



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்

MANONMANIAM SUNDARANAR UNIVERSITY

**SYLLABUS FOR ADVANCED DIPLOMA IN OPERATING ROOM
TECHNOLOGY PROGRAM OFFERED THROUGH DIRECTORATE OF VOCATIONAL
EDUCATION (COMMUNITY COLLEGES AND VOCATIONAL SKILL DEVELOPMENT
CENTRES) FROM 2019 - 2020**



கல்விசார் நிலைக்குழுக் கூட்டம்

**MEETING OF THE STANDING COMMITTEE ON
ACADEMIC AFFAIRS HELD ON FRIDAY
THE 28th JUNE 2019**

ADVANCED DIPLOMA IN OPERATING ROOM TECHNOLOGY

மேம்பட்ட அறுவை அரங்க தொழில்நுட்பப் பட்டயம்

SCHEME OF EXAMINATION

Subject code	Title of the Course	Credit	Hours	Passing Maximum
Semester I				
C19OY11/E19OY01	Anatomy and physiology	6	90	40/100
C19OY12/E19OY02	Fundamentals of Health	6	90	40/100
C19OY13/E19OY03	Medical Surgical Care- I	6	90	40/100
C19CE10/E19CE10	Communicative English	6	90	40/100
C19OYP1/E19OYP1	Practical – I - Basic Care	4	120	40/100
Semester II				
C19OY21/E19OY04	Operation Theatre Techniques	6	90	40/100
C19OY22/E19OY05	Medical Surgical Care- II	6	90	40/100
C19LS23/E19LS05	Life Skill	6	90	40/100
C19OYP2/E19OYP2	Practical II- Positioning and Operating Room Procedures	4	120	40/100
C19OYPW/E19OYPW	Project– Advanced Care	10	150	40/100
Semester III				
C19OY31/E19OY06	Pharmacology	6	90	40/100
C19OY32/E19OY07	Microbiology	6	90	40/100
C19OY33/E19OY08	General Surgical Procedures	6	90	40/100
C19OYP3/E19OYP3	Practical III-Internship Assisting Minor operations	4	120	40/100
C19OYP4/E19OYP4	Practical IV-Project work – Minor operative procedures	4	120	40/100
Semester IV				
C19OY41/E19OY09	Sociology and Patient Rights to Ethics	6	90	40/100
C19OY42/E19OY10	Anaesthesia	6	90	40/100
C19OY43/E19OY11	Perioperative Care	6	90	40/100
C19OYP5/E19OYP5	Practical V – Assisting Major operations	4	120	40/100
C19OYIP/E19OYIP	Project/Internship	12	180	40/100

Eligibility for admission: Pass in 12thstd Examination conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamil Nadu or any other equivalent Examination.

Examination: Passing minimum for each Course is 40%.classification will be done on the basis percentage marks of the total marks obtained in all of the Courses and given as below:

40% but less than 50%	-	Third Class
50%but less than 60%	-	Second Class
60% and above	-	First Class

Theory Paper

Internal Marks-25

External Marks-75

SYLLABUS

SEMESTER I

Course I	:	Anatomy and physiology
Course II	:	Fundamentals of Health
Course III	:	Medical Surgical Care- I
Course IV	:	Communicative English
Course V	:	Practical I - Basic Care

SEMESTER II

Course VI	:	Operation Theatre Techniques
Course VII	:	Medical Surgical Care- II
Course VIII	:	Life Skill
Course IX	:	Practical II- Positioning and Operating Room Procedures
Course X	:	Project- Advanced Care

SEMESTER III

Course XI	:	Pharmacology
Course XII	:	Microbiology
Course XIII	:	General Surgical Procedures
Course XIV	:	Practical III - Internship Assisting Minor operations
Course XV	:	Practical IV-Project work-Minor operative procedures

SEMESTER IV

Course XVI	:	Sociology and Patient Rights to Ethics
Course XVII	:	Anaesthesia
Course XVIII	:	Perioperative Care
Course XIX	:	Practical V – Assisting Major operations
Course XX	:	Project/Internship

