

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்

MANONMANIAM SUNDARANAR UNIVERSITY

SYLLABUS FOR DIPLOMA IN OPERATING ROOM ASSISTANCE 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

Program Code: 5270

DIPLOMA IN OPERATING ROOM ASSISTANCE

அறுவை அரங்க உதவியியல் பட்டயம்

SCHEME OF EXAMINATION

Subject code	Title of Course	Credit	Hours	Passing Minimum
SEMESTER I				
C19OR11/E19OR01	Anatomy and Physiology	6	90	40/100
C19OR12/E19OR02	Fundamentals of Health	6	90	40/100
C19OR13/E19OR03	Medical and Surgical Care I	6	90	40/100
C19CE10/E19CE10	Communicative English	6	90	40/100
C190RP1/E190RP1	Practical I – Basic Care	4	120	40/100
SEMESTER II				
C190R21/E190R04	Operating Room Technique	6	90	40/100
C19OR22/E19OR05	Medical and Surgical Care II	6	90	40/100
C19LS23/E19LS05	Life Skill	6	90	40/100
C19ORP2/E19ORP2	Practical II – Positioning and Operating Room Procedures	4	120	40/100
C19ORPW/E19ORPW	Project - Advanced Care	10	150	40/100

Eligibility for admission: Pass in 12th Std. Examination Conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamilnadu (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 and Surgical Care I
Course IV : Communicative English
Course V : Practical I – Basic Care

SEMESTER II

Course VI : Operating Room Technique Course VII : Medical and Surgical Care II

Course VIII: Life skill

Course IX : Practical II - Positioning and Operating Room Procedures

Course X : Project - Advanced Care

*(Semester Pattern for Community College Only)

Program Objectives

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

SEMESTER I COURSE I

(C19OR11/E19OR01) 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

(C19OR12/E19OR02)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 ChalkeyVols 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

COURSE III

(C19OR13/E19OR03)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 Cystitisureter 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 Inter professional 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 work 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"
- V.H.Baskaran "English Composition Made Easy"
 (Shakespeare Institute of English Studies, Chennai)
- N.Krishnaswamy "Teaching English Grammar"
 (T.R.Publication, Chennai)
- "Life Skill" P.Ravi, S.Prabakar and T.TamzilChelvam,
 M.S.University, Tirunelveli.

Course V

Practical I

(C19ORP1/E19ORP1)Basic Care

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

SEMESTER II COURSE VI

(C19OR21/E19OR04)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 apparatusdiathermy-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 CODP clinical Problems (10th ed.). St. Louis: Elsevier.

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

- Brunnervol1 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) ஆளுமைபண்புவளர்த்தல் 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

(C19ORP2/E19ORP2)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

(C19ORPW/E19ORPW)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
