



Goa University
P.O.Goa University, Taleigao Plateau Goa 403 206, India
Syllabus of Bachelor of Science in Nursing
Offered at the Colleges under OC-30
w.e.f.From the Academic Year 2005-2006

A brief description of the course

Purpose

The aim of the undergraduate nursing program is to: Prepare graduates to:-

- (1) assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative services.
- 2) make independent decisions in any nursing situations
- 3) Protect the rights of individuals and facilitate both individuals and groups in pursuit of health,
- 4) function independently in hospital, community nursing services, and conduct research studies in the areas of nursing practice.
- 5) assume the role of care, teacher, supervisor, and manager in a clinical/public health setting.

Prerequisites:-

A candidate admitted for the Bachelor of Science in Nursing Course:

- (a) Should be not less than 17 years of age.
- (b) Should have passed the Higher Secondary School Certificate (10+2) Science Examination or its equivalent with a minimum of 45% marks in the aggregate in the subjects of Physics, Chemistry, Biology and English.

Requirements:-

To be eligible for the award of the degree of the Bachelor of Science in Nursing a candidate shall have to

- a) Pass the four annual examinations i.e. 1st, 2nd, 3rd, & 4th Year with a minimum of 50% in internal and external assessments in each theory and practical subjects
- b) Complete the assigned project work.
- c) Complete the required hours of laboratory, practical work and internship.

Number of years, Scheme of Hours and Scheme of Examination
Scheme of Hours

| Subject | Theory (In Hrs) (Class and Lab) | Practical (In Hrs) (Clinical) | In Hours |
|------------------------------|------------------------------------|----------------------------------|------------|
| <i>First year</i> | | | |
| 1. English | 60 | | |
| 2. Anatomy | 60 | | |
| 3. Physiology | 60 | | |
| 4. Nutrition | 60 | | |
| 5. Biochemistry | 30 | | |
| 6. Nursing Foundations | 265+200 | 450 | |
| 7. Psychology | 60 | | |
| 8. Microbiology | 60 | | |
| 9. Introduction to Computers | 45 | | |
| 10. Hindi/Regional Language | 30 | | |
| 11. Library work/ Self Study | | | 50 |
| 12. Co-curricular Activities | | | 50 |
| Total Hours. | 930 | 450 | 100 |
| Total hours = 1480 | | | |

Second year

| | | | |
|---|------------|------------|-----------|
| 1. Sociology | 60 | | |
| 2. Pharmacology | 45 | | |
| 3. Pathology & | 30 | | |
| 4. Genetics | 15 | | |
| 5. Medical-Surgical Nursing (Adult including Geriatric)-I | 210 | 720 | |
| 6. Community Health Nursing-I | 90 | 135 | |
| 7. Communication and Educational Technology | 60+30 | | |
| 8. Library work/ Self Study | | | 50 |
| 9. Co-curricular activities | | | 35 |
| Total Hours | 540 | 855 | 85 |
| Total hours – 1480 hrs | | | |

3rd year

| | | | |
|---|------------|------------|------------|
| 1. Medical-Surgical Nursing (Adult including geriatrics)-II | 120 | 270 | |
| 2. Child Health Nursing | 90 | 270 | |
| 3. Mental Health Nursing | 90 | 270 | |
| 4. Midwifery and Obstetrical nursing | 90 | 180 | |
| 5. Library work/Self study | | | 50 |
| 6. Co-curricular activities | | | 50 |
| Total Hours | 390 | 990 | 100 |
| Total hours = 1480 hrs | | | |

Fourth year

| | | | |
|--------------------------------------|----|-----|--|
| 1. Midwifery and Obstetrical Nursing | | 180 | |
| 2. Community Health Nursing – II | 90 | 135 | |

| | | | |
|--|------------|--|--|
| 3. Nursing Research & Statistics | 45 | * | |
| 4. Management of Nursing Service and Education | 60+30 | | |
| Total Hours | 225 | 315 | |
| Total hours = 540 hrs | | * Project work to be carried out during internship | |

| Internship (Integrated Practice) | Theory | Practical (In hrs) | In weeks |
|---|--------|--------------------|-----------|
| 1. Midwifery and Obstetrical Nursing | | 240 | 5 |
| 2. Community Health Nursing – II | | 195 | 4 |
| 3. Medical Surgical Nursing (Adult and Geriatric) | | 430 | 9 |
| 4. Child Health | | 145 | 3 |
| 5. Mental Health | | 95 | 2 |
| 6. Research Project | | 45 | 1 |
| Total Hours | | 1150 | 24 |
| Total = 1690 hours | | | |

Scheme of Examination

| Subject | Assessment | | | |
|--------------------------------|------------|----------|----------|-------|
| | Hours | Internal | External | Total |
| First Year | | | | |
| Theory | | | | |
| 1. Anatomy & Physiology | 3 | 25 | 75 | 100 |
| 2. Nutrition and Biochemistry | 3 | 25 | 75 | 100 |
| 3. Nursing Foundations | 3 | 25 | 75 | 100 |
| 4. Psychology | 3 | 25 | 75 | 100 |
| 5. Microbiology | 3 | 25 | 75 | 100 |
| 6. English | 3 | 25 | 75 | 100 |
| 7. Introduction to Computer | | 25 | 75 | 100 |
| Practical and Viva Voce | | | | |
| 1. Nursing Foundations | | 100 | 100 | 200 |

Second Year

| | | | | |
|--|---|-----|-----|-----|
| Theory | | | | |
| 8. Sociology | 3 | 25 | 75 | 100 |
| 9. Medical-Surgical Nursing – I | 3 | 25 | 75 | 100 |
| 10. Pharmacology, Pathology, Genetics | 3 | 25 | 75 | 100 |
| 11. Community Health Nursing – I | 3 | 25 | 75 | 100 |
| 12. Communication and Educational Technology | 3 | 25 | 75 | 100 |
| Practical & Viva Voce | | | | |
| 2. Medical-Surgical Nursing - I | | 100 | 100 | 200 |

Third Year

| | | | | |
|-----------------------------------|---|----|----|-----|
| Theory | | | | |
| 13. Medical-Surgical Nursing – II | 3 | 25 | 75 | 100 |
| 14. Child Health Nursing | 3 | 25 | 75 | 100 |
| 15. Mental Health Nursing | 3 | 25 | 75 | 100 |
| Practical & Viva Voce | | | | |
| 3. Medical-Surgical Nursing – II | | 50 | 50 | 100 |
| 4. Child Health Nursing | | 50 | 50 | 100 |
| 5. Mental Health Nursing | | 50 | 50 | 100 |

Fourth year

| | | | | |
|--|---|----|----|-----|
| Theory | | | | |
| 16. Midwifery and Obstetrical Nursing | 3 | 25 | 75 | 100 |
| 17. Community Health Nursing | 3 | 25 | 75 | 100 |
| 18. Nursing Research & Statistics | 3 | 25 | 75 | 100 |
| 19. Management of Nursing Services and Education | 3 | 25 | 75 | 100 |
| Practical & Viva Voce | | | | |
| 6. Midwifery and Obstetrical Nursing | 3 | 50 | 50 | 100 |
| 7. Community Health Nursing | 3 | 50 | 50 | 100 |

Note:

1. Anatomy and Physiology Question paper will consist of Section I – Anatomy of 37 marks and Section II – Physiology of 38 marks.
2. Nutrition and Biochemistry Question paper will consist of Section I – Nutrition of 45 marks and Section II – Biochemistry of 30 marks.
3. Introduction to Computer theory and practical final examination will be conducted as a college examination and the marks will be sent to the University for Inclusion in the mark sheet.
4. Pharmacology, Pathology, Genetics Question paper will consist of Section I – Pharmacology with 38 marks, Section II – Pathology with 25 marks and Section III – Genetics of 12 marks.
5. Nursing Research & Statistics Question paper will consist of Section I – Nursing Research of 50 marks and Section II – Statistics of 25 marks.

Practical Component

Students undergo practical training in hospitals and community areas from the first year onwards

Research Project:-

Students are required to conduct a research project in the 4th year

English

Placement – First Year
hours

Time: Theory – 60

Course Description: The Course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experiences.

Content

Unit I **10**
Hours

- Review of Grammar
- Remedial study of Grammar
- Building Vocabulary
- Phonetics
- Public Speaking

Unit II **30**
Hours

- Read and comprehend prescribed course books

Unit III **10**
Hours

- Various forms of composition
 - Letter writing
 - Note taking
 - Précis writing
 - Nurses notes
 - Anecdotal records
 - Diary writing
 - Reports on health problems etc.
 - Resume/CV

Unit IV **6**
Hours

- **Spoken English**
 - Oral report
 - Discussion
 - Debate
 - Telephonic conversation

Unit V **4**
Hours

- **Listening Comprehension**

- ❑ Media, audio, video, speeches, etc.

Textbook Sriraman and Colin Swatridge, Macmillan Prose and Poetry 1st Ed, Macmillan India Limited, Chennai 1989. Lessons included in syllabus:

| # | Lesson No | Lesson Name | Author |
|---|-----------|-----------------------------------|-------------------------|
| 1 | 1 | Letter to a Teacher | Nora Rossi and Tom Cole |
| 2 | 2 | Spoken English and Broken English | G.B.Shaw |
| 3 | 4 | A Snake in the Grass | R.K. Narayan |
| 4 | 5 | The Civilization of Today | C.E.M. Joad |
| 5 | 7 | With the Photographer | Stephen Leacock |
| 6 | 8 | Professions for Women | Virginia Woolf |
| 7 | 10 | The Night the Ghost Got In | James Thurber |
| 8 | 12 | A Cup of Tea | Katherine Mansfield |

Anatomy

Placement – First Year
hours

Time: Theory – 60

Course Description: The course is designed to enable students to acquire knowledge of the normal structure of various human body systems and understand the alterations in anatomical structures in disease and practice of nursing

Content:

Unit I

Introduction to Anatomical terms, organization of the human body **5**
Hours

- Human Cell structure
 - Tissues – Definition, Types, characteristics, classification, location, functions and formation
 - Membranes and glands – classification and structure
- Alteration in disease
Application and implications in nursing

Unit II

The Skeletal System **6**
Hours

- Bones-types, structure, Axial & Appendicular Skeleton,
 - Bone formation and growth
 - Description of bones
 - Joints – classification and structure
- Alteration in diseases
Application and implications in nursing

Unit III

The Muscular System **7**
Hours

- Types and structure of muscles
 - Muscle groups
- Alteration in disease
Application and implications in nursing

Unit IV

The Nervous System **6**
Hours

- Structure of neurologia and neurons
- Somatic Nervous system
 - Structure of brain, spinal chord, cranial nerves, spinal nerves, peripheral nerves

- Autonomic Nervous System- sympathetic, parasympathetic
 - Structure, location
- Alteration in disease
Application and implications in nursing

Unit V

6

Hours

The Sensory Organs

- Structure of skin, eye, ear, nose, tongue, (Auditory and olfactory apparatus)
- Alteration in disease
Application and implications in nursing

Unit VI

Circulatory and lymphatic system

7

Hours

- The Circulatory System
 - Blood- Microscopic structure
 - Structure of Heart
 - Structure of blood vessels-Arterial & Venous System,
 - Circulation: systemic, pulmonary, coronary
 - Lymphatic system
 - Lymphatic vessels and lymph
 - Lymphatic tissues
 - Thymus gland
 - Lymph nodes
 - Spleen
 - Lymphatic nodules
- Alteration in disease
Application and implications in nursing

Unit VII

The Respiratory System

5

Hours

- Structure of the organs of respiration
 - Muscles of respiration: Intercostals and Diaphragm
- Alteration in diseases
Application and implications in nursing

Unit VIII

The Digestive System

6

Hours

- Structure of Alimentary tract and accessory organs of digestion
- Alteration in disease
Application and implications in nursing

Unit IX**The Excretory System (Urinary)****4****Hours**

- Structure and organs of urinary system
 - System: Kidney, ureter, urinary bladder, urethra, structure of skin
- Alteration in disease
Application and implications in nursing

Unit X**The Endocrine System****4****Hours**

- Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands
- Alteration in disease
Application and implications in nursing

Unit XI**The Reproductive System including breast****4****Hours**

- Structure of female reproductive organs
 - Structure of male reproductive organs
 - Structure of breast
- Alteration in disease
Application and implications in nursing

ANATOMYText book

Chaurasia B.D., Human Anatomy Vol, I, II, III, 4th Edition, C.B.S Publishers and Distributors, New Delhi, 2004

Reference

Thibodeau, G. & Patton, G.K. Anthony's Textbook of Anatomy and Physiology, 18th Edition, Elsevier Publishers, St. Louis, 2007

Biochemistry

Placement: First year

Time: Theory 30 Hours

Course Description: The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations in biochemistry in diseases for practice of nursing.

Content

Unit I Introduction: **3**

Hours

- Definition and significance in nursing
- Review of structure, composition and functions of cell
- Prokaryote and Eukaryote cell organization
- Microscopy

Unit II Structure and functions of Cell membrane **6**

Hours

- Fluid mosaic model tight junction, Cytoskeleton
- Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump
- Acid base balance-maintenance & diagnostic tests
 - PH buffers

Unit III Composition and metabolism of Carbohydrates **6**

Hours

- Types, structure, composition and uses
 - Monosaccharides,
 - Disaccharides
 - Oligosaccharides
- Metabolism
 - Pathways of glucose:
 - Glycolysis
 - Gluconeogenesis: Cori's cycle, Tricarboxylic acid (TCA) cycle
 - Glycogenolysis
 - Pentose phosphate pathway (Hexose mono phosphate)
 - Regulation of blood glucose level

Investigations and their interpretations

Unit IV Composition and metabolism of lipids **4**

Hours

- Types, structure, composition and uses of fatty acids
 - Nomenclature, Roles and Prostaglandins
- Metabolism of fatty acid
 - Breakdown
 - Synthesis
- Metabolism of triacylglycerols
- Cholesterol metabolism
 - Biosynthesis and its regulation

- Bile salts and bilirubin
- Vitamin D
- Steroid hormones
- Lipoproteins and their functions:
 - ❑ VLDLs-IDLs, LDLs and HDLs
 - ❑ Transport of lipids
 - ❑ Atherosclerosis, investigations and their interpretations

Unit V Composition and metabolism of Amino acids and Proteins **6**

Hours

- Types, structure, composition and uses of Amino acids and Proteins
- Metabolism of Amino acids and Proteins
 - ❑ Protein synthesis, targeting and glycosylation
 - ❑ Chromatography
 - ❑ Electrophoresis
 - ❑ Sequencing
- Metabolism of Nitrogen
 - ❑ Fixation and Assimilation
 - ❑ Urea Cycle
 - ❑ Hemes and chlorophylls
- Enzymes and co-enzymes
 - ❑ Classification
 - ❑ Properties
 - ❑ Kinetics and inhibition
 - ❑ Control

Investigations and their interpretations

Unit VI Composition of Vitamins and Minerals **2**

Hours

- Vitamins and minerals:
 - ❑ Structure
 - ❑ Classification
 - ❑ Properties
 - ❑ Absorption
 - ❑ Storage & transportation
 - ❑ Normal concentration

Investigations and their interpretations

Unit VII Immunochemistry **3**

Hours

- Immune response,
- Structure & Classification of immunoglobins
- Mechanism of antibody production
- Antigens: HLA typing.
- Free radical and Antioxidants.
- Specialised Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein.

- Electrophoretic and Quantitative determination of immunoglobins – ELISA etc.
Investigations and their interpretations

BIOCHEMISTRY

Text book

Chatterjee M.N. Textbook of Biochemistry for Dental, Nursing and Pharmacy Students,
2nd Edition, Jaypee Brothers Medical Publishers, New Delhi, 2004

Reference

Satyanarayan U and Chakrapani U, Essentials of Biochemistry, 2nd Edition Books &
Allied (P) Ltd, Kolkata, 2008

Introduction to Computers

Placement – First Year
hours

Time: Theory – 45

Course Description: This course is designed for students to develop basic understanding of uses of computer and its application in nursing

Content

Unit I

Theory: 3

Hours

Introduction:

- Concepts of computers
- Hardware and soft ware; trends and technology
- Application of computers in nursing

Unit II

Hours Theory: 6

Practical: 20

- Introduction to disk operating system
 - DOS
 - Windows (all versions)
- Introduction
 - MS-Word
 - MS-Excel with pictorial presentation
 - MS-Access
 - MS-Power point

Unit III

Hours Theory: 2

Practical: 3 Multimedia; type and uses

- Computer aided teaching & testing

Unit IV

Hours Theory: 1

Practical: 3

- Use of internet and: e-mail

Unit V

Hours Theory: 2

Practical: 2 Statistical packages: types and their features

Unit VI

Hours Theory: 1

Practical: 2

- Hospital Management
System: Types and uses.