***(Semester Pattern for Community College Only)**

Program Objectives

1. Communicate effectively using interpersonal skills
2. Utilize evidence-based interventions to achieve optimal adaptation.
3. Safely perform and prioritize appropriate PRE-INTRA-POST OPERATIVE care skills.
4. Employ appropriate thinking to safely and effectively PERFORM OPERATIVE ROOM TECHNIQUES

SEMESTER I

COURSE I

(C19OY11/E19OY01)ANATOMY AND PHYSIOLOGY

Objectives

- To equip the students with the knowledge of human body system.
- To understand the function of various structure of the human body

Unit I

18 Hrs

The Body as a whole - Cavities of the body and their Contents – Cells and tissues – Organs and systems – The skin and appendages – Structure and function of skeleton - The skull – The Vertebral column – The Thorax – Bones of the upper limbs – Bones of the lower limbs. Joints and Muscles – Types of Joints – The muscular system.

UNIT II

18 Hrs

Nervous system– The brain – cerebrum – cerebellum – mid brain – brain stem – pons and Medulla. The spinal cord and spinal nerves - The meninges and cerebrospinal fluid. The eye – The ear – The sense of smell and taste

UNIT III

18 Hrs

Circulatory system -The blood – Blood clotting – Blood grouping – Cross matching - The heart and blood vessels. Respiratory System-The nose pharynx – larynx – The Trachea – Bronchi – Lungs.

Unit IV

18 Hrs

Digestive System – structure and functions-The mouth – pharynx – Oesophagus – The stomach – small intestine- large intestine –rectum-anus-liver-salivary glands-gall bladder-pancreas

Unit V

18 Hrs

The Endocrine glands – Thyroid – Parathyroid – Pituitary – Adrenal gland. Male and female reproductive system,– The Excretory system –Kidneys-ureters-urinary bladder-urethra- Urine and micturation - water and salt balance

Reference Books

1. Text Book for health workers – A.M Chalkey Vols I & II
2. Manual for Health worker –Ministry of Health and Family welfare
3. Bruce Forciea (2012) An text of Human Anatomy and Physiology, Creative Commons Attribution
4. Eldon D Enger, FC Ross and DB Bailey (2005) Concepts in Biology, (11thEdn), TMH
5. Tortora Gerald J and Bryan Derrick son (2014) Anatomy and Physiology, India Edn, Wiley India

COURSE II

(C19OY12/E19OY02)Fundamentals of Health

Objectives

- The student know about assessment of patient, care of patient ,basic needs and maintaining health.
- To improve skill to taking care of patient

Unit I

18 Hrs

Vital signs-temperature-pulse-respiration – Blood pressure – weight checking – height checking – history taking –methods of physical examination-types of positions-preparation for diagnostic procedures

Unit II

18 Hrs

Drugs-uses-sources-classification of drugs-routes of administration-oral medication – injection – infusion – hot and cold application –dressing of a wound-- Types of record – types of Reports.

Unit III

18 Hrs

Hand washing technique – use of gloves – use of masks in medical asepsis - mask – gloves – gowns for surgical use – surgical hand scrub – handling the sterile articles-admission of patient - discharge of patient-death care.

Unit IV

18 Hrs

Care of the skin – Care of the hair –pediculosis treatment Care of the mouth – Care of pressure sore – meeting eliminational needs –urine test-collection of specimen- bed making - Use of comfort device.

Unit V

18 Hrs

Enema – bowel wash – oxygen administration – ryles tube feeding – Catheterization-nebulizer-assisting for vaginal –rectal examination-lumbar puncture-pre and post operative care.

Reference Books

1. Text Book for health workers – A.M Chalkey Vols I & II
2. Introduction to patients care – Dugas
3. Manual for Nursing procedures – Teluram
4. Manual for Health worker –Ministry of Health and Family welfare
5. Potter and Perry's Fundamentals of Nursing: Second South Asia Edition4
6. Principles & Practice Of Nursing Vol 1 Nursing Arts Procedures Sr.Nancy 7th Edition MLA Citation (style guide)
5. Potter, Patricia Ann., Anne Griffin Perry, Amy Hall, and Patricia A. Stockert. Fundamentals of Nursing.Ninth edition. St. Louis, Mo.: Mosby Elsevier, 2017. Print.