Reference:

1) Curtin, Dennis P. et al Information Technology The Breaking Wave, Tata McGraw-Hill, 1st Edition, New Delhi 1999

Goa University
Nursing Foundations-Practical

Placement: First Year

Time: Practical-650 hours
(200 lab and 450 clinical)

Course Description: This course is designed to help the students to develop and understanding of the philosophy, objective, theories and process of nursing in various clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in clinical settings

Skills

Hospital admission and discharge (Unit III of theory)

- Admission
- Prepare Unit for new patient
- Prepare admission bed
- Performs admission procedure
 - New patient
 - Transfer in
- Prepare patient records

Discharge/ Transfer out

- Gives discharge counseling
- Perform discharge procedure(Planned discharged, LAMA and abscond, Referrals and transfers)
- Prepare records of discharge/transfer
- Dismantle, and disinfect unit and equipment after discharge/ transfer

Perform assessment:

- History taking, Nursing diagnosis, problem list, Prioritization, Goals and Expected Outcomes, Selection of Interventions
- Write Nursing Care Plan
- Gives care as per the plan

Communication

- Use verbal and non verbal communication techniques

Prepare a plan for patient teaching session

Write patient report

- Change- of shift report, Transfer reports, Incident reports etc.
- Presents patient report

Vital Signs

Measure, Records and interpret alterations in body temperature, pulse respiration and blood pressure

Health assessment

- Health history taking
- Perform assessment:
 - General
 - Body systems
- Use various methods of physical examination
- Inspection, Palpation, Percussion, Auscultation, Olfaction
- Identification of system wise deviations

Prepare Patient's unit:

Prepare beds:

- Open, closed, occupied, operation, amputation,
- Cardiac, fracture, burn, Divided, & Fowlers bed

Pain assessment and provision for comfort

Use comfort devices

Hygienic care:

- Oral hygiene:
- Baths and care of pressure points
- Hair wash, pediculosis treatment

Feeding:

- Oral, Enteral, Naso/ Orogastric, gastrostomy and Parenteral feeding
- Naso-gastric insertion, suction, and irrigation

Assisting patient in urinary elimination

- Provides urinal/ bed pan.
- Condom drainage
- Perineal care
- Catheterization
- Care of urinary drainage

Bladder irrigation**Assisting bowel Elimination:**

- Insertion of Flatus tube
- Enemas
- Insertion of Suppository

Bowel wash**Body Alignment and Mobility:**

- ☐ Range of Motion Exercise
- ☐ Positioning: Recumbent, Lateral (rt/lt), Fowlers, Sims, Lithotomy, Prone, Trendelenburg position
- ☐ Assist patient in Moving, lifting, transferring, walking
- ☐ Restraints

Oxygen administration**Suctioning: Oropharyngeal, nasopharyngeal****Chest physiotherapy and postural drainage****Care of Chest drainage****CPR- Basic life support****Intravenous therapy****Blood and blood component therapy**

Collect/ assist for collection of specimens for investigations: urine, sputum, faeces, vomitus, blood and other body fluids

Perform lab test:

- Urine: sugar, albumin, acetone
- Blood: sugar, (with strip/ gluco-meter)

Hot and cold applications:

Local and general Sitz bath

Communicating and assisting with self-care of visually & hearing impaired patients**Communicating and assisting with self-care of mentally challenged/ disturbed patients**

Recreational and diversional therapies

Caring of patient with alteration in sensorium

Infection control

- Perform following procedures:
 - ❑ Hand washing techniques
 - ❑ (Simple, hand antisepsis and surgical antisepsis (scrub)
 - ❑ Prepare isolation unit in lab/ ward
 - ❑ Practice technique of wearing and removing Personal protective equipment (PPE)
 - ❑ Practice Standard safety precautions (Universal precautions)

Decontamination of equipment and unit:

- Surgical asepsis:
 - ❑ Sterilization
 - ❑ Handling sterilized equipment
 - ❑ Calculate strength of lotions,
 - ❑ Prepare lotions
- Care of articles

Pre and post operative care:

- Skin preparations for surgery: Local
- Preparation of post operative unit
- Pre & Post operative teaching and counseling
- Pre and post operative monitoring
- Care of the wound:
 - Dressing, Suture care. Care of Drainage, Application of Bandages, Binders, Splints & Slings
- Bandaging of various body parts

Administration of medications

- Administer medications in different forms and routes
- Oral, Sublingual and Buccal
- Parenteral: intradermal, subcutaneous, intramuscular etc.
- Assists with Intra Venous medications
- Drug measurements and dose calculations
- Preparations of lotions and solutions
- Administers topical applications
- Insertion of drug into body cavity: Suppository & medicated packing etc.
- Instillation of medicines and spray into Ear, Eye, Nose and throat
- Irrigations: Eye, Ear, Bladder, Vagina and Rectum

- Inhalations: dry and moist

Care of dying patient

- Caring and packing of dead body
- Counseling and supporting grieving relatives
- Terminal care of the unit

**Goa University
Nursing Foundations**

**Placement: First Year
hours**

Time: Theory –265

650 hours

Practical –

(200 lab and 450

clinical)

Course Description: This course is designed to help the students to develop an understanding of the philosophy, objective, theories and process of nursing in various Supervised Clinical setting. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in Supervised Clinical setting.

Content:

Unit I

10

Hours

Introduction

- Concept of Health: Health – Illness continuum
- Factors influencing health
- Causes and risk factors for developing illness
- Body defences: Immunity and immunization
- Illness and illness Behavior
- Impact of illness on patient and family
- Health Care Services: Health Promotion and Prevention, Primary Care, Diagnosis, Treatment, Rehabilitation and Continuing Care
- Health care teams
- Types of health care agencies:
- Hospitals: Types, Organization and Functions
- Health Promotion and Levels of Disease Prevention
- Primary health care and its delivery: Role of nurse

Unit II

16

Hours

Nursing as a profession.

- Definition and Characteristics of a profession
- Nursing:
 - Definition, Concepts, Philosophy, Objectives
 - Characteristics, nature and scope of nursing practice

- ❑ Functions of nurse
- ❑ Qualities of a nurse
- ❑ Categories of Nursing personnel
- ❑ Nursing as a profession
- ❑ History of Nursing in India.
- Values: Definition, Types, Value Clarification and Values in professional Nursing:
- Caring and Advocacy
- Ethics:
- Definition and Ethical Principles
- Code of Ethics and professional conduct for nurses

Unit III

Hospital admission and discharge

4

Hours

- Admission to the hospital
 - ❑ Unit and its preparation – admission bed
 - ❑ Admission procedure
 - ❑ Special considerations
 - ❑ Medico- legal issues
 - ❑ Roles and Responsibilities of the nurse
- Discharge from the hospital
 - ❑ Types: {Planned discharge, DAMA/LAMA and abscond, Referrals and transfers
 - ❑ Discharge Planning
 - ❑ Discharge procedure
 - ❑ Special considerations
 - ❑ Medico- legal issues
 - ❑ Roles and Responsibilities of the nurse
 - ❑ Care of the unit after discharge

Unit IV

Communication and Nurse Patient relationship

10 Hours

- Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication
 - ❑ Methods of Effective Communication,
 - Attending Skills
 - Rapport building skills
 - Empathy skills
 - ❑ Barriers to effective communication,
- Helping Relationships (NPR): Dimensions of Helping Relationships, Phases of a helping relationship

- Communicating effectively with patient, families and team members and maintain effective human relation with special reference to communicating with vulnerable group (children, women, physically and mentally challenged and elderly)
- Patient Teaching: Importance, purposes, process, role of nurse and Integrating teaching in Nursing Process

Unit V

The Nursing Process

15

Hours

- Critical Thinking and Nursing Judgment
 - Critical Thinking: Thinking and Learning,
 - Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
- Nursing Process Overview: Application in Practice
 - Nursing process format: INC, current format
 - Assessment
 - Collection of Data: Types, Sources, Methods
 - Formulation Nursing judgment: Data interpretation
 - Nursing diagnosis
 - Identification of client problems
 - Nursing diagnosis statement
 - Difference between medical and nursing diagnosis
 - Planning
 - Establishing priorities
 - Establishing Goals and Expected Outcomes
 - Selection of interventions: Protocols and standing Orders
 - Writing the Nursing Care Plan
 - Implementation
 - Implementating the plan of care
 - Evaluation
 - Outcome of care
 - Review and Modify
 - Documentation and Reporting

Unit VI

Documentation and Reporting

4

Hours

- Documentation: Purpose of Recording and reporting
- Communication within the Health Care Team,
- Type of records; ward records, medical/ nursing records.
- Common Record-keeping forms, Computerized documentation
- Guidelines for Reporting: Factual Basis, Accuracy, Completeness, Currentness, Organization,

Confidentiality

- Methods of Recording,
- Reporting: Change – of shift reports: Transfer reports, Incident reports
- Minimizing legal Liability through effective record keeping

Unit VII

Vital signs

15

Hours

- Guidelines for taking vital signs:
- Body temperature:
 - Physiology, Regulation, Factors affecting body temperature,
 - Assessment of body temperature: Sites, equipments and technique, special considerations
 - Temperature alterations: Hyperthermia, Heatstroke, Hypothermia
 - Hot and cold applications
- Pulse:
 - Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse
 - Assessment of pulse: sites, location, equipments and technique, special considerations
 - Alterations in pulse:
- Respiration:
 - Physiology and Regulation, Mechanics of breathing characteristics of the respiration, Factors affecting respiration
 - Assessment of respirations: technique, special considerations
 - Alteration in respirations:
- Blood pressure:
 - Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure
 - Assessment of blood pressure: sites, equipments and technique, special considerations
 - Alterations in blood pressure
- Recording of vital signs

Unit VIII

Health assessment

30

Hours

- Purposes
- Process of Health assessment
 - Health history
 - Physical examination:
 - Methods – inspection, Palpation, Percussion, Auscultation, Olfaction

- Preparation for examination: patient and unit
- General assessment
- Assessment of each body system
- Recording of health assessment

Unit IX

Machinery, Equipment and linen

5

Hours

- Types: Disposables and reusable- Linen, rubber goods, glass ware, metal, plastics, furniture, machinery
- Introduction:
 - Indent
 - Maintenance
 - Inventory

Unit X

Meeting needs of patient

60

Hours

- Basic needs (Activities of daily living)
 - Providing safe and clean environment
 - Physical – environment: Temperature, Humidity, Noise, Ventilation, light, Odour, pests control
 - Reduction of physical hazards: fire, accidents
 - Safety devices: Restraints, side rails, airways, trapez etc
 - Role of nurse in providing safe and clean environment
 - Hygiene:
 - Factors influencing Hygienic Practice
 - Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair care, Eyes, Ears, and Nose
 - o Assessment, Principles, Types, Equipment, Procedure, Special Consideration
 - Patient environment: Room Equipment and linen, making patient beds
 - o Types of beds and bed making
 - Comfort:
 - Factors Influencing Comfort
 - Comfort devices
- Physiological needs:
 - Sleep and Rest:
 - Physiology of sleep
 - Factors affecting sleep
 - Promoting Rest and sleep
 - Sleep Disorders
 - Nutrition:

- Importance
- Factors affecting nutritional needs
- Assessment of nutritional needs: Variables
- Meeting Nutritional needs: Principles, equipments, procedure and special considerations
 - o Oral
 - o Enteral: Naso/ Orogastric, gastrostomy
 - o Parenteral:
- Urinary Elimination
 - Review of Physiology of Urine Elimination, Composition and characteristics of urine
 - Factors Influencing Urination
 - Alteration of Urinary Elimination
 - Types and Collection of urine specimen: Observation, urine testing
 - Facilitating urine elimination: assessment, types, equipments, procedures and special consideration
 - o Providing urinal/bed pan
 - o Condom drainage
 - o Perineal care
 - o Catheterization
 - o Care of urinary drainage
 - o Care of urinary diversions
 - o Bladder irrigation
- Bowel Elimination
 - Review of Physiology of Bowl Elimination, Composition and characteristics of faces
 - Factors affecting Bowel elimination
 - Alteration in Bowel Elimination
 - Types and Collection of specimen of faces: Observation
 - Facilitating bowel elimination: assessment, equipments, procedures and special considerations
 - o Passing of Flatus tube
 - o Enemas
 - o Suppository
 - o Sitz bath
 - o Bowel wash
 - o Care of Ostomies
- Mobility and Immobility
 - Principals of Body Mechanics
 - Maintenance of normal body Alignment and mobility
 - Factors affecting body Alignment and mobility
 - Hazards associated with immobility
 - Alteration in body Alignment and mobility

- Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects
 - o Range of motion exercise
 - o Maintaining body alignment: Position
 - o Moving
 - o Lifting
 - o Transferring
 - o Walking
 - o Restrains
- Oxygenation
 - Review of Cardiovascular and respiratory Physiology
 - Factors Affecting Oxygenation
 - Alterations in oxygenation
 - Nursing interventions in oxygenation: assessment, type, equipment used, procedure and special considerations
 - o Maintenance of patent airway
 - o Oxygen administration
 - o Suction
 - o Inhalations: dry and moist
 - o Chest physiotherapy and postural drainage
 - o Care of Chest drainage
 - o Pulse oximetry
 - o CPR- Basic life support
- Fluid, Electrolyte, and Acid Base Balances
 - Review of Physiological Regulation of Fluid, Electrolyte and Acid-Base Balance
 - Factors Affecting Fluid, Electrolyte and Acid- Base Balance
 - Alteration in Fluid Electrolyte, and Acid-Base Balance
 - Nursing interventions in Fluid. Electrolyte, and Acid – Base Balance
 - Acid-Base Imbalance assessment, type equipment, procedure and special considerations
 - o Measuring fluid intake and output
 - o Correcting Fluid, Electrolyte imbalance
 - ❖ Replacement of fluids: Oral and Parenteral- Venipuncture, regulating IV Flow rates, changing IV solutions and tubing, Changing IV dressing
 - ❖ Administering Blood transfusion
 - ❖ Restriction of fluids
- Psychosocial Needs
 - Concept of Cultural Diversity, Stress and Adaptation, Self-concept, Sexuality, Spiritual Health, Coping with loss, death and grieving
 - Assessment of psychosocial needs
 - Nursing intervention for psychosocial needs
 - Assist with coping and adaptation
 - Creating therapeutic environment

- ❑ Recreational and diversional therapies

Unit XI

Infection control in clinical settings

20

Hours

- Infection control
 - ❑ Nature of infection
 - ❑ Chain of infection transmission
 - ❑ Defenses against infection: natural and acquired
 - ❑ Hospital acquired infection (Nosocomial infection)
- Concept of asepsis: medical asepsis, and surgical asepsis
- Isolation precautions (Barrier nursing):
 - ❑ Hand washing: simple, hand antisepsis and surgical antisepsis (scrub)
 - ❑ Isolation: source and protective
 - ❑ Personal protecting equipments: types, uses and technique of wearing and removing
 - ❑ Decontamination of equipment and unit
 - ❑ Transportation of infected patients
 - ❑ Standard safety precautions (Universal precautions)
 - ❑ Transmission based precautions
- Biomedical waste managements:
 - ❑ Importance
 - ❑ Type of hospital waste
 - ❑ Hazards associated with hospital waste
 - ❑ Decontamination of hospital waste
 - ❑ Segregation and Transportation and disposal

Unit XII

Administration of Medications

40

Hours

- General Principles/ Considerations
 - ❑ Purpose of Medications
 - ❑ Principles: 5 rights, Special Consideration, Prescriptions, Safety in Administering Medications and Medication Errors
 - ❑ Drug forms
 - ❑ Routes of administration
 - ❑ Storage and maintenance of drugs and Nurses responsibility
 - ❑ Broad classification of drugs
 - ❑ Therapeutic Effects, Side Effects, Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions.
 - ❑ Factors Influencing drug Actions,
 - ❑ Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions.

- ❑ Converting Measurements Units: Conversion within one system, Conversion between Systems, Dosage Calculation,
 - ❑ Terminology and abbreviations used in prescription of medications
- Oral Drug Administration: Oral, Sublingual and Buccal: Equipment, procedure
- Parenteral
 - ❑ General Principles: decontamination and disposal of syringes and needles
 - ❑ Types of parenteral therapies
 - ❑ Types of syringes, needles, canula and infusion sets
 - ❑ Protection from needle stick Injuries: Giving Medications with a safety syringes
 - ❑ Routes of parenteral therapies
 - Intradermal: purpose, site, equipments, procedure, special considerations
 - Subcutaneous: purpose, site, equipments, procedure, special considerations
 - Intramuscular: purpose, site, equipments, procedure, special considerations
 - Intra Venous: purpose, site, equipments, procedure, special considerations
 - Advance techniques: epidural, intrathecal, intraosseous, intraperitoneal, intrapleural, intraarterial- Role of nurse
- Topical Administration: purpose, site, equipment, procedure, special consideration for
 - ❑ Application to Skin
 - ❑ Application to mucous membrane
 - Direct application of liquid- Gargle and swabbing the throat
 - Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/vagina
 - Instillation: Ear, Eye, Nasal, Bladder, and Rectal
 - Irrigations: Eye, Ear, Bladder, Vaginal and Rectal
 - Spraying: Nose and throat
- Inhalation: Nasal, oral, endotracheal/ tracheal (steam, oxygen and medications)- purposes, types, equipment, procedure, special considerations
 - ❑ Recording and reporting of medication administered

Unit XIII

Meeting needs of Perioperative patients

10

Hours

- Definition and concept of perioperative Nursing
- Preoperative Phase
 - ❑ Preparation of patient for surgery
- Intraoperative
 - ❑ Operation theatre Set up and environment
 - ❑ Role of nurse
- Postoperative Phase
 - ❑ Recovery unit
 - ❑ Post operative unit
 - ❑ Postoperative care

- Wounds: type, Classifications, Wound Healing Process, Factors affecting Wound, Complications of Wounds Healing
- Surgical asepsis
- Care of the wound: types, equipments, procedure and special considerations
 - ❑ Dressing, Suture Care,
 - ❑ Care of Drainage
 - ❑ Application of Bandages, Binders, Splints & Slings
 - ❑ Heat and Cold Therapy

Unit XIV

Meeting special needs of the patient

15

Hours

- Care of patients having alteration in
 - ❑ Temperature (Hyper and Hypothermia); Types, Assessment, Management
 - ❑ Sensorium (Unconsciousness); Assessment, Management
 - ❑ Urinary Elimination (retention and incontinence); Assessment, Management
 - ❑ Functioning of sensory organs: (Visual & hearing impairment)
 - ❑ Assessment of Self- Care ability
 - ❑ Communication Methods and special considerations
 - ❑ Mobility (physically challenged, cast) assessment of Self- Care ability: Communication Methods and special considerations
 - ❑ Mental state (mentally challenged), assessment of Self-Care ability;
 - ❑ Communication Methods and special considerations
 - ❑ Respiration (distress); Types, Assessment, Management
 - ❑ Comfort- (Pain)-Nature, Types, Factors influencing Pain, Coping, Assessment, Management;
- Treatments related to gastrointestinal system: nasogastric suction, gastric irrigation, gastric analysis

Unit XV

Care of Terminally ill patient

5

Hours

- ❑ Concept of Loss, Grief, grieving Process
- ❑ Signs of clinical death
- ❑ Care of dying patient: special considerations
 - Advance directives: euthanasia, will, dying declaration, organ donation etc
- ❑ Medico-legal issues
- ❑ Care, of dead body: equipment, procedure and care of unit
- ❑ Autopsy
- ❑ Embalming

Unit XIII

**Professional Nursing concepts and practices
Hours**

6

- Conceptual and theoretical models of nursing practice: Introduction to models-holistic model, health belief model, health promotion model etc
- Introduction to Theories in Nursing; Peplau`s, Henderson`s, Orem`s, Neuman`s, Roger`s and Roy`s
- Linking theories with nursing process

NURSING FOUNDATIONS

Text book:

Potter A. Patricia and Perry Anne G, Fundamentals of Nursing 6th Edition, Elsevier Publishers, C.V. Mosby Company, St. Louis, 2005

Ed. Jacob, Annamma et al Clinical Nursing Procedures: The Art of Nursing Practice, 2nd Edition, Jaypee Brothers Medical Publishers, New Delhi, 2010

Reference:

Taylor C, Lillis C, and Le Mone P, Fundamental of Nursing The Arts & Science of Nursing Care, 4th Edition, Lippincott, Philadelphia, 2001

Goa University
Microbiology

Placement – First Year
hours

Time: Theory – 60
(Theory 45 and Lab

15)

Course Description: The course is designed to enable students to acquire knowledge of fundamentals of Microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Content:

Unit I

5 Hours

Introduction:

- Importance and relevance to nursing
- Historical perspective
- Concept and terminology
- Principles of microbiology

Unit II

Th: 10 Hours

Pr: 5 Hours

General characteristics of Microbes

- Structure and classification of Microbes
- Morphological types
- Size and forms of bacteria
- Motility
- Colonization
- Growth and nutrition of microbes
 - Temperature
 - Moisture
 - Blood and body fluids
- Laboratory methods for identification of Microorganisms
- Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation
- Culture; various medias

Unit III

Th: 10 Hours

Pr: 2 Hours

Infection control

- Infection: Sources, portals of entry and exit, transmission
- Asepsis

- Disinfection; Types and methods
- Sterilization; Types and methods
- Chemotherapy and antibiotics
- Standard safety measures
- Biomedical waste management
- Role of Nurse
- Hospital acquired infection
- Hospital infection control programme
 - Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc.

Unit IV

Th: 4 Hours

Pr: 12 Hours

Pathogenic organisms

- Micro-organisms
 - Cocci-gram positive and gram negative
 - Bacilli-gram positive and gram negative
 - Spirochaete
 - Mycoplasma
 - Rickettsiae
 - Chlamydiae
- Viruses
- Fungi-Superficial and Deep mycoses
- Parasites
- Rodents & vectors

Characteristics, source, portal of entry, transmission of infection.

Identification of diseases producing micro-organisms

Collection, handling and transportation of various specimens

Unit V

Th: 4 Hours

Pr: 8 Hours

Immunity

- Immunity-Types, classification
- Antigen and antibody reaction
- Hypersensitivity – skin test
- Serological tests
- Immunoprophylaxis
 - Vaccines & sera – Types & Classification, storage and handling, cold chain
 - Immunization for various diseases

□ Immunization Schedule

Text book

Ed. Ashbee, Ruth and Mary Mathew Ananthnarayan and Paniker Textbook of Microbiology for Nurses 1st Edition, University Press Pvt Ltd, Hyderabad, 2010

Reference

Panjarathinam R., Microbiology in Nursing, 1st Edition, New Central Book Agency (P) Ltd, Kolkata, 2004

Goa University
Nutrition

Placement: First Year

Time: Theory – 60 hours

Course Description: The Course is designed to assist the students to acquire knowledge of nutrition for maintenance of optimum health at different stages of life and its application for practice of nursing

Content

Unit I

4 Hours

Introduction:

- Nutrition:
 - History
 - Concepts
- Role of Nutrition in maintaining health
- Nutritional problems in India
- National nutritional policy
- Factors affecting food and nutrition: socio economic, culture, tradition, production, system of distribution, life style and food habits etc.
- Role of food and its medicinal value
- Classification of foods
- Food standards
- Elements of Nutrition: macro and micro
- Calorie, BMR

Unit II

2 Hours

Carbohydrates

- Classification
- Caloric value
- Recommended daily allowances
- Dietary sources
- Functions
- Digestion, absorption storage, and metabolism of carbohydrates
- Malnutrition: Deficiencies and over consumption

Unit III

2 Hours

Fats

- Classification
- Caloric value
- Recommended daily allowances
- Dietary sources
- Functions

- Digestion, absorption storage, and metabolism of fats
- Malnutrition: Deficiencies and over consumption

Unit IV

2 Hours

Proteins

- Classification
- Caloric value
- Recommended daily allowances
- Dietary sources
- Functions
- Digestion, absorption storage, and metabolism of proteins
- Malnutrition: Deficiencies and over consumption

Unit V

3 Hours

Energy

- Unit of energy – Kcal
- Energy requirements for different categories of people
- Measurements of energy
- Body Mass Index (BMI) and basic metabolism
- Basal Metabolic Rate (BMR) – determination and factors affecting

Unit VI

4 Hours

Vitamins

- Classification
- Recommended daily allowances
- Dietary sources
- Functions
- Absorption, synthesis, metabolism, storage and excretion
- Deficiencies
- Hypervitaminosis

Unit VII

4 Hours

Minerals

- Classification
- Recommended daily allowances
- Dietary sources
- Functions
- Absorption, synthesis, metabolism storage and excretion
- Deficiencies

- Over consumption and toxicity

Unit VIII

3 Hours

Water & Electrolytes

- Water: Daily requirement, regulation of water metabolism distribution of body water,
- Electrolytes: Types, sources, composition of body fluids
- Maintenance of fluid and electrolyte balance
- Over hydration, dehydration and water intoxication
- Electrolyte imbalances

Unit IX

Hours Theory: 5 Practical:

15

Cookery rules and preservation of nutrients

- Principles, methods of cooking and serving
 - Preservation of nutrients
- Safe food handling – toxicity
- Storage of food
- Food preservation, food additives and its principles
- Prevention of food adulteration Act (PFA)
- Food standards
- Preparation of simple beverages and different types of food

Unit X

Hours Theory: 7

Practical: 5

Balanced diet

- Elements
- Food groups
- Recommended daily allowance
- Nutritive value of foods
- Calculation of balanced diet for different categories of people
- Planning menu
- Budgeting of food
- Introduction to therapeutic diet: Naturopathy – Diet

Unit XI

4 Hours

Role of nurse in nutritional programmes

- **National programmes related to nutrition**
 - Vitamin A deficiency programme

- ❑ National iodine deficiency disorders (IDD) programme
- ❑ Mid-day meal programme
- ❑ Integrated child development scheme (ICDS)
- National and International agencies working towards food/nutrition
 - ❑ NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc
- Assessment of nutritional status
- Nutrition education and role of nurse

NUTRITION

Text book

Srilaxmi B, Nutrition Science, 2nd Edition, New Age International (P) Ltd New Delhi, 2002

Reference

Swaminathan M., Hand Book of Food and Nutrition, 5th Edition, Bangalore Printing & Publishing Co. Ltd., Bangalore, 1986

Goa University

Physiology

Placement – First Year
hours

Time: Theory – 60

Course Description: The course is designed to assist students to acquire knowledge of the normal physiology of various human body systems and understand the alterations in anatomical structures in disease and practice of nursing

Content:

Unit I

Cell Physiology

4

Hours

- Tissue – Formation, repair
 - Membranes and glands – functions
- Alteration in disease
Application and implications in nursing

Unit II

The Skeletal System

4

Hours

- Bone formation and growth
 - Bones – Functions and movements of bones of axial and appendicular skeleton, bone healing
 - Joints and joint movement
- Alteration in diseases
Application and implications in nursing

Unit III

The Muscular System

4

Hours

- Muscle movement, Muscle tone, Physiology of muscle contraction, levels and maintenances of posture
- Alteration in disease
Application and implications in nursing

Unit IV

7

Hours

The Nervous System

- Functions of neurologia and neurons
- Stimulus and nerve impulse – definitions and mechanism
- Functions of brain, spinal cord, cranial and spinal nerves

- Cerebrospinal fluid – Composition, circulation and function
- Reflex arc, Reflex action and reflexes
- Autonomic functions -
 - Pain: somatic, visceral, and referred
 - Autonomic learning and biofeedback

Alteration in disease

Application and implications in nursing

Unit V

The Circulatory system

8

Hours

- Blood formation, composition, blood groups, blood coagulation
- Haemoglobin: Structure, synthesis and breakdown, variation of molecules, estimation
- Functions of Heart, conduction, Cardiac cycle, circulation – principles, control, factors

Influencing BP and Pulse

Alteration in disease

Application and implications in nursing

Unit VI

The Respiratory System

6

Hours

- Functions of respiratory organs
- Physiology of respiration
- Pulmonary ventilation, Volume
- Mechanics of respiration
- Gaseous exchange in lungs
- Carriage of oxygen and carbon-dioxide
- Exchange of gases in tissues
- Regulation of respiration

Alteration in diseases

Application and implications in nursing

Unit VII

The Digestive System

6

Hours

- Function of organs of digestive tract, Movement of alimentary tract, digestion in mouth, stomach, small intestine, large intestine, absorption of food, functions of liver, gall bladder and pancreas
- Metabolism of carbohydrates, protein and fat

Unit VIII
The Excretory System 5
Hours

- Function of kidneys, ureter, urinary bladder, urethra
- Composition of urine
- Mechanism of urine formation
- Functions of skin
- Regulation of body temperature
- Fluid and electrolyte balance

Alteration in disease

Application and implications in nursing

Unit IX 4
Hours
The Sensory Organs

- Function of skin, eye, ear, nose, tongue

Alteration in disease

Application and implications in nursing

Unit X
The Endocrine System 5
Hours

- Functions of Pituitary, Pineal body, thymus, thyroid, Parathyroid, pancreas, Suprarenal, Placenta and ovaries & Testes

Alteration in disease

Application and implications in nursing

Unit XI
The Reproductive System including breast 5
Hours

- Reproduction of cells – DNA, Mitosis, Meiosis, spermatogenesis, oogenesis.
- Function of female reproductive organs; functions of breast, Female sexual cycle.
- Introduction to embryology.
- Function of male reproductive organs; male function in reproduction Male fertility system,

Alteration in disease

Application and implications in nursing

Unit XII
Lymphatic and Immunological System 2
Hours

- Circulation of lymph
- Immunity
 - ❑ Formation of T-cells and B-cells
 - ❑ Types of immune response
 - ❑ Antigens
 - ❑ Cytokines
 - ❑ Antibodies

PHYSIOLOGY

Text book

Sembulingam K. & Sembulingam P. Essentials of Medical Physiology, 5th Edition, Jaypee Brothers Medical Publishers, New Delhi, 2010

Reference

Thibodeau, G. & Patton, G.K. Anthony's Textbook of Anatomy and Physiology, 18th Edition, Elsevier Publishers, St. Louis, 2007

Goa University
Psychology

Placement: First year

Time: Theory 60 Hours

Course Description: This course is designed to assist the students to acquire knowledge of the fundamentals of psychology and develop an insight into behavior of self and others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing practice.

Content

Unit I

Introduction

2

Hours

History and origin of science of psychology

Definitions and Scope of psychology

Relevance to nursing

Methods of psychology

Unit II

Biology of behavior

4

Hours

Body mind relationship-modulation process in health and illness

Genetics and behavior

Heredity and environment

Brain and behavior: nervous system, neurons and synapse

Association cortex, right and left hemispheres

Psychology of sensations

Muscular and glandular controls of behavior

Nature of behavior of an organism/integrated responses

Unit III

Cognitive processes

20

Hours

Attention: types, determinants, duration and degree, alterations

Perception: meaning, principles, factors affecting, errors.

Learning: nature, types, learner and learning, factors influencing, laws and theories, process, transfer and study habits

Memory: meaning, types, nature, factors influencing, development theories and methods of memorizing and forgetting

Thinking: types and levels, stages of development, relationship with language and communication

Intelligence: meaning, classification, uses, theories

Aptitude: concept, types, individual differences and variability

Psychometric assessments of cognitive processes
Alterations in cognitive processes
Applications

Unit IV

Motivation and Emotional processes

8

Hours

Motivation: meaning, concepts, types, theories, motives and behaviour, conflicts and frustration, conflict resolution
Emotions and stress:
Emotion: definition, components, changes in emotions, theories, emotional adjustments, emotions in health and illness
Stress: stressors, cycle, effect, adaptation and coping
Attitude: meaning, natures, development, factors affecting

Behavior and attitudes
Attitudinal change
Psychometric assessments of emotional and attitudes
Alteration in emotions
Applications

Unit V

Personality

7

Hours

Definitions, topography, types, theories
Psychometric assessments of personality
Alterations in personality
Applications

Unit VI

Developmental psychology

7

Hours

Psychology of people at different ages from infancy to old age
Psychology of vulnerable individuals – challenged, women, sick, etc.
Psychology of groups

Unit VII

Mental Hygiene and mental health Hours

8

Concepts of mental hygiene and mental health
Characteristics of mentally health person
Warning signs of poor metal health
Promotive and preventive mental health-strategies and services
Ego Defence mechanisms and implications
Personal and social adjustments
Personal and social adjustments
Guidance and counselling
Role of nurse

Unit VIII

Psychological assessment and tests Hours

4

Types, development, characteristics, principles, uses, interpretations and role of nurse in psychological assessment

PSYCHOLOGY

Text book

R. Sreevani, Psychology for Nursing, 1st Edition, Jaypee Brothers Medical Publishers, New Delhi, 2009

Reference

Anthikad Jacob, Psychology for Graduate Nurses, 3rd Edition, Jaypee Brothers Medical Publishers, New Delhi, 2004

Goa University
4 year BSc- Nursing
Subject: Community Health Nursing – I

Placement- Second year

Time: Theory 90 hrs.

Practical 135 hrs

Course description: This course is designed for students to appreciate the principles of promotion and maintenance of health

Unit No and Name –I Introduction

2

Hours-

- Community health nursing
- Definition, concept and dimensions of health
- Promotion of health
- Maintenance of health

Unit No and Name – II Determinants of health

Hours -

**2
0**

- Eugenics
- Environment:
 - Physical : Air, light, ventilation, water Housing Sanitation: disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, Communication: infrastructure facilities and Linkages
 - Acts regulating the environment : National Pollution control board
 - Bacterial & viral: Agents, host carriers and immunity
 - Arthropods and Rodents
- Food hygiene :Production, Preservation, Purchase, Preparation, Consumption
 Acts regulating food hygiene Prevention of food adulteration act, Drugs and cosmetic act
- Socio-cultural
 - Customs, taboos
 - Marriage system
 - Family structure
 - Status of special groups:
 - Females, Children, Elderly, challenged groups and sick person
- Life Style
- Hygiene
- Physical activity
 - Recreation and sleep
 - Sexual life
 - Spiritual life philosophy
 - Self reliance
 - Dietary pattern

- Education
- Occupation
- Financial management
 - Income
 - Budget
 - Purchasing power
 - Security

Unit No and Name:- III Epidemiology

Hours -10

- Definition, concept, aims scope, uses and terminology used in epidemiology
- Dynamics of disease transmission: epidemiological triad
- Morbidity and mortality: Measurements
- Levels of prevention
- Methods of epidemiology of
 - Descriptive
 - Analytical : Epidemic investigation
 - Experimental

Unit No and Name: -IV Epidemiology and nursing management of common

**Communicable Diseases
Hours- 25**

- Respiratory infections
 - Small Pox
 - Chicken Pox
 - Measles
 - Influenza
 - Rubella
 - ARI's & Pneumonia
 - Mumps
 - Diphtheria
 - Whooping cough
 - Meningococcal meningitis
 - Tuberculosis
 - SARS
- Intestinal Infections
 - Poliomyelitis
 - Viral Hepatitis
 - Cholera
 - Diarrhoeal diseases
 - Typhoid fever
 - Food poisoning
 - Amoebiasis
 - Hook worm infection
 - Ascariasis

- Dracunculiasis
- Arthropod infections
 - Dengue
 - Malaria
 - Filariasis
- Zoonoses
- Viral**
 - Rabies
 - Yellow fever
 - Japanese encephalitis
 - Kyasanur forest disease
- **Bacterial**
 - Brucellosis
 - Plague
 - Human salmonellosis
 - Anthrax
 - Leptospirosis
- **Rickettsial diseases**
 - Rickettsial zoonoses
 - Scrub typhus
 - Murine typhus
 - Tick typhus
 - Q fever
- Parasitic zoonoses
 - Taeniasis
 - Hydatid disease
 - Leishmaniasis
- **Surface infection**
 - Trachoma
 - Tetanus
 - Leprosy
 - STD & RTI
 - Yaws
 - HIV/AIDS

Any other

Unit No and Name: - V. Epidemiology and nursing management of Non

**communicable diseases
Hours- 10**

- Malnutrition : under nutrition, over nutrition, nutritional deficiencies
- Anaemia
- Hypertension
- Stroke
- Rheumatic heart disease

- Coronary heart disease
- Cancer
- Diabetes mellitus
- Blindness
- Accidents
- Mental illness
- Obesity
- Iodine deficiency
- Fluorosis
- Epilepsy

Unit No and Name:-VI Demography

Hours- 6

- Definition, concept and scope
- Method of collection, analysis and interpretation of demographic data
- Demographic rates and ratios

Unit No and Name:- VII Population and its control

Hours -17

- Population explosion and its impact on social, economic development of individual, society and country
- Population control:
Overall development: Women empowerment, Social economic and educational development
- Limiting family size:
 - Promotion of small family norm
 - Methods: spacing (natural biological, chemical, mechanical methods etc)
 - Terminal : surgical methods
 - Emergency contraception

COMMUNITY HEALTH NURSING I & II

Text book

Gulani, K.K., Community Health Nursing Principles and Practices 1st Edition, Kumar Publishing House, New Delhi, 2005

Reference

Park,K., Park's Textbook of Preventive and Social Medicine, 20th Edition, Banarsidas Bhanot, Jabalpur, 2009

Goa University
4 year BSc- Nursing
Subject: Community Health Nursing I – Practical