COURSE III

(C19OY13/E19OY03)Medical and Surgical Care - I

OBJECTIVES

- To Have a Knowledge Of Medical Surgical Nursing
- To Understand The Various Problems And Treatment Of Diseases

Unit I

18 Hrs

Skeletal system including, diseases, risk factors, signs and symptoms and diagnosis and treatment-Osteoarthritis.Rheumatoid Arthritis-Arthritis- Lateral Epicondylitis (Tennis Elbow) Medial Epicondylitis (Golfer's or Baseball Elbow)-Carpal Tunnel Syndrome-Ligament Injuries to the Knee.

Unit II

18 Hrs

Cardiology system including diseases, risk factors, signs and symptoms, and diagnosis and treatment-Coronary artery disease-Atherosclerosis-Hypertension.-Heart failure-Aortic aneurysm-Myocarditis and pericarditis.-Cardiomyopathy.

Unit III

18 Hrs

Urinary system including diseases, risk factors, signs and symptoms ,and diagnosis and treatment-Bladder Cancer-Bladder Diseases.-Interstitial Cystitis-ureter and Kidney Stones-Urinary Incontinence.

Unit IV

18 Hrs

Respiratory system including diseases, risk factors, signs and symptoms and diagnosis and treatment-Chronic Obstructive Pulmonary Disease (COPD) - Chronic Bronchitis. -Emphysema-asthma-Lung Cancer-Bronchiectasis. -Pneumonia.-Pleural Effusion.

Unit V

18 Hrs

Reproductive diseases, risk factors, signs and symptoms, diagnosis and treatment-Prostate cancer - Breast cancer - Ovarian cancer - Cancer of the ovary-infertility-fibroid uterus-Uterine cancer - Testicular cancer.

Reference

- Brunner, vol 1,vol2,A text book of medical and surgical nursing.
- Hinkle, J.L. & Cheever, K.H. (2018). Brunner &Suddarth's Textbook of Medical-Surgical Nursing (14th ed.). Philadelphia: Wolters Kluwer.
- Ignatavicius, D.D., Workman, M.L., & Rebar, C.R. (2018). Medical-Surgical Nursing: Concepts for Interprofessional Collaborative Care (9th ed.). St. Louis: Elsevier.
- LeMone, P., Burke, K.M., Bauldoff, G., &Gubrud, P. (2015). Medical-Surgical Nursing: Critical Reasoning in Patient Care (6th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Clinical Problems (10th ed.). St. Louis: Elsevier.

COURSE IV

(C19CE10/E19CE10)Communicative English

1. Basic Grammar:

- a. Review of grammar
- b. Remedial study of grammar
- c. Simple sentence
- d. Word passive voice etc.

2. Bubbling Vocabulary:

- a. Synonyms
- b. Antonyms
- c. One – word Institution

3. Reading and Understanding English

- a. Comprehension passage
- b. Précis – writing
- c. Developing a story from hints.

4. Writing English

- a. Writing Business letters.
- b. Paragraph writing
- c. Essay writing
- d. Dialogue writing

5. Speaking English

- a. Expressions used under different circumstances
- b. Phonetics

Reference

1. V.H.Baskaran – “English Made Easy”
2. V.H.Baskaran – “English Composition Made Easy”
(Shakespeare Institute of English Studies, Chennai)
3. N.Krishnaswamy – “Teaching English Grammar”
(T.R.Publication, Chennai)
4. “Life Skill” – P.Ravi, S.Prabakar and T.TamzilChelvam,M.S.University,
Tirunelveli.