Placement: Second year

Time: 135 hours

**Areas: Community Health nursing
and 2 weeks rural**

Duration (in week) 2 weeks urban

| Objectives | Skills | Assignments | Assessment methods |
|---|---|---|---|
| <ul style="list-style-type: none"> * Build and Maintain rapport * Identify demographic characteristics, health determinants and community health resources * Diagnose health needs of individual and families * Provide primary care in health centre * Counsel and educate individual, family and community | <ul style="list-style-type: none"> Use Techniques of interpersonal relationship * Identification health determinants of community *History taking *Physical examination *Collect specimens- sputum, malaria smear * Perform simple lab tests at centre-blood for Hemoglobin and sugar, urine for albumin and sugar * Administer vaccines and medications to adults * Counsel and teach individual, family and community * Nutrition *Hygiene *Self health monitoring *Seeking health service *Healthy life style *Family welfare methods *Health promotion | <ul style="list-style-type: none"> • To work with 2 assigned families each in urban and rural • Family study – 1 • Observation report of community – 1 • Health talks 2 (1 in urban and in rural) | <ul style="list-style-type: none"> • Assess clinical performance with rating scale • Assess each skill with checklist • Evaluation of family study observation report and health talks • Completion of activity |

Goa University
4 year BSc Nursing
Subject: Communication & Educational Technology

Placement: Second Year

Time: 90 Hours

Theory: 60 and Laboratory:

30

Course Description: This course is designed to help the students acquire an understanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal relations, teaching individuals and groups in clinical community health and educational settings.

| | |
|--|--------------|
| Unit No and Name:-I Review of Communication Process | Hours |
| 5 | |

- Process; elements and channel
- Facilitators
- Barriers and methods of overcoming
- Techniques

| | |
|---|--------------|
| Unit No and Name:-II Interpersonal relations | Hours |
| 5 | |

- Purpose & types
- Phases
- Barriers and methods of overcoming
- Johari Window

| | |
|--|--------------|
| Unit No and Name:-III Human relations | Hours |
| 5 | |

- Understanding self
- Social behaviour motivation, social attitudes
- Individual and group
- Groups & individual
- Human relations in context of nursing
- Group dynamics
- Team work

| | |
|--|--------------|
| Unit No and Name:- IV Guidance & counseling | Hours |
| 10 | |

- Unit No and Name: - V Principles of education & teaching learning process Hours**
5

- | Unit No and Name:- VI Methods of teaching | Hours |
|---|-------|
| 10 | |

- | Unit No and Name:- VII Educational media | Hours |
|--|-------|
| 10 | |

- 50

Unit No and Name:- VIII Assessment
Hours 5

- purpose & scope of evaluation & assessment
- criteria for selection of assessment techniques and methods
- assessment of knowledge: essay type questions, short answer questions (SAQ), multiple choice questions (MCQ)
- assessment of skills:
Observation checklist practical exam, viva, objective structured clinical examination (OSCE)
- Assessment of Attitudes: Attitude scales

Unit No and Name:- IX Information, Education & communication for health
(IEC)
)
Hou
rs 5

- Health behavior & health education
- Planning for health education
- Health education with individuals, groups & communities
- Communicating health messages
- Methods & media for communicating health messages
- Using mass media

COMMUNICATION & EDUCATIONAL TECHNOLOGY

Text book

Neerja K.P. Textbook of Nursing Education, 1st Edition, Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, 2003

Reference

Bhatia K and Bhatia B.D. The Principles and Methods of Teaching, Doaba House Booksellers & Publishers, New Delhi 1998

Agarwal J.C. Educational, Vocational Guidance and Counseling, Doaba House Booksellers & Publishers, New Delhi, 1998

Gilbert J.J. Educational Handbook for Health Personnel, 6th Edition, CBS Publishers & Distributors, New Delhi, 1991

Goa University
4 year BSc- Nursing
Subject: Genetics

Placement: Second Year

Time: 15 hours

Course Description: This course is designed to enable students to acquire understanding of Genetics, its role in causation and management of defects and diseases

Unit No and Name:- I Introduction :
Hours 3

- Practical application of genetics in nursing
- Impact of genetic condition on families
- Review of cellular division
Mitosis and meiosis.
- Characteristics and structure of genes
- Chromosomes – sex determination
- Chromosomal aberrations, Patterns of inheritance
 - Mendelian theory of inheritance
 - Multiple allots and blood groups
 - Sex linked inheritance
 - Mechanism of inheritance
 - Errors in transmission
(Mutation)

Unit No and Name: -II Maternal, prenatal and genetic influences on development of defects and diseases
Hours 3

- Conditions affecting the mother: Genetic and infections
 - Consanguinity atopy
 - Prenatal nutrition and food allergies
 - Maternal age
 - Maternal drug therapy
 - Prenatal testing and diagnosis
 - Effect of radiation, drugs and chemicals
 - Infertility
 - Spontaneous abortion
 - Neural Tube Defects and the role of folic acid in lowering the risks
 - Down syndrome (Trisomy 21)

Unit No and Name: - III Genetic testing in the neonates and children

**Hou
rs 2**

- Screening for

- Congenital abnormalities
 - Developmental delay
 - Dysmorphism

Unit No and Name: -IV_Genetic conditions of adolescents and adults Hours 2

- Cancer genetics – Familial cancer
- Inborn errors of metabolism
- Blood group alleles and hematological disorder
- Genetic haemochromatosis
- Huntington’s disease
- Mental illness

Unit No and Name:- V Services related to Genetics

Hours 5

- Genetic testing
 - Human Genome project
 - Gene therapy
 - The Eugenics movement
- Genetic Counselling Legal and Ethical issues Role of nurse

GENETICS

Text book

Navneet Kumari, Essential Genetics for Nursing Students, 1st Edition, Lotus Publishers, Jalandhar, 2008

Goa University
4 year BSc- Nursing

Subject: Medical Surgical Nursing (Adult including Geriatrics) –I Practical

Placement: Second Year

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Areas: General Medical Ward (*Respiratory, GI, Endocrine, Renal, Hematology)

Duration (in week) 6

| Objectives | Skills | Assignments | Assessment Methods |
|--|--|---|---|
| <ul style="list-style-type: none"> • Provide nursing care to adult patients with medical disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Assessment of the patient • Taking history • Perform general and specific physical examination. • Identify alterations and deviations • Practice medical surgical asepsis-Standard safety measures • Administer medications <ul style="list-style-type: none"> - Oral, IV, IM, subcutaneous • IV therapy <ul style="list-style-type: none"> - IV canulation - Maintenance and Monitoring • Oxygen therapy by different methods • Nebulization | <ul style="list-style-type: none"> • Plan and give Care to 3-4 assigned patients • Nursing care plan – 2 • Nursing case study/ Presentation-1 • Drug presentation – 1 • Maintain drug book • Maintain practical record book | <ul style="list-style-type: none"> • Assess performance rating scale • Asses each skill with checklist • Evaluation of case study presentation • Completion of practical record |

| | | | |
|--|--|--|--|
| | <ul style="list-style-type: none"> • Chest physio therapy • Naso gastric feeding • Assist in common diagnostic tests • Perform/Assist in therapeutic procedures • Blood and component therapy • Throat Suctioning • Collect specimens for common investigations. • Maintain elimination <ul style="list-style-type: none"> - Catheterisation - Bowel wash - Enema - Urinary drainage <p>Maintain Intake, output and documentation</p> <p>Counsel and teach related to specific disease conditions</p> | | |
|--|--|--|--|

Area: General Surgical Ward (GI, Urinary, CTVS)

Duration (in week)

6

| Objectives | Skills | Assignments | Assessment Methods |
|--|---|---|---|
| <ul style="list-style-type: none"> • Provide pre and post operative nursing care to adult patients with surgical disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Practice medical surgical asepsis-standard safety measures • Pre operative preparation of patients • Post operative care- Receiving pt, assessment, monitoring, care • Care of wounds and drainage • Suture removal • Ambulation and exercise • Naso gastric aspiration • Care of chest drainage • Ostomy care <ul style="list-style-type: none"> - Gastrostomy | <ul style="list-style-type: none"> • Plan and give care to 3 - 4 assigned patients • Nursing care plan – 2 • Nursing case study/presentation – I • Maintain drug book | <ul style="list-style-type: none"> • Assess Performance with rating scale • Assess each skill with checklist • Evaluation of case study/ presentation • Completion of activity record |

| | | | |
|--|---|--|--|
| | <ul style="list-style-type: none"> - Colostomy - Enterostomy • Blood and component therapy • Practice universal precautions | | |
|--|---|--|--|

Area: Cardiology Ward

Duration (in week) 2

| Objectives | Skills | Assignments | Assessment Methods |
|--|--|--|--|
| <ul style="list-style-type: none"> • Provide nursing care to patients with cardiac disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Physical examination of the cardio vascular system Recording and interpreting ECG • Monitoring of patients • Preparation and assisting in Non-invasive and invasive diagnostic procedures. • Administer cardiac drugs • Cardio pulmonary resuscitation • Teach patients and families • Practice medical and surgical asepsis-Standard safety measures | <ul style="list-style-type: none"> • Plan and give care to 2-3 assigned patients • Nursing care plan – 1 • Nursing case study/presentation /health talk-1 • Maintain drug book | <ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/presentation/health talk Completion of activity record |

Area: Skin & Communicable diseases Ward

Duration (in

week) 1

| Objectives | Skills | Assignments | Assessment Methods |
|--|--|---|--|
| <ul style="list-style-type: none"> • Identify skin problems • Provide nursing care to patients with skin disorders & communicable diseases • Counsel and educate patients and | <ul style="list-style-type: none"> • Assessment of patients with skin disorders • Assist in diagnostic and therapeutic procedures • Administer topical medication • Practice medical surgical asepsis-Standard safety measures • Use of personal protective | <ul style="list-style-type: none"> • Plan and give care to 2-3 assigned patients • Health talk/counseling HIV positive patients and families – 1 • Maintain drug | <ul style="list-style-type: none"> • Assess performance with rating scale • Evaluation health talk/counseling session Completion of activity record |

| | | | |
|----------|--|------|--|
| families | equipment (PPE) <ul style="list-style-type: none"> • Give Medicated baths • Counseling HIV • Positive patients Teach prevention of infectious diseases. | book | |
|----------|--|------|--|

Area: Orthopaedic Ward

Duration (in week) 2

| Objectives | Skills | Assignments | Assessment Methods |
|---|--|--|--|
| <ul style="list-style-type: none"> • Provide nursing care to patients with musculo-skeletal disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Assessment of orthopedic patients • Assist in application of plaster cast and removal of cast • Apply skin traction-Buck's extension traction. • Assist in application and removal of prosthesis • Physiotherapy-Range of motion exercise (ROM), muscle strengthening exercises • Crutch maneuvering technique. • Activities of daily living • Ambulation Teach and counsel patients and families | <ul style="list-style-type: none"> • Plan and give care to 2-3 assigned patients • Nursing care plan-1 • Nursing case study/ presentation – 1 • Maintain drug book | <ul style="list-style-type: none"> • Assess performance with rating scale • Evaluation of nursing care plan and nursing case study/ presentation Completion of activity record |

Area: Operation Theatre

Duration (in week) 6

Duration (in week) 6

| Objectives | Skills | Assignments | Assessment Methods |
|--|---|--|---|
| <ul style="list-style-type: none"> • Identify instruments used in common operations • Participate in infection control practices in the operation theatre • Set-up the table/trolleys for common operative procedures • Assist in giving | <ul style="list-style-type: none"> • Scrubbing, gowning, gloving • Identify instruments, suturing materials for common operations • Disinfection, carbolization fumigation • Preparation of instrument sets for common operations • Sterilization of sharps and other instruments • Prepare the OT table depending upon the operation | <ul style="list-style-type: none"> • Assist as a circulatory nurse in <ul style="list-style-type: none"> - Major cases – 10 - Minor cases -5 • Assist as a scrub nurse in <ul style="list-style-type: none"> - Major cases -10 - Minor cases-5 • Maintain drug book | <ul style="list-style-type: none"> • Assess performance with rating scale • Completion of activity record |

| | | | |
|---|---|--|--|
| anesthesia <ul style="list-style-type: none"> • Assist in the operative • Procedures • * Provide peri operative nursing care | <ul style="list-style-type: none"> • Positioning and monitoring of patients Endotracheal intubation • Assisting in minor and major operations. • Handling specimens Disposal of waste as per the guidelines | | |
|---|---|--|--|

Internship

Area: 1CU, CCU, Cardiac OT

Duration (in week) 2

| Objectives | Skills | Assignments | Assessment Methods |
|---|---|---|--|
| <ul style="list-style-type: none"> • To gain proficiency in ICU nursing • Develop advance skill in special procedures in Critical care unit • Identify potential problems and provide care accordingly • Skill in setting and handling the ventilator • Administer injection in infusion pump • Record findings& medications accurately | <ul style="list-style-type: none"> • Assist in arterial puncture for blood gas analysis • Perform ECG and interpret accordingly • Conduct and analyse pulse oximetry • Assist in endotracheal intubation • Setting up the ventilallator • Drug sheet • Observation of special procedures in OT | <ul style="list-style-type: none"> • Arterial puncture - 5 • Taking ECG strip – 5 • Tracheal suction – 5 • Nursing care for all assigned patients • Oxygen administration by CPAP masks and use of Ambu bag • Assessment for all assigned patients • Nursing Care for patients on ventilator • Drug sheet | <ul style="list-style-type: none"> • Record book • Check with supervisor |

Area: Neuro ICU, ITU, OT

Duration (in week) 2

| Objectives | Skills | Assignments | Assessment Methods |
|---|---|---|--|
| <ul style="list-style-type: none"> • Develop skill in neurological | <ul style="list-style-type: none"> • Assess neurological status. | <ul style="list-style-type: none"> • Assessment for all assigned | <ul style="list-style-type: none"> • Record book • Observation checklist |

| | | | |
|---|---|---|--|
| assessment. <ul style="list-style-type: none"> • Give care to the pt with head injury and spinal injury. • Care with chest surgery and cranial surgery | <ul style="list-style-type: none"> • Implement care to head injury spinal injury patients. • Drug sheet. Pre and postoperative care with neuro surgery patients | patients. <ul style="list-style-type: none"> • Nursing care plan -2 • Drug sheet | |
|---|---|---|--|

Area: Burns and plastic (Reconstructive surgery)

Duration (in week) 2

| Objectives | Skills | Assignments | Assessment Methods |
|--|--------------|-------------|--------------------|
| <ul style="list-style-type: none"> • Assess the • Severity of burns. • Administer rehydration therapy. • Observe reconstructive surgery. | Nursing care | | |

Area: OT Laproscopic, Orthopaedic, Eye, ENT week) 3

Duration (in

| Objectives | Skills | Assignments | Assessment Methods |
|--|--|---|--------------------|
| <ul style="list-style-type: none"> • Identify instruments • Assist in OT set up • Supervise • Sterilization. • Assist in OT table lay out. • Observe immediately after operation. • Supervise infection control | Setting up OT Care of client during and immediate post up | <ul style="list-style-type: none"> • Assist – 5 cases. | Record book |

Goa University
II year BSc- Nursing
Medical Surgical Nursing (Adult including Geriatrics)-I

Placement: Second Year
- 215 hours

Time Theory

Practical –

720 hours

Course Description: The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Unit No and Name:- I Introduction:
15

Hours

- Introduction to medical surgical nursing-Evolution and trends of medical and surgical nursing
- Review of concepts of Health and illness Disease concepts, causations, classification-International Classification Diseases (ICD-10 or later version), Acute illness Chronic illness & Terminal illness, stages of illness
- Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process.
- Role of Nurse, patient and family in care of adult patient
- Role and responsibilities of a nurse in medical surgical settings:
 - Outpatient department.
 - In-patient unit
 - Intensive care unit.
 - Home and Community Settings
- Introduction to Medical Surgical asepsis
 - Inflammation and Infection
 - Immunity
 - Wound healing
- Care of Surgical Patients
 - Pre-operative
 - Intra operative
 - Post Operative

Unit No and Name:-II Common signs and symptoms and management Hours 15

- Fluid and electrolyte imbalance.
- Vomiting
- Dyspnea and cough, respiratory obstruction
- Fever
- Shock
- Unconsciousness, Syncope
- Pain

- Incontinence
- Edema
- Age related problems – geriatric

**Unit No and Name:-III Nursing management of patients (adults including elderly)
with respiratory problems
Hours 20**

- Review of anatomy and physiology of respiratory system,
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology,

Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adults including elderly with-

- Upper Respiratory tract infections.
- Bronchitis
- Asthma
- Emphysema
- Empyema
- Atelectasis
- Chronic Obstructive Pulmonary Diseases (COPD)
- Bronchiectasis
- Pneumonia
- Pulmonary tuberculosis
- Lung abscess
- Pleural effusion
- Cysts and Tumours
- Chest injuries
- Respiratory arrest and insufficiency
- Pulmonary embolism

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of respiratory disorders

**Unit No and Name:-IV Nursing management of patient (adults including elderly)
with disorders of digestive system
Hours 30**

- Review of anatomy and physiology of digestive system
- Nursing Assessment –history and Physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management
- Disorders of
 - Oral cavity- lips, gums, tongue, salivary glands and teeth
 - Oesophagus – inflammation, Stricture, obstruction, bleeding and tumours

- Stomach and duodenum-hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis
 - Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation
 - Large intestinal disorders-Colitis, inflammation and infection, obstruction and tumour and lump
 - Hernias
 - Appendix-inflammation, mass, abscess, rupture
 - Anal & Rectum hemorrhoids, fissures, Fistulas
 - Peritonitis/acute abdomen
 - Pancreas: inflammation, cyst, abscess and tumours
 - Liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours
 - Gall Bladder: inflammation, obstruction, stones and tumours
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of digestive system

Unit No and Name:-V Nursing management of patient (Adults including elderly) with blood and cardio vascular problems
Hours 30

- Review of anatomy and physiology of blood and cardio vascular system,
- Nursing Assessment- History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of –
- Vascular system
 - Hypertension, Hypotension
 - Artherosclerosis
 - Raynaud's disease
 - Aneurysm and Peripheral vascular disorders