Course V
Practical I
(C19OYP1/E19OYP1)**Basic Care**

- | | |
|----------------------------|------------------------------------|
| a) The surgical team | g) Glass ware |
| b) Prevention of infection | h) Drugs and solutions |
| c) Hazards | i) Linen |
| d) Personal attitude | j) Admission of patient to theatre |
| e) Equipment | k) Draping |
| f) Rubber goods | l) Care of specimen |

SEMESTER II
COURSE VI
(C19OY21/E19OY04)**Operating Room Techniques**

Objectives

- The student gain more skill about Operating Room Techniques

Unit I **18 Hrs**
Infection and Control Including Asepsis And disinfection, Hospital Waste Management. Role Of Nurses In Infection control-surgical hand washing, mask, gown, glove using techniques

Unit II **18 Hrs**
Responsibility of scrub person and circulating person General operative procedures equipments and uses-laparotomy, minor set, major set, gynaecological ,orthopaedic ,thoracic instruments

Unit III **18 Hrs**
Blood transfusion-Antigen antibody reactions ,hypersensitivity-Sutures-types-needles-types-blades –haemostatic agents.

Unit IV **18 Hrs**
Pre operative check list informed consent-Patient identification –safe surgery check list – allergy- any infectious disease-site marking-surgical count-Handling sterile equipment and autoclave

Unit V **18 Hrs**
Management of emergency equipment-Oxygen cylinder-suction apparatus-diathermy-defibrillator-positioning and safety measures-equipment know how and maintenance of operating table-dome light-scopes

Reference

- MV. Rammanama , A text book of microbiology for B.sc (nursing)
- Brunnervol1 Vol2 Medical and surgical Nursing
- LeMone, P., Burke, K.M., Bauldoff, G., &Gubrud, P. (2015). Medical-Surgical Nursing: Critical Reasoning in Patient Care (6th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Cli
- college of Operating Department Practitioners (2009) Standards, recommendations and guidance for mentors and practice
- Placements: Supporting pre-registration education in Operating Department Practice provision: London CODPnical Problems (10th ed.). St. Louis: Elsevier.

Course VII
(C19OY22/E19OY05)Medical and Surgical Care II

Objectives

- To Have a Knowledge Of Medical Surgical Nursing
- To Understand The Various Problems And Treatment Of Diseases

Unit I

18 Hrs

Gastro Intestinal System Including Diseases And Risk Factors, Signs And Symptoms, Diagnosis And Treatment-Gastroesophageal reflux disease-Appendicitis-peptic ulcer-intestinal obstruction-hernia

Unit II

18 Hrs

Brain System Including Sign And System Diagnosis Treatment-Alzheimer's disease. Bell's palsy-cerebral palsy.-Epilepsy. -Motor neurone disease (MND) - Multiple sclerosis (MS) -Parkinson's disease.

Unit III

18 Hrs

Immune system disease including care and treatment-Systemic lupus erythematosus (lupus)-)-Multiple myeloma-Type 1 diabetes mellitus-Guillain-Barre syndrome-hodgkin lymphoma

Unit IV

18 Hrs

ENT-diseases and surgeries -Dizziness-Dysphagia (Difficulty Swallowing)Ear Infection (Otitis Media-Hearing Loss-Hoarseness-Meniere's-Nosebleeding--Sleep Apnea-Snoring-Tinnitus (Ringing in the Ears)-TMJ Pain (Temporo-Mandibular Joint)-Tonsils & Adenoid Problems

Unit V

18 Hrs

EYE -diseases and surgeries Age-related Macular Degeneration (AMD) of eye-. - Cataract-Diabetic Eye Disease-Glaucoma.-Dry Eye.-Low Vision-Ectropion. - Entropion.-Facial palsy-Trichiasis.

Reference

- Brunnervoll Vol2 Medical and surgical Nursing
- Hinkle, J.L. & Cheever, K.H. (2018). Brunner &Suddarth's Textbook of Medical-Surgical Nursing (14th ed.). Philadelphia: Wolters Kluwer.
- Ignatavicius, D.D., Workman, M.L., & Rebar, C.R. (2018). Medical-Surgical Nursing: Concepts for Interprofessional Collaborative Care (9th ed.). St. Louis: Elsevier.
- LeMone, P., Burke, K.M., Bauldoff, G., &Gubrud, P. (2015). Medical-Surgical Nursing: Critical Reasoning in Patient Care (6th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Clinical Problems (10th ed.). St. Louis: Elsevier.

COURSE VIII

(C19LS23/E19LS05)**Life Skill**

I Life Coping or adjustment

- (a) External and internal influence in one's life
- (b) Process of coping or adjustment
- (c) Coping with physical change and sexuality
- (d) Coping with stress, shyness, fear, anger far live and criticism.

II Attitude

- (a) Attitude
- (b) Self acceptance, self – esteem and self actualization
- (c) Positive thinking

III Problem Solving

- (a) Goal Setting
- (b) Decision Making
- (c) Time Management and stress Management.

IV Computers

- (a) Introduction to Computers
- (b) M.S.Office
- (c) Power Point

V Internet

- (a) Introduction to internet
- (b) E – mail
- (c) Browsing

References

- 1) Life Skill Programme course I & II by Dr. Xavier Alphona MCRDCE Publications. R.K.Mutt Road, Chennai – 28
- 2) ஆளுமை பண்பு வளர்த்தல் மற்றும் தகவல் தொடர்பு by M.Selvaraj Community College,Palayamkottai
- 3) “Life Skill” –P.Ravi, S.Prabahar&T.TamilChelvam, M.S. University, Tirunelveli

Course IX

Practical II

(E19OYP2/C19OYP2)Positioning and Operating Room Procedures

- Identification of Instruments and its uses
- Sterilization -Autoclave
- Suture material
- Set up of suction apparatus
- Diathermy
- Responsibility to anaesthetist
- Minor procedures
- Position of patient
- Operating instruments trolley set up
- Assisting for procedures-pre-intra-post
- documentation

Course X

(C19OYPW/E19OYPW)Project

Advanced care

Advanced care in

Sterilization -Autoclave -CSSD

LINEN AND EQUIPMENT SET UP IN STERILE TRAYS

- Set up of suction apparatus
- Diathermy
- Operating instruments trolley set up
- Minor procedures

Semester III
Course XI
(C19OY31/E19OY06)**Pharmacology**

Objectives

- The student know about the indication ,contra indication ,dosage ,side effects of drugs.

Unit I

18 Hrs

Medications used in operating room.Medications actions and side effects-adversereaction

Unit II

18 Hrs

Emergency Drugs –drug calculation-formula-Adrenaline : Mode or administration, dilution, dosage,-Effects, Isoprenaline-Atropine, bicarbonate, calcium, ephedrine, xylocard,-Iontropes : dopamine, dobutamine, amidaron-Aminophylline, hydrocortisone, antihistamlnics, potassium.-Cardlovascular drugs-Antihypertensives-Antiarhythmics-Beta Blockers-Ca - Channel blockers.

Unit III

18 Hrs

Vasodilators - nitroglycerin& sodium nitroprusside- Respiratory system - Bronchodilators-respiratory stimulants -Broncholytic agents -Renal-system-Diuretics,furesemide,mannitol-Obstetrics - oxoytocin,methergin-Miscellaneous - Antibiotics NSAIDS Anticoagulants and Insulin-IV Solutions And Administration

Unit IV

18 Hrs

Atropine, glycopyrrolate-Sedative-anxiolytics-Diazepam, midazolam, phenergan, lorazepam, chlorpromazine,-Trichlopho-Narcotics-Morphine, pethidine, fentanyl, pentazozine-Antiemetics-Metaoclopramide,ondanseteron, dexamethasone-Antacids-Na citrate, gelusil, mucaine gel.-H2 blockers-Cimetidine, ranitidine, famotidine

Unit V

18 Hrs

Anesthetic drugs and administration-Induction agent-Thiopentone , diazepam, midazolam, ketamine, propofol, etomidate.-Muscle relaxants-Depolarising -suxamethonium,-Non depolarising -pancuronium, vecuronium, atracurium, rocuranium

REFERENCE :