Heart

- Coronary artery diseases
 - Ischemic Heart Disease
 - Coronary atherosclerosis
 - Angina pectoris
 - Myocardial infarction
- Valvular disorders of the heart
 - Congenital and acquired
 - Rheumatic heart diseases
 - Endocarditis, Pericarditis, Myocarditis
- Cardio Myopathies
- Cardiac dysrhythmias, Heart Block
- Congestive cardiac failure

- Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade
- Cardiac emergencies and arrest
- Cardio Pulmonary Resuscitation (CPR)

Blood

- Anaemias
 - Polycythemia
 - Bleeding disorders: clotting factor defects and platelets defects
 - Thalassemia
 - Leukaemias
 - Leukopenias and agranulocytosis
 - Lymphomas
 - Myelomas
- Special therapies
 - Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.
 - Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion Committee. Bio-safety and waste management in relation to blood transfusion.
 - Role of a nurse in Organ donation, retrieval and banking
- Alternative therapies
Nursing procedures,
Drugs used in treatment of blood and cardio vascular disorders

Unit No and Name:-VI Nursing management of patient (adults including elderly) with genitor urinary problems

Hours 10

- Review of anatomy and physiology of genito – urinary system
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of –
- Congenital disorders
- Nephritis
- Nephrotic syndrome
- Nephrosis
- Renal calculus
- Tumours
- Acute renal failure
- Chronic renal failure (Including Dialysis, renal transplant)
- Urinary infections

- Disorders of ureter, urinary bladder and urethra-inflammation, infection, stricture, obstruction, tumour, prostrate
- Special therapies, alternative therapies
Nursing procedures
Drugs used in treatment of genitourinary disorders

Unit No and Name:-VII Nursing management of disorders of male (adults including elderly) reproductive system
Hours 5

- Review of anatomy and physiology of male reproductive system
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, Clinical manifestations diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system
- Congenital malformations: cryptorchidism, Hypospadiasis, Epispadiasis
- Infections and inflammation of Testis, adjacent structures and Penis
- Prostate: inflammation, infection, hypertrophy,(Benign prostate hypertrophy) tumour
- Sexual Dysfunction
- Infertility
- Contraception
- Breast: gynecomastia, tumour
- Climacteric changes

Special therapies, alternative therapies
Nursing procedures
Drugs used in treatment of disorders of male reproductive system

Unit No and Name:-VIII Nursing management of patient (adults including elderly) with disorders of endocrine system
Hours 10

- Review of anatomy and physiology of endocrine system
- Nursing Assessment- History and Physical assessment
- Etiology, Pathophysiology clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of-
 - Thyroid - Grave's diseases Hypothyroidism, Goitre and tumor
 - Parathyroid - hyper and hypoparathyroidism
 - Pancreas - Diabetes mellitus
 - Pituitary disorders and Diabetes insipidus
 - Adrenal - Cushing syndrome, Addison's disease and tumour

Special therapies, alternative therapies
Nursing procedures

Drugs used in treatment of disorders of endocrine system

Unit No and Name: IX Nursing management of patient (adults including elderly) with disorders of integumentary system

Hours 10

- Review of anatomy and physiology of skin and its appendages
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages
 - Lesions and abrasions
 - Infection and infestations: Dermatitis
 - Dermatoses: infectious and Non infectious Inflammatory dermatoses
 - Acne Vulgaris
 - Allergies and Eczema
 - Psoriasis
 - Malignant melanoma
 - Alopecia

Special therapies, alternative therapies

Nursing procedures Drugs used in treatment of disorders of Integumentary system

Unit No and Name: X Nursing management of patient (adults including elderly) with musculoskeletal problems

Hours 15

- Review of anatomy and physiology of musculoskeletal system ,
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical surgical, dietetics & nursing management of –
- Disorders of :
 - Muscles, Ligaments and Joint-inflammation, infection, trauma
 - Bones-inflammation Infection, dislocation, fracture, tumour and trauma
 - Osteomalacia and osteoporosis
 - Arthritis
 - Congenital deformities
 - Spinal column-defects and deformities, tumor, Prolapsed inter vertebral disc, Pott's spine
 - Paget's disease
- Amputation
- Prosthesis
- Transplant & replacement Surgeries
- Rehabilitation

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of musculoskeletal system

Unit No and Name: XI Nursing management of patient (adults including elderly) with Immunological problems

Hours 10

- Review of immune system,
- Nursing Assessment- History and Physical assessment
- Etiology Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical surgical, dietetics & nursing management of-
 - Immunodeficiency disorder
 - Primary immuno deficiency.
 - Phagocytic dysfunction
 - B-cell and T-cell deficiencies
 - Secondary immunodeficiencies
 - Acquired immunodeficiency Syndrome (AIDS)
 - Incidence of HIV & AIDS
 - Epidemiology
 - Transmission-Prevention of Transmission
 - Standard Safety precautions
 - Role of Nurse: Counseling
 - Health education and home care consideration.
 - National AIDS Control Program-NACO, Various National and international agencies
 - Infection control program
 - Rehabilitation

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of immunological system

Unit No and Name: XII Nursing management of patient (adults including elderly) with communicable diseases

Hours 20

- Overview of infections disease, the infectious process
- Nursing Assessment- History and physical assessment
- Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietetics. Control and eradication of common communicable diseases -
 - Tuberculosis
 - Diarrhoeal diseases
 - Hepatitis A-E
 - Herpes

- Chickenpox
 - Smallpox
 - Typhoid
 - Meningitis
 - Gas gangrene
 - Leprosy
 - Dengue
 - Plague
 - Malaria
 - Diphtheria
 - Pertussis
 - Poliomyelitis
 - Measles
 - Mumps
 - Influenza
 - Tetanus
 - Yellow fever
 - Filariasis
 - HIV, AIDS
 - Reproductive Tract Infections
 - Special Infection control Measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of communicable diseases

Unit No and Name: XIII Peri operative nursing

Hours 25

- Organization and Physical set up of the operation theatre (OT):
 - Classifications
 - O.T. Design
 - Staffing
 - Members of the OT team.
 - Duties and responsibilities of nurse in O.T
 - Principles of Health and operation room attire.
 - Instruments,
 - Sutures and suture materials
 - Equipments
 - O.T. tables and sets for common surgical procedures
 - Positions and draping for common surgical procedures
 - Scrubbing procedures
 - Gowning and gloving
 - Preparation of O.T. sets
 - Monitoring the patient during surgical procedures
- Maintenance of therapeutic environment in O.T.
- Standard Safety measures

- Infection control: Fumigation, disinfection and sterilization
- Biomedical waste management
- Prevention of accidents and hazards in O.T.
- Anesthesia
 - Types
 - Methods of administration
 - Effects and stages
 - Equipments
 - Drugs
- Cardio pulmonary Resuscitation (CPR)
- Pain management techniques
- Legal Aspects

MEDICAL SURGICAL NURSING I & II

Text book

Smeltzer, Suzanne C., Bare, Brenda B, Hinkle, Janice L and Cheever, Kerry H, Brunner & Suddarth's Textbook of Medical & Surgical Nursing, 11th Edition, Lippincott, Philadelphia Indian Reprint 2009

Reference

Black, Joyce M, and Hawks J. H. Medical Surgical Nursing Clinical Mangement for Positive Outcome, 7th Edition, Saunders Publishers St. Louis, Missouri 2005

Goa University
4 year BSc- Nursing
Subject: Pathology

Placement: Second Year
– 30 hrs

Time: Theory

Course Description: This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

Unit and Name: - I Introduction
Hours 3

Importance of the study of pathology

- Definition of terms
- Methods and techniques
- Cellular and Tissue changes
- Infiltration and regeneration
- Inflammations and Infections
- Wound healing
- Vascular changes
- Cellular growth, Neoplasms
 - Normal and Cancer cell
 - Benign and Malignant growths
 - In situ carcinoma
- Disturbances of fluid and electrolyte imbalance

Unit and Name:-II Special pathology
Hours 5

- Pathological changes in disease conditions of various systems:
- Respiratory tract
 - Tuberculosis, Bronchitis, Pleural effusion and pneumonia,
 - Lung abscess, emphysema, bronchiectasis
 - Bronchial asthma, Chronic obstructive Pulmonary disease & tumours
- Cardio-vascular system
 - Pericardial effusion
 - Rheumatic heart disease
 - Infective endocarditis, atherosclerosis
 - Ischemia, infarction & aneurysm
- Gastro Intestinal Tract
 - Peptic ulcer, typhoid
 - Carcinoma of GI tract - buccal, oesophageal
 - Gastric & intestinal
- Liver, Gall bladder & pancreas
 - Hepatitis, Chronic liver abscess, cirrhosis
 - Tumours of liver, gall bladder and pancreas,
 - Cholecystitis

- Kidneys & Urinary tract
 - Glomerulonephritis, pyelonephritis,
 - Calculi, renal failure, renal carcinoma & cystitis
- Male genital systems
 - Cryptorchidism, testicular atrophy
- Female genital system
 - Prostatic hyperplasia
 - carcinoma penis & prostate
- Fibroids
- Carcinoma cervix and Endometrium
- Vesicular mole, choriocarcinoma
- Ectopic gestation
- Ovarian cyst & tumours
- Cancer Breast
- Central Nervous system
 - Hydrocephalus, Meningitis, encephalitis,
 - Vascular disorders- thrombosis, embolism,
 - Stroke, paraplegia, quadriplegia
 - Tumours, meningiomas, gliomas
- Metastatic tumour
- Skeletal system
 - Bone healing, osteoporosis, osteomyelitis
- Arthritis and Tumours

Unit and Name:-III Clinical pathology

Hours 4

- Various blood and bone marrow tests in assessment and monitoring of disease conditions
 - Hemoglobin
 - RBC, White cell & platelet counts
 - Bleeding time, clotting time and prothrombin time
 - Blood grouping and cross matching
 - Blood chemistry
 - Blood culture
 - Serological and immunological tests
 - Other blood tests
 - Examination of Bone marrow
 - Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

Unit and Name:-IV Examination of body cavity fluids, transudates and exudates

Hours 2

- Laboratories tests used in CSF analysis

- Examination of other body cavity fluids, transudates and exudates-sputum, wound discharge etc
- Analysis of gastric and duodenal contents
- Analysis of semen - sperm count, motility and morphology and their importance in infertility
- Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests - inference and normal values

Unit and Name:-V Urine and faeces

Hours 1

- Urine
- Physical characteristics
- Analysis
- Culture and sensitivity
- Faeces
- Characteristics
- Stool examination: occult blood, ova, parasite and cyst, reducing substance etc.
- Methods of collection for various tests, inference and normal values

PATHOLOGY

Text book

Mohan Harsh, Textbook of Pathology, 5th Edition, Jaypee Brothers Medical Publishers, New Delhi, 2005

Reference

Miller Manta, Pathophysiology Principles of Disease, 1st Edition, W.B Saunders, Pennsylvania, 1983

Goa University
4 year BSc- Nursing
Subject: Pharmacology

Placement Second Year
– 45 hours

Time: Theory

Course Description: This course is designed to enable students to acquire understanding of pharmacodynamics, pharmacokinetics, principles of therapeutics and nursing implications.

Unit No and Name:-I Introduction to pharmacology

Hours 3

- Definitions
- Sources
- Terminology used
- Types Classification
- Pharmacodynamics: Actions, therapeutic, Adverse, toxic
- Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion
- Review: Routes and principles of administration of drugs
- Indian pharmacopoeia : Legal issues
- Rational use of drugs
- Principles of therapeutics

Unit No and Name: -II Chemotherapy

Hours 6

- Pharmacology of commonly used drugs:
 - Penicillin
 - Cephalosporins
 - Aminoglycosides
 - Macrolide & Broad Spectrum Antibiotics
 - Sulfonamides
 - Quinolones
 - Antiamoebic
 - Antimalarials
 - Anthelmintics
 - Antiscabies agents
 - Antiviral & anti-fungal agents.
 - Antitubercular drugs
 - Anti leprosy drugs
 - Anticancer drugs
 - Immuno suppressants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit No and Name: -III Pharmacology of commonly used antiseptics, disinfectants and insecticides **Hours 2**

- Antiseptics: Composition, action, dosage, route ,indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse
- Disinfectants
- Insecticides

Unit No and Name: -IV Drugs acting on G.I. system **Hours 2**

- Pharmacology of commonly used
 - Antiemetics
 - Emetics
 - Purgatives
 - Antacids
 - Cholinergic
 - Anticholinergics
 - Fluid and electrolyte therapy
 - Anti diarrhoeals
 - Histamines

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -V Drugs used on Respiratory system **Hours 2**

- Pharmacology of commonly used
 - Antiasthmatics
 - Mucolytics
 - Decongestants
 - Expectorants
 - Antitussives
 - Bronchodilators
 - Bronchoconstrictors
 - Antihistamines

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -VI Drugs used on Urinary system **Hours 2**

- Pharmacology of commonly used-
 - Diuretics and antidiuretics
 - Urinary antiseptics
 - Cholinergic and anticholinergics

- Acidifiers and alkalanizers
- Composition , action, dosage, route, indications contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -VII Miscellaneous

Hours 4

- Drugs used in de-addiction
- Drugs used in CPR and emergency
- Vitamins and minerals
- Immunosuppresants
- Antidotes
- Antivenom
- Vaccines and sera

Unit No and Name: -VIII Drugs used on skin and mucous membranes

Hours 1

- Topical applications for skin, eye, ear, nose and buccal cavity Antipruritics
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -IX Drugs acting on Nervous system

Hours 8

- Basic and applied pharmacology of commonly used:
- Analgesics and Anaesthetics
- Analgesics
- Non steroidal anti-inflammatory (NSAID) drugs
- Antipyretics
- Hypnotics and sedatives
 - Opioids
 - Non-Opioids
 - Tranquilizers
 - General and local anesthetics
 - Gases : oxygen, nitrous Oxide, carbon-dioxide
- Cholinergic and anti-cholinergics:
 - Muscle relaxants
 - Major tranquilizers
 - Anti-psychotics
 - Antidepressants
 - Anticonvulsants
 - Adrenergics
 - Noradrenergics
 - Mood stabilizers
 - Acetylcholine
 - Stimulants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -X Cardiovascular drugs

Hours 5

- Haematinics
- Cardiotonics,
- Anti anginals
- Anti-hypertensives & Vasodilators
- Anti-arrhythmics
- Plasma expanders
- Coagulants & anticoagulants
- Antiplatelets & thrombolytics
- Hypolipidemics

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: -XI Drugs used for hormonal disorders and Supplementation, contraception and medical termination of pregnancy

Hours 4

- Insulin and oral hypoglycemics
- Thyroid supplements and suppressants
- Steroids, Anabolics
- Uterine stimulants and relaxants
- Oral contraceptives
- Other estrogen-progesterone preparations
- Corticotrophine & Gonadotropines
- Adrenaline
- Prostaglandins
- Calcitonins
- Calcium salts
- Calcium regulators

Composition, action dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit No and Name: XII Introduction to Drugs used in alternative systems of medicine Hours 6

- Ayurveda, Homeopathy, Unani and Siddha etc

PHARMACOLOGY

Text book

Rataboli, P.V., Clinical Pharmacology and Rational Therapeutics 5th Edition,
Arora Medical Book Publishers, Lucknow, 2007

Reference

Tripathi, K.D., Essentials of Medical Pharmacology, 5th Edition, Jaypee Brothers
Medical Publishers, New Delhi, 2003

Goa University
4 year BSc- Nursing
Subject: Sociology

Placement: Second Year
60 hours

Time: Theory

Course Description: This Course is designed to introduce the concepts of sociology related to community and social institutions in India and its relationship with health, illness and nursing.

Unit No and Name:- I Introduction
Hours 1

- Definition of Sociology
- Nature and Scope of the discipline
- Importance and application of Sociology in Nursing

Unit No and Name:- II Individual & Society
Hours 3

- Society and Community
- Nature of Society
- Difference between society and community
- Process of Socialization and individualization
- Personal disorganization

Unit No and Name:- III Culture
Hours 3

- Nature of culture
- Evolution of culture
- Diversity and uniformity of culture
- Culture and socialization
- Transcultural society
- Influence on health and disease

Unit No and Name:- IV Social groups and Processes
Hours 4

- The meaning and classification of groups
- Primary & Secondary Group
- In-group V/s. Out-group, Class Tribe, Caste
- Economic, Political, Religious groups, Mob, Crowd, Public and Audience
- Interaction & Social Processes
- Cooperation, Competition, Conflict

- Accommodation, Assimilation & Isolation

Unit No and Name:- V Population

Hours 6

- Society and population
- Population distribution in India - Demographic characteristics
- Malthusian theory of Populations
- Population explosion in India and its impact on health status
- Family welfare programmes

Unit No and Name:- VI Family and Marriage

Hours 5

- Family-Functions
- Types-Joint, Nuclear, Blended and extended family: Characteristics
- The Modern Family –Changes, Problems –Dowry etc., Welfare services
- Changes & legislation on family and marriage in India –marriage acts
- Marriage: Forms and functions of marriage,
- Marriage and family problems in India
- Family, Marriage and their influence on health and health practices

Unit No and Name:- VII Social Stratification

Hours

7

- Meaning & types of social stratification
- The Indian Caste System-origin & features
- Features of Caste in India Today
- Social Class system and status
- Social Mobility-Meaning & Types
- Race as a biological concept, criteria of racial classification
- Salient features of Primary races-Racism
- Influence of Class, Caste and Race on health and health practices

Unit No and Name:- VIII Types of Communities in India (Rural, Urban and Regional) Hours 6

- Features of village community & Characteristics of Indian Villages-Panchayat system, social dynamics
- Community Development project & planning
- Changes in Indian Rural Life
- Availability of health facilities in rural and its impact on health and health practices
- Urban – Community – features
- The growth of cities: Urbanization and its impact on health and health practices
- Major Urban problems-Urban slums

- Region: Problems and impact on Health

Unit No and Name:- IX Social Change

Hours 4

- Nature and process of social change
- Factors influencing social change, cultural change, cultural lag.
- Introduction to Theories of social change : Linear, Cyclical, Marxian, Functional
- Role of nurse - Change agents

Unit No and Name:- X Social organization and social system
4

Hours

- Social organization : elements, types
- Democratic and authoritarian modes of participation,
- Voluntary associations
- Social system: Definition and Types of social system
- Role and Status as structural elements of social system
- Inter-relationship of institutions

Unit No and Name:- XI Social Control
Hours 2

- Nature and process of social control
- Political, Legal, Religious, Educational Economic Industrial and Technological systems, Norms
& Values-Folkways & Mores, Customs, Laws and fashion Role of nurse

Unit No and Name:- XII Social Problems
Hours 15

- Social disorganization
- Control & planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, Vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/ AIDS.
- Social Welfare programmes in India Role of nurse

SOCIOLOGY

Text book

Pothen K.P. and Potten S. Sociology for Nurses, 2nd Edition, N.R. Brothers, Indore, 2002

Reference

Sachdeva D.R., and Bhushan V., An Introduction to Sociology, 40th Edition, Kitab Mahal Allahabad, 2006

Neerja K.P. Textbook of Sociology for Nursing Students, 1st Edition, Jaypee
Brothers Medical Publishers, New Delhi 2005

**Goa University
Child Health Nursing**

**Placement: Third Year
Theory 90 Hours**

Time –

270 Hours

Practical -

(Internship – 145 hours)

Course Description: This Course is designed for developing an understanding of the modern approach to child-care, identification, prevention and nursing management of common health problems of neonates and children.