- “Pharmacology For Nurses”, Edition 2, Marline Herbert Aston Nancy dark
- Hinkle, J.L. & Cheever, K.H. (2018). Brunner &Suddarth's Textbook of Medical-Surgical Nursing (14th ed.). Philadelphia: Wolters Kluwer.
- Ignatavicius, D.D., Workman, M.L., & Rebar, C.R. (2018). Medical-Surgical Nursing: Concepts for Interprofessional Collaborative Care (9th ed.). St. Louis: Elsevier.
- LeMone, P., Burke, K.M., Bauldoff, G., &Gubrud, P. (2015). Medical-Surgical Nursing: Critical Reasoning in Patient Care (6th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Clinical Problems (10th ed.). St. Louis: Elsevier.

Course XII

(C19OY32/E19OY07)Microbiology

Objectives

- To discuss the characteristics of micro organisms including bacterial,viral and fungal infections
- To discuss the measures to control the spread of micro organisms

Unit I

18 Hrs

Micro organism – classification of micro organism and their characteristics – pathogenic micro organism – paths of infection – portal of entry – portal of exit.

Unit II

18 Hrs

Disinfection – methods of disinfection – sterilization – methods of sterilization – natural agents - physical agents – chemical agents.

Unit III

18 Hrs

collection specimen – blood, urine, stool, sputum, discharges.

Unit IV

18 Hrs

Immunity – types of immunity – Immunoglobulin, vaccines, types of vaccines, national immunization schedule.

Unit V

18 Hrs

Food poisoning – blood borne infection – microscope – types of microscope – uses of microscope.

Reference Books

- Text Book for health workers – A.M Chalkey Vols I&II
- ALCAMO EDWARD,I. FUNDAMENTALS OF MICROBIOLOGY JONES & BARTLETT 6TH
- ALEXANDER ,S.K. LABORATORY EXERCISES IN ORGANISMAL AND MOLECULAR MICROBIOLOGY MC GRAW HILL 1ST
- ANANTHANARAYAN,R. TEXTBOOK OF MICROBIOLOGY ORIENT LONGMAN 6TH
- ANANTHANARAYAN,R. TEXT BOOK OF MICROBIOLOGY ORIENT LONGMAN 2ND

Course XIII
(C19OY33/E19OY08)**General surgical procedures**

Objectives

- The student gain more skill about surgical procedures

Unit I

18 Hrs

Laparotomy and gynaecology procedures-Adhesiolysis-Cervical (Cone) Biopsy
Colporrhaphy-Colposcopy-Dilation and Curettage (D&C) Endometrial Ablation-
Endometrial or Uterine Biopsy-Hysterectomy-Tubal ligation

Unit II

18 Hrs

Surgical management of Fracture-Joint Replacement Procedures-knee-total hip
replacement-Revision Joint Surgery. -Debridement--Bone Fusion-External and
Internal Fixation of Bones.-Osteotomy.

Unit III

18 Hrs

Arthroscopy-laryngoscopy-Bronchoscopy- lungs-Colonoscopy and sigmoidoscopy:
large intestine.-Cystoscopy-ureteroscopy.-Laparoscopy: abdomen or pelvis-Upper
gastrointestinal endoscopy: oesophagus and stomach.

Unit IV

18 Hrs

Minor surgeries

Tonsillectomy-nasalpoly premoval-Breast Biopsy.-Burn Excision/Debridement.-
Cataract Surgery.-Caesarean Section.-Circumcision.-Dental Restoration.Gastric
Bypass.

Unit V

18 Hrs

Major surgeries- organ transplant-Craniotomy-removal of a brain tumour,
nephrectomy-open-heart surgery-valve replacement-thoracotomy-pneumonectomy

REFERENCE:

- BRUNNER-Medical Surgical Nursing
- Hinkle, J.L. & Cheever, K.H. (2018). Brunner & Suddarth's Textbook of Medical-Surgical Nursing (14th ed.). Philadelphia: Wolters Kluwer.
- Ignatavicius, D.D., Workman, M.L., & Rebar, C.R. (2018). Medical-Surgical Nursing: Concepts for Interprofessional Collaborative Care (9th ed.). St. Louis: Elsevier.
- LeMone, P., Burke, K.M., Bauldoff, G., &Gubrud, P. (2015). Medical-Surgical Nursing: Critical Reasoning in Patient Care (6th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Clinical Problems (10th ed.). St. Louis: Elsevier.

Course XIV
(C19OYP3/E19OYP3) Practical III-Internship

ASSISTING FOR MINOR OPERATIONS

- INCISION AND DRAINAGE
- DILATATION AND CURETTAGE
- APPENDICECTOMY
- INGUINAL HERNIA REPAIR
- TONSILLECTOMY
- CIRCUMCISION

Course XV
(C19OYP4/E19OYP4) Practical IV
PROJECT WORK- Minor Operative Procedures

Assessment of patient

- Assisting for Anaesthesia
- Pre Operative Care
- Intra operative assessment
- Immediate Post Operative Care

SEMESTER IV

Course XVI

(C19OY41/E19OY09)Sociology and Patient Rights to Ethics

Objectives

- The student know about the patient rights and take care of patient
- Understand follow up the medical ethics and social behaviour.

Unit I

18 Hrs

Understanding and learning about community-groups-the family-urban and rural administrative pattern- corporation, .panchayats and co-operatives -social processes-social controls

Unit II

18 Hrs

Social stratification and leadership patterns in the community-the community and factor affecting its health and development-gathering information about our communities

Unit III

18 Hrs

Patients Rights , Public Health Ethics Detail Document About Patient Ethics - Common Principles of Nursing

Unit IV

18 Hrs

Medical ethics - Definition - Goal - Scope-Code of conduct - Introduction -Basic principles of medical ethics – Confidentiality-Malpractice and negligence - Rational and irrational drug therapy

UNIT V

18 Hrs

Autonomy and informed consent - Right of patient- Care of the terminally ill-Organ transplantation

References

- Text Book for health workers – A.M Chalkey Vols I&II
- Herton and Hunt, Sociology, Mcgraw - Hill International, Singapore 1984
- Abrahamson Mark, Urban Sociology, Prentice-Hall Inc, Englewood Cliffs, N.J., 1980
- Brunner, vol 1,vol 2,A text book of medical and surgical nursing.
- Sherwin, Susan (1992). No Longer Patient: Feminist Ethics and Health Care. Philadelphia: Temple University Press. OCLC 23654449.
- Veatch, Robert M. (1988). A Theory of Medical Ethics. New York: Basic Books. OCLC 7739374.

Course XVII
(C19OY42/E19OY10)**Anaesthesia**

Objectives:

- The student gain more skill about Anaesthetic Procedure

Unit I

18 Hrs

PRE-OP PREPARATION:

Pre anaesthetic assessment~ History – past history - disease - Surgery and personal history - Smoking / alcohol General physical assessment, systemic-examination – CVS, RS, CNS

INTRODUCTION TO GENERAL ANAESTHESIA

INHALATIONAL GASES-Gases - O₂, N₂O, Air-Agents - Ether-, Halothane, Isoflurane, Saevoflurane, Desflurane

REVERSAL AGENTS-Neostigmine, Glycopyrrolate, Atropine, Nalorphine, Naloxone, Flumazenil (Diazepam)

Unit II

18 Hrs

ANAESTHESIA MACHINE

Hanger And Yoke System-Cylinder Pressure Gauge- Pressure Regulator Flow Meter Assembly-Vapourizers - Types, Hazards, Maintenance, Filling And Draining, Etc.- Face Masks & Airway Laryngoscopes- Types, Sizes Endotracheal Tubes - Types, Sizes.- Cuff System-Fixing, Removing And Inflating Cuff, Checking Tube Position Complications MONITORING-ECG-SP0₂-TEMPERATURE-IBP-CVP-PA-PRESSURE-LA Pressure

Unit III

18 Hrs

Bio Medical engineering of Trouble sorting Management, care of cleaning LOCAL ANAESTHETICS-Xylocaine, Preparation, Local – Bupivacaine - Topical, Prilocaine-jelly, Emla - Ointment, Etidocaine.Ropivacaine