Unit No and Name: I Introduction Modern concepts of child care.

Hours 15

- Internationally accepted rights of the child.
- National policy and legislations in relation to child health and welfare.
- National programmes related to child health and welfare
- Agencies related to welfare services to children.
- Changing trends in hosp care, preventive, promotive, curative, aspects of child health
- Child morbidity and mortality rates
- Differences between an adult and child
- Anatomical and physiological differences between the children and adults
- Hospital. environment for a sick child
- Impact of hospitalization on child and family.
- Grief and bereavement
- The role of a child health nurse in caring for hospitalized child
- Principles of pre and post operative care of infants and children
- Child health nursing procedures

Unit No and Name: II. The healthy child

Hours: 20

- Principles of growth and development.
- Factors affecting growth and development.
- Growth and development from birth to adolescence
- The needs of normal children through the stages of development and parental guidance required at all stages of development
- Nutritional needs of children and: infants - breast feeding, exclusive breast feeding, supplementary\ artificial feeding and weaning,
- Baby friendly hospital concept.
- Accidents causes and prevention
- Value of play and selection of play material
- Preventivepaediatrics-
- Preventive immunization immunization programme and cold chain.
- Care of under fives and under fives clinic/ well baby clinics.

Unit No and Name: III. Nursing Care of a Neonate

Hours: 15

- Nursing care of a normal new born/ Essential newborn care
- Neonatal resuscitation
- Nursing management of a low birth weight baby.
- Kangaroo mother care
- Nursing management of common neonatal. disorders.
- Organization of neonatal unit
- Identification & nursing management of common congenital malformations

Unit No and Name: IV Integrated management of neonatal and childhood illnesses (IMNCI)

Hours: 10

Unit No and Name: V Identification, treatment and nursing management in common childhood diseases.

Hours: 20

- Nutritional deficiency disorders. (P.E.M, micronutrient deficiencies)
- Respiratory disorders and infections (A.R.I.-Pneumonia, wheezing child – Bronchial asthma, U.R.I., Tonsillitis, Stridor)
- Gastrointestinal infections, infestations and congenital disorders(pyloric stenosis, acute/chronic diarrheas, dysentery, common worm infestations)
- Cardio vascular problems: (VSD, ASD, TOF, rheumatic fever, rheumatic heart disease.)
- Genito- urinary disorders: (acute glomerulo nephritis, nephrotic syndrome, Wilms tumor, infections hydronephrosis, acute and chronic renal failure)
- Neurological infections and disorders (convulsions, epilepsy, meningitis, encephalitis hydrocephalous)
- Hematological disorders (Anemias, thalessemia, ITP, leukemia, hemophilia)
- Endocrine disorders (juvenile diabetes Mellitus, Congenital hypothyroidism)
- Orthopedic disorders (club feet, hip dislocation and fracture)
- Disorder of skin (Contact dermatitis, fungal infections and bacterial infections), eye (conjunctivitis, squint and glaucoma), ear (otitis media)
- Common communicable diseases in children, (chicken pox, measles, mumps, pertussis, poliomyelitis, rubella, tetanus, diphtheria) their identification, nursing management in hospital and home and prevention.
- Child Health emergencies: poisoning, foreign bodies, hemorrhage, burns and drowning
- Nursing care of infants and children with HIV/AIDS

Unit No and Name: VI Management of Behavioral & social problems in children

Hours 10

- Management of common behavioral disorders (Habit disorders-finger sucking, nail biting, grinding teeth, tics) (Conduct disorders- stealing, lying, accident prone behavior)
- Management of common psychiatric problems.
- Management of challenged children - Mentally, Physically and socially challenged.
- Welfare services for challenged children in India.
- Child guidance clinics

CHILD HEALTH NURSING

Text book

Wong, D., Whaley and Wong's, Nursing Care of Infants and Children, 9th Edition, C.V. Mosby Company, St. Louis, 2011

Reference

Marlow, Dorothy R., and Redding Barbara A, Textbook of Pediatric Nursing, 6th Edition, Elsevier Publishers, St. Louis, 2006

Child Health Nursing Practical

**Placement of Third Year:
hours (9 Weeks)**

Time: 270

**Fourth Year
145 hours (3 Weeks)**

Internship:

Area: Pediatric Medicine Ward Duration (in Weeks) 3

| Objective | Skills | Assignments | Assessment methods |
|---|--|---|--|
| <ul style="list-style-type: none"> • Provide nursing care to children with various medical disorders • Counsel and educate parents. | <ul style="list-style-type: none"> • Taking Paeditric History • Physical examination and assessment of children • Administer of oral, I/M& IV medicine/fluids • Calculation of fluids requirements • Prepare different strengths of I.V fluids • Apply restraints • Administer O2 inhalation by different methods • Give baby bath • Feed children by Katori spoon, etc | <ul style="list-style-type: none"> Give care to three assigned paediatric patients • Nursing Care Plan-1 • Case study/presentation -1 • Health Talk-1 | <ul style="list-style-type: none"> • Assess clinical performance with rating scale • Assess each skill with checklist OSCE/OSPE • Evaluation of case study presentation and Health education session • Completion of activity record |

| | | | |
|--|---|--|--|
| | <ul style="list-style-type: none"> • Collect specimens for common investigations • Assist with common diagnostic procedures • Teach mothers/parents <ul style="list-style-type: none"> ○ Malnutrition ○ Oral rehydration therapy ○ Feeding & Weaning ○ Immunization schedule ○ Play therapy ○ Specific Disease conditions | | |
|--|---|--|--|

Area: Pediatric Surgery Ward Duration (in Weeks) 3

| Objective | Skills | Assignments | Assessment methods |
|--|--|--|---|
| <ul style="list-style-type: none"> • Recognize different pediatric surgical conditions/malformations • Provide pre and post operative care to children with common paediatric surgical conditions/malformation • Counsel and educate parents. | <ul style="list-style-type: none"> • Calculate, prepare and administer I/V fluids • Do bowel wash • Care for ostomies: <ul style="list-style-type: none"> ○ Colostomy irrigation ○ Ureterostomy ○ Gastrostomy • Urinary catheterization and drainage • Feeding <ul style="list-style-type: none"> ○ Naso-gastric ○ Gastrostomy ○ Jejunostomy • Care of surgical wounds <ul style="list-style-type: none"> ○ Dressing ○ Suture removal | Give care to three assigned paediatric patients <ul style="list-style-type: none"> • Nursing Care Plan-1 • Case study/presentation -1 | <ul style="list-style-type: none"> • Assess clinical performance with rating scale • Assess each skill with checklist OSCE/OSPE • Evaluation of case study presentation and Health education session • Completion of activity record. |

Area: Pediatric OPD Immunization room Duration (in Weeks) 1

| Objective | Skills | Assignments | Assessment methods |
|---|--|---|---|
| <ul style="list-style-type: none"> • Perform | <ul style="list-style-type: none"> • Assessment of children | <ul style="list-style-type: none"> • Developme | <ul style="list-style-type: none"> • Assess clinical performance |

| | | | |
|---|--|---------------|---|
| assessment of children: Health; Development and Anthropometric • Perform Immunization • Give Health Education/Nutritional Education | ○ Health assessment ○ Developmental assessment ○ Anthropometric assessment • Immunization • Health/Nutritional Education | ntal study -1 | with rating scale • Completion of activity record. |
|---|--|---------------|---|

Area: Pediatric Medicine and Surgery ICU

Duration (in Weeks) 1 + 1

| Objective | Skills | Assignments | Assessment methods |
|---|--|--|---|
| • Provide nursing care to critically ill children | • Care of a baby in incubator/warmer • Care of a child on ventilator • Endotracheal suction • Chest physiotherapy • Administer fluids with infusion pump • Total parenteral nutrition • Phototherapy • Monitoring of babies • Cardio pulmonary resuscitation | • Nursing care plan -1 • Observation report 1 | • Assess clinical performance with rating scale • Completion of activity record. • Evaluation of observation report |

Goa University
Medical Surgical Nursing –II

Placement: Third Year

Time Theory- 120 hours
Practical-270 hours

Course Description: The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Unit No and Name: I. Nursing management of patient with disorders of Ear Nose and Throat **Hours: 15**

- Review of anatomy and physiology of the Ear Nose and Throat
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Ear Nose and Throat disorders:
 - External ear: deformities otalgia, foreign bodies, and tumours
 - Middle Ear-Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours
 - Inner ear-Meniere's Disease, labyrinthitis, ototoxicity, tumours
 - Upper airway infections-Common cold, sinusitis, ethinitis, rhinitis, pharyngitis tonsillitis and adenoiditis, peritonsillar abscess, laryngitis
 - Upper respiratory airway - epistaxis
 - Nasal obstruction, laryngeal obstruction, cancer of the larynx
 - Cancer of the oral cavity
- Speech defects and speech therapy
- Deafness
- Prevention, control and rehabilitation
- Hearing Aids, implanted hearing devices
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of Ear Nose and Throat
- Role of nurse communicating with hearing impaired and muteness

Unit No and Name: II. Nursing management of patient with disorders of eye
Hours: 15

- Review of anatomy and physiology of the eye
- Nursing Assessment-History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of eye disorders:
 - Refractive errors
 - Eyelids-infection, tumours and deformities
 - Conjunctiva-inflammation and infection, bleeding
 - Cornea-inflammation and infection
 - Lens-Cataracts

- Glaucoma
- Disorder of the uvea tract,
- Ocular tumours
- Disorders of posterior chamber and retina: Retinal and vitreous problems.
- Retinal detachment
- Ocular emergencies and their prevention
- Blindness
- National blindness control program
 - Eye Banking
 - Eye prostheses and Rehabilitation
- Role of a nurse-Communication with visually impaired patient, Eye camps
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of eye

Unit No and Name: III. Nursing management of patient with neurological disorders

Hours: 16

- Review of anatomy and physiology of the neurological system
- Nursing Assessment-History and Physical and neurological assessment and Glasgow coma scale
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders:
- Congenital malformations
- Headache
- Head Injuries
- Spinal Injuries:
 - Paraplegia
 - Hemiplegia
 - Quadraplegia
- Spinal cord compression-herniation of intervertebral disc
- Tumours of the brain& spinal cord
- Intra cranial and cerebral aneurysms
- Infections:
 - Meningitis, Encephalitis, Brain abscess, neurocysticercosis
- Movement disorders
 - Chorea
 - Seizures
 - Epilepsies
- CerebroVascular Accidents(CVA)
- Cranial, Spinal Neuropathies - Bell's palsy, trigeminal neuralgia
- Peripheral Neuropathies - Guillain- Barr' e Syndrome
- Myasthenia gravis
- Multiple sclerosis
- Degenerative diseases

- Delirium
- Dementia
- Alzheimer's disease
- Parkinson's disease
- Management of unconscious patients and patients with stroke
- Role of nurses in communicating with patient having neurological deficit
- Rehabilitation of patients with neurological deficit
- Role of nurse in long stay facility (institutions) and at home
- Special therapies Nursing procedures Drugs used in treatment of neurological disorders

Unit No and Name: IV Nursing management of patients with disorders of female reproductive system **Hours: 16**

- Review of anatomy and physiology of the female reproductive system
- Nursing Assessment-History and Physical assessment
- Breast Self Examination
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of disorders of female reproductive system
- Congenital abnormalities of female reproductive system
- Sexuality and Reproductive Health
- Sexual Health Assessment
- Menstrual Disorders: Dysmenorrhea, Amenorrhea, Premenstrual Syndrome
- Abnormal Uterine Bleeding: Menorrhagia, Metrorrhagia
- Pelvic Inflammatory Disease-
- Ovarian and fallopian tube disorders; infections, cysts, tumours
- Uterine and cervical disorders; Endometriosis, polyps, Fibroids, Cervical and uterine tumours, uterine displacement, Cystocele/Urethrocele/Rectocele
- Vaginal disorders; Infections and Discharges, Fistulas
- Valvular disorders; Infections, cysts, tumours
- Diseases of breast; Deformities, Infections, Cysts and Tumours
- Menopause and Hormonal Replacement Therapy
- Infertility
- Contraception; Types Methods, Risk and effectiveness
 - Spacing Methods
 - Barrier methods, Intra Uterine Devices, Hormonal, Post Conceptional Methods, etc
 - Terminal methods
 - Sterilization
- Emergency Contraception methods
- Abortion-Natural, Medical and Surgical abortion-MTP Act
- Toxic Shock Syndrome
- Injuries and Trauma; Sexual violence

Special therapies Nursing procedures Drugs used in treatment of gynecological disorders National family welfare programme

Unit No and Name: V. Nursing management of patients with Burns, reconstructive and cosmetic surgery **Hours: 10**

- Review of anatomy and physiology of the skin and connective tissues and various deformities
- Nursing Assessment-History and Physical assessment and Assessment of burns and fluid and electrolyte loss
- Etiology, Classification, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Burns and Re-constructive and Cosmetic surgery;
- Types of Re-constructive and Cosmetic surgery; for burns, congenital deformities, injuries and cosmetic purposes
- Role of Nurse
- Legal aspects
- Rehabilitation
- Special therapies
 - Psycho social aspects

Nursing procedures Drugs used in treatment of Burns, reconstructive and cosmetic surgery

Unit No and Name: VI. Nursing management of patients with oncological conditions **Hours: 10**

- Structure & characteristics of normal & cancer cells
- Nursing Assessment-History and Physical assessment
- Prevention, Screening, Early detection, Warning signs of cancer
- Epidemiology, Etiology, Classification, Pathophysiology, Staging, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of oncological conditions
- Common malignancies of various body systems; Oral, larynx, ling, Stomach and Colon, Liver, Leukemias and lymphomas, Brest, Cervix, Ovary, Uterus, Sarcoma, Brain Renal, Bladder, Prostate etc
- Oncological emergences
- Modalities of treatment
 - Immunotherapy
 - Chemotherapy
 - Radiotherapy
 - Surgical Interventions
 - Stem cell and Bone marrow transplants
 - Gene therapy
 - Other forms of treatment
- Psychosocial aspects of cancer.
- Rehabilitation

- Palliative care; Symptom and Pain Management, Nutritional support
- Home care
- Hospice care
- Stomal Therapy
- Special therapies
 - Psycho social aspects
- Nursing procedures

Unit No and Name: VII. Nursing management of patients in Emergency & Disaster Situations

Hours: 10

Disaster Nursing

- Concepts and principles of Disaster Nursing
- Causes and Types of Disaster; Natural and Man-made
 - Earthquakes, Floods, Epidemics, Cyclones
 - Fire, Explosion, Accidents
 - Violence, Terrorism; bio-chemical, War
- Policies related to emergency/disaster management; International, national, state, institutional,
- Disaster preparedness;
- Team, Guidelines, protocols, Equipments, Resources
- Coordination and involvement of; Community, various govt. departments non-govt. organizations and International agencies
- Role of nurse; working
- Legal Aspects of Disaster Nursing
- Impact on Health and after effects; Post Traumatic Stress Disorder
- Rehabilitation; physical, psycho social, Financial, Relocation

Emergency Nursing

- Concept, priorities, principles and scope of emergency nursing
- Organization of emergency services; physical setup, staffing equipment and supplies, protocols, Concepts of triage and role triage nurse
- Coordination and involvement of different departments and facilities
- Nursing Assessment-History and Physical and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical emergency
- Principles of emergency management
- Common Emergencies
- Respiratory Emergencies
- Cardiac Emergencies
- Shock and Hemorrhage
- Pain
- Poly-Trauma, road accidents, crush injuries, wound
- Bites
- Poisoning; Food, Gas, Drugs & chemical poisoning

- Seizures
- Thermal Emergencies; Heart stroke & Cold injuries
- Pediatric Emergencies
- Psychiatric Emergencies
- Obstetrical Emergencies
- Violence, Abuse, Sexual assault
- Cardio Pulmonary Resuscitation
- Crisis Intervention
- Role of the nurse: Communication and Inter Personal Relations
- Medico-Legal Aspects;

Unit No and Name: VIII. Nursing care of the elderly

Hours: 10

- Nursing Assessment-History and Physical assessment
- Ageing
- Demography; Myths and realities
- Concepts and theories of ageing
- Cognitive Aspects of Ageing
- Normal biological ageing
- Age related body systems changes
- Psychosocial Aspects of Aging
- Medications and elderly
- Stress & coping in older adults
- Common Health Problems & Nursing Management
- Cardiovascular, Respiratory, Musculoskeletal
- Endocrine, genitor-urinary, gastrointestinal
- Neurological, Skin and other Sensory organs
 - Psychosocial and Sexual
 - Abuse of elderly
- Role of the nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual
- Role of nurse for caregivers of elderly
- Role of family and formal and non formal caregivers
- Use of aids and prosthesis (hearing aids, dentures)
- Legal & Ethical Issues
- Provisions and Programmes for elderly; privileges, Community programs and health services
- Home and institutional care

Unit No and Name: IX Nursing management of patient in critical care units

Hours: 10

- Nursing Assessment-History and Physical assessment
- Classification
- Principles of critical care nursing
- Organization; Physical setup, Policies, staffing norms,

- Protocols equipment and supplies
- Special equipments; ventilators, cardiac monitors, defibrillators,
- Resuscitation equipments
- Infection Control Protocols
- Nursing management of critically ill patient;
- Monitoring of critically ill patient
- CPR-Advance Cardiac Life support
- Treatments and procedures.
- Transitional care
- Ethical and Legal Aspects
- Communication with patient and family
- Intensive care records
- Crisis Intervention
- Death and Dying-coping with
- Drugs used in critical care unit

Unit No and Name: X Nursing management of patient adults including elderly with Occupational and Industrial disorders **Hours: 8**

- Nursing Assessment- History and Physical assessment
 - Etiology, , Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of occupational and industrial health disorders
- Role of nurse Special therapies, alternative therapies Nursing procedures
Drugs used in treatment of Occupational and Industrial disorders

MEDICAL SURGICAL NURSING I & II

Text book

Smeltzer, Suzanne C., Bare, Brenda B, Hinkle, Janice L and Cheever, Kerry H, Brunner & Suddarth's Textbook of Medical & Surgical Nursing, 11th Edition, Lippincott, Philadelphia Indian Reprint 2009

Reference

Black, Joyce M, and Hawks J. H. Medical Surgical Nursing Clinical Mangement for Positive Outcome, 7th Edition, Saunders Publishers St. Louis, Missouri 2005

Medical Surgical Nursing -II

Time: Theory- 120

hrs

Placement Third Year:

Practical-270

hrs

:

Internship-

430 hrs

Areas: ENT

Duration (in weeks) 1

| Objectives of posting | Skills to be developed | Assignments | Assessment Methods |
|--|---|---|--|
| <ul style="list-style-type: none"> • Provide care to patients with ENT disorders • Counsel and educate | <ul style="list-style-type: none"> • Perform examination of ear, nose and throat • Assist with diagnostic procedures • Assist with therapeutic | <ul style="list-style-type: none"> • Provide care to 2-3 assigned patients • Nursing care plan-1 • Observation | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale |

| | | | |
|-----------------------|---|---|--|
| patients and families | procedures <ul style="list-style-type: none"> • Instillation of drops • Perform/assist with irrigations. • Apply ear bandage • Perform tracheostomy care • Teach patients and families | reports of OPD <ul style="list-style-type: none"> • Maintain drug book | <ul style="list-style-type: none"> • Evaluation of observation report of OPD • Completion of activity record |
|-----------------------|---|---|--|

Areas: Ophthalmology

Duration (in weeks) 1

| Objectives of posting | Skills to be developed | Assignments | Assessment Methods |
|--|--|---|--|
| <ul style="list-style-type: none"> • Provide care to patients with Eye disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Perform examination Of eye. • Assist with diagnostic procedures • Assist with therapeutic procedures • Perform/assist with irrigations. • Apply ear bandage • Apply eye drops/ointments • Assist with foreign body removal. • Teach patients and families | <ul style="list-style-type: none"> • Provide care to 2-3 assigned patients • Nursing care plan-1 • Observation reports of OPD & Eye bank • Maintain drug book | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale • Evaluation of observation report of OPD /Eye bank • Completion of activity record |

Areas: Neurology

Duration (in weeks) 2

| Objectives of posting | Skills to be developed | Assignments | Assessment Methods |
|---|--|---|--|
| <ul style="list-style-type: none"> • Provide care to patients with neurological disorders • Counsel and educate | <ul style="list-style-type: none"> • Perform Neurological Examination • Use Glasgow coma scale • Assist with diagnostic procedures • Assist with | <ul style="list-style-type: none"> • Provide care to assigned 2-3 patient with neurological disorders. • Case study/Case presentation-1 • Maintains drug | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale |

| | | | |
|-----------------------|---|--|---|
| patients and families | therapeutic procedures <ul style="list-style-type: none"> • Teach patients and families • Participate in rehabilitation program | book <ul style="list-style-type: none"> • Health Teaching-1 | <ul style="list-style-type: none"> • Evaluation of case study & health teaching Completion of activity record |
|-----------------------|---|--|---|

Areas: Gynaecology ward

Duration (in weeks) 1

| Objectives of posting | Skills to be developed | Assignments | Assessment Methods |
|--|--|--|--|
| <ul style="list-style-type: none"> • Provide care to patients with gynecological disorders • Counsel and educate patients and families | <ul style="list-style-type: none"> • Assist with gynecological Examination • Assist with diagnostic procedures • Assist with therapeutic procedures • Teach patients families • Teaching self Breast Examination • Assist with PAP smear collection. | <ul style="list-style-type: none"> • Provide care to 2-3 assigned patients • Nursing care plan -1 • Maintains drug book | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale • Evaluation of care plan • Completion of activity record |

Areas: Burns Unit

Duration (in weeks) 1

| Objectives of posting | Skills to be developed | Assignments | Assessment Methods |
|------------------------------|-------------------------------|--------------------|---------------------------|
| | | | |

| | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> • Provide care to patients with Burns • Counsel and educate patients and families | <ul style="list-style-type: none"> • Assessment of the burns patient <ul style="list-style-type: none"> ○ Percentage of burns ○ Degree of burns. • Fluid & electrolyte replacement therapy <ul style="list-style-type: none"> ○ Assess ○ Calculate ○ Replace ○ Record intake/output • Care of Burn wounds. <ul style="list-style-type: none"> ○ Bathing ○ Dressing ○ Perform active & passive exercises • Practice medical & surgical asepsis • Counsel & Teach patients and families • Participate in rehabilitation program | <ul style="list-style-type: none"> • Provide care to 1-2 assigned patients • Nursing care plan -1 • Observation report of Burns unit | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale <ul style="list-style-type: none"> • Evaluation of care plan and observation report • Completion of activity record |
|--|---|---|---|

| Areas: Oncology Unit | | Duration (in Weeks) 1 | |
|---|--|--|---|
| Objective to be posting | Skills to developed | Assignments | Assessment methods |
| <ul style="list-style-type: none"> • Provide care to patients with cancer • Counsel and educate patients and families | <ul style="list-style-type: none"> • Screen for common cancers-TNM classification • Assist with diagnostic procedures <ul style="list-style-type: none"> ○ Biopsies ○ Pap smear ○ Bone-marrow aspiration • Brest examination • Assist with therapeutic procedures • Participates in various modalities of treatment <ul style="list-style-type: none"> ○ Chemotherapy ○ Radiotherapy | <ul style="list-style-type: none"> • Provide care to 2-3 assigned patients • Nursing care plan -1 • Observation report of cancer unit | <ul style="list-style-type: none"> • Assess each skill with checklist • Assess performance with rating scale <ul style="list-style-type: none"> • Evaluation of care plan and observation report • Completion of activity record |

| | | | |
|--|--|--|--|
| | <ul style="list-style-type: none"> ○ Pain management ○ Stomal therapy ○ Hormonal therapy ○ Immuno therapy ○ Gene therapy ○ Alternative therapy ● Participate in palliative care ● Counsel and teach patients families <ul style="list-style-type: none"> ○ Self Breast Examination ○ Warning signs ● Participate in rehabilitation program | | |
|--|--|--|--|

Areas: Critical care unit

Duration (in Weeks) 2

| Objective to be posting | Skills to developed | Assignments | Assessment methods |
|---|--|--|--|
| <ul style="list-style-type: none"> ● Provide care to critically ill patients ● Counsel patient and families for grief and bereavement | <ul style="list-style-type: none"> ● Monitoring of patients in ICU ● Maintain flow sheet ● Care of patient on ventilators ● Perform Endotracheal suction ● Demonstrates use of ventilators, cardiac monitors ect. ● Collect specimens and interprets ABG analysis ● Assist with arterial puncture ● Maintain CVP line ● Pulse oximetry ● CPR-ALS ● Defibrillators ● Pace makers ● Bag-mask ventilation ● Emergency tray/trolley- | <ul style="list-style-type: none"> ● Provide care to 1 assigned patient ● Observation report of Critical care unit ● Drugs book | <ul style="list-style-type: none"> ● Assess each skill with checklist ● Asses performance with rating scale ● Evaluation of observation report ● Completion of activity record |

| | | | |
|--|---|--|--|
| | Crash Cart <ul style="list-style-type: none"> • Administration of drugs <ul style="list-style-type: none"> ○ Infusion pump ○ Epidural ○ Intra thecal • Total parenteral therapy • Chest physiotherapy • Perform active & passive exercises • Counsel the patient and family in dealing with grieving and bereavement | | |
|--|---|--|--|

Areas: Casualty/Emergency

Duration (in weeks) 1

| Objective to be posting | Skills to developed | Assignments | Assessment methods |
|--|---|--|--|
| <ul style="list-style-type: none"> • Provide care to patients in emergency and disaster situation • Counsel patient and families for grief and bereavement | <ul style="list-style-type: none"> • Practice' triage" • Assist with assessment, examination, investigations& their interpretations in emergency and disaster situations • Assist in documentations • Assist in legal producers in emergency unit • Participate in managing crowd • Counsel the patient and families in grief and bereavement | <ul style="list-style-type: none"> • Observation report of Emergency unit | <ul style="list-style-type: none"> • Asses performance with rating scale • Evaluation of observation report • Completion of activity record |

Goa University
Mental Health Nursing

Placement: Third Year

Time: Theory- 90 Hours
Practical -270 Hours
Internship-95 hours (2

weeks)

Course Description: This course is designed for developing an understanding of the modern approach to mental health, identification, and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family and community.

Unit No and Name I. Introduction

Hours 5

- Perspective of Mental Health and Mental Health nursing: evolution of mental health services, treatments and nursing practices.
- Prevalence and incidence of mental health problems and disorders.
- Mental Health Act
- National Mental health policy vis a vis National Health Policy
- National Mental Health programme.
- Mental health team
- Nature and scope of mental health nursing
- Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice
- Concepts of normal and abnormal behaviour

Unit No and Name II Principles and Concept of Mental Health Nursing

Hours 5

- Definition: mental health nursing and terminology used
- Classification of mental disorders: ICD
- Review of personality development, defense mechanisms
- Maladaptive behaviour of individuals and groups: stress, crisis and disaster(s)
- Etiology: bio-psycho-social factors
- Psychopathology of mental disorders: review of structure and function of brain, limbic system and abnormal neuro transmission
- Principles of Mental Health Nursing
- Standards of Mental health Nursing practice
- Conceptual models and the role of nurse:
 - Existential Model
 - Psycho-analytical model
 - Behavioural model
 - Interpersonal model

Unit No and Name: III Assessment of mental health status

Hours

8

- History taking
- Mental status examination
- Mini mental status examination
- Neurological examination: Review
- Investigations: Related Blood chemistry, EEG,CT &MRI
- Psychological tests Role and responsibilities of nurse

Unit No and Name: IV Therapeutic communication and nurse- patient relationship
Hours 6

- Therapeutic communication: Types, techniques, characteristics
- Types of relationship,
- Ethics and responsibilities
- Elements of nurse patients contract
- Review of technique of IPR-Johari Window
- Goals, phases, tasks, therapeutic techniques
- Therapeutic impasse and its intervention

Unit No Name: V Treatment modalities and therapies used in mental disorders
Hours 14

- Psycho Pharmacology
- Psychological therapies: Therapeutic community, psycho-therapy-Individual: psycho-analytical, cognitive and supportive, Family, Group, Behavioral, Play, Psycho-drama, Music, Dance, Recreational and Light therapy, Relaxation therapies: Yoga, Meditation, bio feedback
- Alternative systems of medicine
- Occupational therapy
- Physical Therapy: electro convulsive therapy
- Geriatric considerations Role of nurse in above therapies

Unit No and Name: VI Nursing management of patient with Schizophrenia, and other psychotic disorders
Hours 5

- Classification: ICD
- Etiology, psycho-pathology,types,clinical manifestations, diagnosis
- Nursing Assessment-History, Physical and mental assessment
- Treatment modalities and nursing management of patients with Schizophrenia and other psychotic disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: VII Nursing management of patient with mood disorders
Hours 5

- Mood disorders: Bipolar affective disorder, Mania depression and dysthymia etc

- Etiology, psycho-pathology, clinical manifestations, diagnosis,
- Nursing Assessment-History, Physical and mental assessment
- Treatment modalities and nursing management of patients with mood disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: VIII Nursing management of patient with neurotic, stress related and somatization disorders
Hours 8

- Anxiety disorder, Phobias, Dissociation and Conversion disorder, Obsessive compulsive disorders, somatoform disorders, Post traumatic stress disorders,
- Etiology, psycho-pathology, clinical manifestations, diagnosis
- Nursing Assessment-History, Physical and mental assessment
- Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: IX Nursing management of patient with Substance use disorders Hrs 5

- Commonly used psychotropic substance: Classification, forms, routes, action, intoxication and withdrawal
- Etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis,
- Nursing Assessment-History, Physical, mental assessment and drug assay
- Treatment (detoxification, antabuse and narcotic antagonist therapy and harm reduction) and nursing management of patients with substances use disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: X Nursing management of patient with Personality, Sexual and Eating disorders
Hours 4

- Classification of disorders
- Etiology, psycho-pathology, characteristics, diagnosis,
- Nursing Assessment-History Physical and mental assessment
- Treatment modalities and nursing management of patients with Personality, Sexual and Eating disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: XI Nursing management of childhood and adolescent disorders including mental deficiency
Hours 6

- Classification
- Etiology psycho-pathology, characteristics, diagnosis Nursing Assessment- History, Physical, mental and IQ assessment
- Treatment modalities and nursing management of childhood disorders including mental deficiency
- Follow-up and home care and rehabilitation

Unit No and Name: XII Nursing management of organic brain disorders
Hours 5

- Classification: ICD
- Etiology psycho-pathology, clinical features, diagnosis and Differential diagnosis (Parkinson's and alzheimers)
- Nursing Assessment-History, Physical, mental and neurological assessment of organic brain disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

Unit No and Name: XIII Psychiatric emergencies and crisis intervention
Hours 6

- Types of psychiatric emergencies and their management
- Stress adaptation Model: stress and stressor, coping, resources and mechanism
- Grief: Theories of grieving process, principles, techniques of counseling
- Types of crisis
- Crisis Intervention: Principles, Techniques and Process
- Geriatric consideration: Role and responsibilities of nurse

Unit No and Name: XIV Legal issues in Mental Health Nursing
Hours 4

- The Mental Health Act 1987: Act. Sections, Articles and their implications etc.
- Indian Lunacy Act 1912
- Rights of mentally ill clients
- Forensic psychiatry
- Acts related to narcotic and psychotropic substances and illegal drug trafficking
- Admission and discharge procedures: Role and responsibilities of nurse

Unit No and Name: XV Community Mental Health Nursing
4 **Hours**

- Development of Community Mental Health Services
- National Mental Health Programme
- Institutional Versus Deinstitutionalization
- Model of preventive psychiatry: Levels of Prevention
- Mental Health Services available at the primary, secondary, tertiary levels including rehabilitation and Role of nurse
- Mental Health Agencies: Government and voluntary, National and International
- Mental health nursing issues for special populations: Children, Adolescence, Women, Elderly, Victims of violence and abuse, Handicapped, HIV/AIDS etc.

MENTAL HEALTH NURSING

Text book

Sreevani, R., Guide to Mental Health and Psychiatric Nursing, 3rd Edition
Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, 2010

Reference

Ahuja, N. A Short Textbook of Psychiatry, 7th Edition, Jaypee Brothers Medical Publishers, New Delhi (P) Ltd, 2011

Mental Health Nursing-Practical

Placement: Third Year:
9 weeks)

Time: Practical-270 hours (

weeks)

Internship-95 Hours (2

Area: Psychiatric OPD

Duration (in Weeks): 1

| Objectives | Skills | Assignments | Assessment Methods |
|---|--|--|--|
| <ul style="list-style-type: none"> • Assess patients with mental health problems • Observe and assist in therapies • Counsel and educate patient, and families | <ul style="list-style-type: none"> • History taking • Perform mental status examination (MSE) • Assist in Psychometric assessment • Perform Neurological | <ul style="list-style-type: none"> • History taking - 2 • MSE -2 • Health education -1 • Observation report of OPD | <ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of health education • Assessment of observation report • Completion of activity record. |

| | | | |
|--|--|--|--|
| | examination <ul style="list-style-type: none"> • Observe and assist in therapies • Teach patients and family members | | |
|--|--|--|--|

Areas: Child Guidance clinic

Duration (in Weeks)1

| Objectives | Skills | Assignments | Assessment Methods |
|---|---|---|--|
| <ul style="list-style-type: none"> • Assessment of children with various mental health problems • Counsel and educate children, families and significant others | <ul style="list-style-type: none"> • History taking • Assist in Psychometric assessment • Observe and assist in various therapies • Teach family and significant others | <ul style="list-style-type: none"> • Case work –1 • Observation report of different therapies-1 | <ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of the observation report |

Areas: Inpatient ward

(Duration in Weeks) 6

| Objectives | Skills | Assignments | Assessment Methods |
|---|--|--|---|
| <ul style="list-style-type: none"> • Assessment with mental health problems • To provide nursing care for patient with various mental health problems • Assist in various therapies • Counsel and educate children, families and significant others | <ul style="list-style-type: none"> • History taking • Perform mental status examination (MSE) • Perform Neurological examination • Assist in Psychometric assessment • Record therapeutic communication • Administer medications • Assist in Electro convulsive Therapy (ECT) • Participate in all therapies • Prepare patients for Activities of Daily living (ADL) • Conduct admission and discharge counseling • Counsel and teach Patients and families | <ul style="list-style-type: none"> • Give care to 2-3 patients with various mental disorders • Case study -1 • Care plan -2 • Clinical presentation 1 • Process recording 2 • Maintain drug book | <ul style="list-style-type: none"> • Asses performance with rating scale • Assess each skill with checklist • Evaluation of the case study care plan clinical presentation, process recording • Completion of activity record |

| Areas Community Psychiatry | | Duration (in Weeks) 1 | |
|--|---|--|---|
| Objectives | Skills | Assignments | Assessment Methods |
| <ul style="list-style-type: none"> • To identify patients with various mental disorders • To motivate patients for early treatment and follow up • To assist in follow up clinic • Counsel and educate patient, family and community | <ul style="list-style-type: none"> • Conduct case work • Identify individuals with mental health problems • Assists in mental health camps and clinics • Counsel and Teach family members, patients and community | <ul style="list-style-type: none"> • Case work –1 • Observation report on filed visits | <ul style="list-style-type: none"> • Assess performance with rating scale • Evaluation of case work and observation report • Completion of activity record |

Goa University
Midwifery and Obstetrical Nursing

Placement: Third Year

Time: Theory-90 Hours

Practical-180 Hours

Course Description: This Course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant women during antenatal, natal and post natal periods in hospital and community settings. It also helps to develop skills in managing normal and high risk neonates and in participating in family welfare programmes.