Unit IV

18 Hrs

Principles Of Anaesthesia -Basic Anesthetic Techniques PRE - ANAESTHETIC ORDERS:-Patient - Informed consent- Npo guidelines - Premedication - advantages, drugs used- Special instructions - if any Machine - Checking the machine-O₂, N₂O, suction apparatus-Laryngoscops-ET tubes, airways- Things for IV accessibility

UNIT V

18 Hrs

-INTRAOPERATIVE MANAGEMENT

Confirm the identification of the patient- Monitoring - minimum-Noninvasive& Invasive monitoring- Induction - drugs used- Endotracheal intubation Maintenance of anaesthesia- Positioning of the patient-Blood / fluid & electrolyte balance-Reversal from anaesthesia - drugs used- Transferring the patient-Recovery room – set up and things needed Other monitoring systems

REFERENCES

1. Anesthesia Equipment; Principles and Applications By Eisenkraft and Ehrenworth – 2nd Edition(2013) Elsevier
2. ClinicalAnesthesiaBy Barash, Cullen and Stoelting – 7th Edition (2013) Lippincott Williams & Wilkins
3. Morgan and Mikhail's Clinical AnesthesiologyBy Butterworth, Mackey and Wasnick –5th Edition(2013) McGraw Hill
4. MGH Textbook of Anesthetic EquipmentBy Sandberg, Urman and Ehrenfeld – 1st Edition(2011) Elsevier
5. NurseAnesthesia By Nagelhout –6th Editio(2016) Elsevier

Course XVIII
(C19OY43/E19OY11)**Perioperative Care**

Objectives

- To know the student about how to care the perioperative care patient.
- To gain more knowledge about perioperative procedure

Unit I

18 Hrs

Preoperative care-information to operating room-skin preparation-blood arrangements-lab investigations-Assessment, planning, implementation and evaluation of care.

Unit II

18 Hrs

Assessment, planning, implementation and evaluation of care on the day of surgery-informed consent-Patient identification –safe surgery check list – allergy-any infectious disease-pre op medications

UNIT III

18 Hrs

General surgical procedures- –orthopaedics-paediatric –gynaecological-obstretical-eye-ENT-thoracic surgery- Instruments in emergency trolley.

Unit IV

18 Hrs

Common surgical terminologies-ectomy, otomy, ostomy Types of anaesthesia-.general-local-spinal-types of surgery- Elective surgery –Emergency-minor-major-reconstructive surgery

Unit V

18 Hrs

Post operative care- immediate and special care-Prevention of post operative complications --shock- Bleeding-Wound infection-Deep vein thrombosis-Pulmonary embolism-.Urinary retention.-.Reaction to anaesthesia.

Reference

- Brunner, vol 1,vol 2,A text book of medical and surgical nursing.
- Benner, P (1984) From novice to expert: Excellence and power in clinical nursing practice. Menlo Park: Addison-Wesley,
- college of Operating Department Practitioners (2009) Standards, recommendations and guidance for mentors and practice
- placements: Supporting pre-registration education in Operating Department Practice provision: London CODP
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- Hinkle, J.L. & Cheever, K.H. (2018). Brunner &Suddarth's Textbook of Medical-Surgical Nursing (14th ed.). Philadelphia: Wolters Kluwer.
- Lewis, S.L., Dirksen, S.R., Heitkemper, M.M., Bucher, L., & Harding, M.M. (2017). Medical-Surgical Nursing: Assessment and Management of Clinical Problems (10th ed.). St. Louis: Elsevier.

Course XIX

Practical V

(C19OYP5/E19OYP5)**ASSISTING MAJOR OPERATIONS**

- LSCS
- LAPAROTOMY
- THYROIDECTOMY
- HYSTRECTOMY
- OPEN REDUCTION AND INTERNAL FIXATION

Course XX

(C19OYIP/E19OYIP)**Project/Internship**

INCLUDING

- Aseptic Techniques
- Ventilation
- Mechanical Intubation
- Safety Measures
- Documentation