Unit No and Name: I Introduction to midwifery and obstetrical nursing Hours 3

- Introduction to concepts of midwifery and obstetrical Nursing
- Trends in midwifery and obstetrical Nursing
 - Historical perspectives and current trends
 - Legal and ethical aspects
 - Per-conception care and preparing for parenthood
 - Role of nurse in midwifery and obstetrical care.
 - National policy and legislation in relation to maternal health and welfare.
 - Maternal, morbidity, mortality and fertility rates
 - Perinatal, morbidity and mortality rates

Unit No and Name: II Review of anatomy and physiology of female reproductive system and foetal development Hours 8

- Female pelvis-general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape.
- Female organs of reproduction external genitalia, internal genital organs and their anatomical relations, musculature-blood-supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum.
- Physiology of menstrual cycle
- Human sexuality
- Foetal development
 - Conception
 - Review of fertilization, implantation (embedding of the ovum) development of the embryo and placenta at term-functions, abnormalities, the foetal sac, amniotic fluid, the umbilical chord.
 - Foetal circulation, foetal skull, bones, sutures and measurements.
- Review of Genetics

Unit No and Name: III Assessment and management of pregnancy (antenatal) Hours 8

- Normal pregnancy
- Physiological changes during pregnancy.
 - Reproductive system
 - Cardio vascular system
 - Respiratory system
 - Urinary system
 - Gastro intestinal system
 - Metabolic changes
 - Skeletal changes
 - Skin changes
 - Endocrine system
 - Psychological changes
 - Discomforts of pregnancy
- Diagnosis of pregnancy
 - Signs
 - Differential diagnosis
 - Confirmatory tests
- Ante-natal care
 - Objectives
 - Assessment
 - History and physical examination
 - Antenatal Examination
 - Signs of previous child-birth
 - Relationship of foetus to uterus and pelvis: Lie, Attitude, presentation, Position
 - Per vaginal examination.
- Screening and assessment for high risk:
- Risk approach
- History and physical Examination
- Modalities of diagnosis Invasive & non-Invasive, ultrasonics, cardiotography, NST,CST
 - Antenatal counseling
 - Antenatal exercises
 - Diet
 - Substance use
 - Education for child-birth
 - Husband and families
 - Preparation for safe-confinement
 - Prevention from radiation
- Psycho-social and cultural aspects of pregnancy
 - Adjustment to pregnancy
 - Unwed mother
 - Single parent
 - Teenage pregnancy
 - Sexual violence
- Adoption

Unit No and Name: IV Assessment and management of intranatal period. Hours 12

- Physiology of labour, mechanism of labour
- Management of labour.
- First stage
 - Signs and symptoms of onset of labour, normal and abnormal
 - Duration
 - Preparation of:
 - Labour room
 - Women
 - Assessment and observation of women in labour, partogram-maternal and foetal monitoring
 - Active management of labour, Induction of labour
 - Pain relief and comfort in labour
- **Second stage**
 - Signs and symptoms, normal and abnormal
 - Duration
 - Conduct of delivery, principles and techniques
 - Episiotomy(only if required)
 - Receiving the new born
 - Neonatal resuscitation, initial steps and subsequent resuscitation
 - Care of umbilical cord
 - Immediate assessment including screening for congenital anomalies
 - Screening and transportation of the neonate
- **Third stage**
 - Signs and symptoms, normal and abnormal
 - Duration
 - Method of placental expulsion
 - Management: Principles and techniques
 - Examination of the placenta
 - Examination of perineum
 - Maintaining records and reports
- **Fourth stage**

Unit No and Name: V Assessment and Management of women during post natal period

Hours

5

- Normal puerperium, physiology, duration
- Postnatal assessment and management
 - Promoting physical and emotional well-being
 - Lactation management
 - Immunization

- Family dynamics after child-birth
- Family Welfare services; methods, counseling
- Follow-up
- Records and reports

Unit No and Name: VI Assessment and management of normal neonate Hours
6

- Normal Neonate:
 - Physiological adaptation,
 - Initial & Daily assessment
 - Essential newborn care: Thermal control,
 - Breast feeding, Prevention of infections
- Immunization
- Minor disorders of newborn and its management
- Levels of Neonatal care (level I,II,&III)
- At primary, Secondary and tertiary levels
- Maintenance of Report and Records

Unit No and Name: VII High-risk pregnancy - assessment and management Hours
10

- Screening and assessment
 - Ultrasonic, Cardiotomography, NST,CST, non-invasive & invasive ,
 - Newer modalities of diagnosis
- High-risk approach
- Levels of care: primary, secondary and tertiary levels
- Disorder of Pregnancy –
 - Hyper-emesis gravidum Bleeding in early pregnancy Abortion, Ectopic
 - Pregnancy Vesicular mole
 - Ante-partum hemorrhage.
- Uterine abnormality and displacement
- Diseases complicating pregnancy
 - Medical and surgical conditions
 - Anemia, Iron deficiency and megaloblastic
 - Heart diseases
 - Hypertension (Pregnancy induced)
 - Thyroid dysfunction (hyper and hypo)
 - Diabetes and Gestational diabetes
- Infections
 - STDs, Syphilis, gonorrhea, HIV
 - Urinary tract infections
 - Pyelonephritis
 - TORCH

- Respiratory tract infections
- Pulmonary tuberculosis
- Gynecological diseases complicating pregnancy
 - Cancer of cervix
 - Fibroid with pregnancy
 - Ovarian tumors
 - Genital prolapse in pregnancy
- Toxemias of pregnancy
 - Preeclampsia
 - Eclampsia
 - Hydroaminosis
 - Polyhydroaminosis
 - Oligiohydroaminosis
- Rh incompatibility
- Mental disorders
- Adolescent pregnancy, Elderly primi and grand multipara
- Multiple pregnancy
- Abnormalities of placenta & cord
- Intra-uterine growth- retardation
- Nursing Management of mothers with high-risk pregnancy
- Maintenance of Records and Report

Unit No and Name: VIII Abnormal Labour-assessment and management
Hours 10

- Disorders in labour
 - CPD and contracted pelvis
 - Malpositions and malpresentations
 - Premature labour, disorders of uterine actions-precipitate labour, prolonged labour
 - Complications of third stage: injuries to birth canal
- Obstetrical emergencies and their management:
 - Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock
- Obstetrical procedures and operations
 - Induction of labour, forceps, vacuum version, manual removal of placenta, caesarean section, destructive operations
- Nursing Management of women undergoing Obstetrical operations and procedures

Unit No and Name: IX Abnormalities during Postnatal Periods **Hours**
4

- Assessment and management of women with postnatal complications
 - Puerperal infections, breast engorgement & infections, UTI, thrombo-Embolic disorders post-partum hemorrhage, Eclampsia and sub involution.

- Psychological complications:
 - Post Partum Blues
 - Post partum Depression
 - Post partum psychosis

Unit No and Name: X Assessment and management of High risk newborn Hours 10

- Admission of neonates in the neonatal intensive care-unit protocols
- Nursing management of:
 - Low birth weight babies
 - Infections
 - Respiratory problems
 - Hemolytic disorders
 - Birth injuries
 - Malformations
- Monitoring of high risk neonates
- Feeding of high risk neonates
- Organisation and management of neonatal intensive care units
- Infection control in neonatal intensive care units
- Maintenance of reports and records

Unit No and Name: XI Pharmaco-therapeutics in obstetrics Hours 4

- Indication, dosage, action, contra indication and side effects of drugs
- Effect of drugs on pregnancy, labour & puerperium.
- Nursing responsibilities in the administration of drug in obstetrics-oxytocins, antihypertensive, diuretics, tocolytic agents, anti-convulsants.
- Analgesics and anesthetics in obstetrics.
- Effects of maternal medication on foetus and neonate

Unit No and Name: XII National family welfare programme Hours 10

- Population trends and problems in India
- Concepts, aims, importance and history of family welfare programme
- National Population, dynamics, policy and education
- National family welfare programme: RCH, ICDS, MCH. Safe motherhood
- Organization and administration: at national, state, district, block and village levels
- Methods of contraception: spacing, temporary and permanent, Emergency contraception
- Infertility and its management
- Counseling for family welfare
- Latest research in contraception

- Maintenance of vital statistics
- Role of national, international and voluntary organizations
- Role of a nurse in family welfare programme
- Training/Supervision/Collaboration with other functionaries in community like ANMs, LHVs, Anganwadi Workers, TBAs (Traditional birth attendant-Dai)

MIDWIFERY AND OBSTETRICAL NURSING

Text book

Frazer, Diane M. & Cooper M., Myles Textbook for Midwives, 15th Edition, Churchill Livingstone, Edinburgh, 2009

Reference

Dutta, D.C., Textbook of Gynecology including Contraception 4th Edition, New Central Book Agency, Calcutta, 2003

D.C. Dutta, Textbook of Obstetrics including Perinatology and Contraception 6th Edition, New Central Book Agency, Calcutta, 2004

Midwifery and Obstetrical Nursing

Placement: Third Year

**Time: Practical-180 Hours (Third year)
Internship-240 hours**

Areas Antenatal clinic/OPD

Duration (in Week) 2

| | | | |
|------------|--------|-------------|------------|
| Objectives | Skills | Assignments | Assessment |
|------------|--------|-------------|------------|

| | | | methods |
|--|--|--|---|
| <ul style="list-style-type: none"> • Assessment of pregnant Women | <ul style="list-style-type: none"> • Antenatal history taking • Physical examination • Recording of Weight & B.P. • HB& Urine testing for sugar and albumin • Antenatal examination • Examination-abdomen and breast • Immunization • Assessment of risk status • Teaching antenatal Mothers • Maintenance of antenatal records. | <ul style="list-style-type: none"> • *Conduct Antenatal Examinations 30 • Health talk -1 • Case book recordings | <ul style="list-style-type: none"> • Verification of findings of Antenatal examinations • Completion of casebook recordings |

Areas Labour room O.T

Duration (in Weeks) 4

| Objectives | Skills | Assignments | Assessment methods |
|--|--|---|---|
| <ul style="list-style-type: none"> • Assess Women in labour • Carry out per-vaginal examinations • Conduct normal deliveries • Perform episiotomy and suture it • Resuscitate newborns • Assist with Caesarean Sections, MTP and other surgical procedures | <ul style="list-style-type: none"> • Assessment of women in labour • Pervaginal examination interpretation • Monitoring and caring of women in labour • Maintenance of partograph • Conduct normal delivery • Newborn assessment and immediate care • Resuscitation of newborns • Assessment of risk status of newborn • Episiotomy and suturing • Maintenance of labour and birth records | <ul style="list-style-type: none"> • *Conduct normal deliveries-20 • *Pervaginal examinations -5 • *perform and suture the episiotomies -5 • *Resuscitate newborns-5 • *Assist with Caesarean sections-2 • *Witness abnormal deliveries -5 • Assist with MTP and other surgical procedures | <ul style="list-style-type: none"> • Assessment of clinical performance with rating scale • Assessment of each skill with checklists • Completion of casebook recordings |

| | | | |
|--|---|--|--|
| | <ul style="list-style-type: none"> • Arrange for and assist with caesarean section and care for women & baby during Caesarean • Arrange for and assist with MTP and other surgical procedures | <ul style="list-style-type: none"> • Case book recordings | |
|--|---|--|--|

Areas Postnatal ward

Duration (in weeks) 4

| Objectives | Skills | Assignments | Assessment methods |
|--|---|--|--|
| <ul style="list-style-type: none"> • Provide nursing care to postnatal mother and baby • Counsel and teach mother and family for parent hood | <ul style="list-style-type: none"> • Examination and assessment of mother and baby • Identification of deviations • Care of postnatal mother and baby • Perineal care • Lactation management • Breast feeding • Baby bath • Immunization, • Teaching postnatal mother: <ul style="list-style-type: none"> ○ Mother craft ○ Postnatal care & Exercises ○ Immunization | <ul style="list-style-type: none"> • *Give care to postnatal mothers-20 • Health talks-1 • Case study- • Case presentation-1 • Case book recordings | <ul style="list-style-type: none"> • Assessment of clinical performance • Assessment of each skill with checklists • Completion of casebook recordings • Evaluation of case study and presentation and health education sessions |

Areas Newborn nursery

Duration (in weeks) 2

| Objectives | Skills | Assignments | Assessment methods |
|---|---|--|---|
| <ul style="list-style-type: none"> • Provide nursing care to newborn at risk | <ul style="list-style-type: none"> • Newborn assessment • Admission of neonates • Feeding of at risk neonates <ul style="list-style-type: none"> ○ Katori spoon, paladi, tube feeding, total parenteral nutrition • Thermal management of neonates- | <ul style="list-style-type: none"> • Case study-1 • Observation study -1 | <ul style="list-style-type: none"> • Assessment of clinical performance • Assessment of each skill with |

| | | | |
|--|--|--|--|
| | kangaroo mother care, care of baby in incubator <ul style="list-style-type: none"> • Monitoring and care of neonates • Administering medications • Intravenous therapy • Assisting with exchange transfusion • Care of baby on ventilator • Phototherapy • Infection control protocols in the nursery • Teaching and counselling of parents <ul style="list-style-type: none"> ○ Maintenance of neonatal records | | checklists <ul style="list-style-type: none"> • Evaluation of and observation study |
|--|--|--|--|

Areas Family Planning clinic ward 1

Duration (in weeks) Rotation from postnatal

| Objectives | Skills | Assignments | Assessment methods |
|--|---|---|---|
| <ul style="list-style-type: none"> • Counsel for and provides family welfare services | <ul style="list-style-type: none"> • Counselling technique • Insertion of IUD • Teaching on use of family planning methods • Arrange for and Assist with family planning operations <ul style="list-style-type: none"> ○ Maintenance of records and reports | <ul style="list-style-type: none"> • *IUD insertion -5 • Observation study -1 • Counselling -2 • Simulation exercise on recording and reporting-1 | <ul style="list-style-type: none"> • Assessment of each skill with checklists • Evaluation of and observation study |

* Essential Requirements for registration as midwife

| | |
|--|----|
| * Antenatal examination | 30 |
| * Conducting normal deliveries in hospital/home /health centre | 20 |
| * Vaginal examination | 5 |
| *Assisting in Episiotomy and suturing | 5 |
| * Neonatal resuscitation | 5 |
| * Assist with Caesarean Section | 2 |
| * Witness/Assist abnormal deliveries | 5 |
| * Postnatal cases nursed in hospital/home/health centre | 20 |
| * Insertion of IUD | 5 |

Note: All casebooks must be certified by teacher on completion of essential requirements

Internship Obstetrical Nursing**Internship Duration-5 weeks**

| Area | Duration weeks | Objectives | Skills | Assignments | Assessment methods |
|-----------------------------------|----------------|--|---|---|--|
| Labour ward | 2 | <ul style="list-style-type: none">• Provide comprehensive care to mothers and neonates | <ul style="list-style-type: none">• Integrated Practice | <ul style="list-style-type: none">• Completion of other essential requirements• Case book recordings | <ul style="list-style-type: none">• Assess clinical performance with rating scale• Completion of case book recordings |
| Neonatal intensive care unit/NICU | 1 | | | | |
| Antenatal | 2 | | | | |

Goa University
Community Health Nursing-II

Time: Theory - 90 hours
Practical -135 hours

Placement: Fourth year

Course description: This course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concepts and principles of health and community health nursing

Unit No and Name: I. Introduction

Hours: 4

- Definition, concept & scope of Community Health and Community Health Nursing
- Historical development of
 - Community Health
 - Community Health Nursing
 - Pre-independence
 - Post-independence

Unit No and Name: II Health planning and policies and problems Hours: 6

- National health planning in India Five Year plans
- Various committees and commissions on health and family welfare
 - Central council for health and family welfare (CCH and FW)
 - National health policies (1983, 2002)
 - National population policy
- Health problems in India

Unit No and Name: III Delivery of community health services Hours: 15

- Planning, budgeting and material management of SC, PHC and CHC
- **Rural:** Organization, staffing and functions of rural health services provided by government at:
 - Village
 - Subcentre
 - Primary health centre
 - Community health center/subdivisional
 - Hospitals
 - District
 - State
 - Centre
- **Urban:** Organization, staffing and functions of urban health services provided by government at:
 - Slums
 - Dispensaries

- Maternal and child health centers
- Special Clinics
- Hospitals
- Corporation/Municipality/Board
- Components of health services
 - Environmental sanitation
 - Health education
 - Vital statistics
 - M.C.H- antenatal, natal, postnatal; MTP Act, female foeticide act, child adoption act
 - Family Welfare
 - National health programmes
 - School health services
 - Occupational health
 - Defence services
 - Institutional services
- Systems of medicine and health care
 - Allopathy
 - Indian System of Medicine and Homeopathy
 - Alternative health care systems like yoga, meditation, social and spiritual healing etc
- Referral system

Unit No and Name: IV Community health nursing approaches, concepts and responsibilities of nursing personnel

Hours:

25

Approaches

- Nursing theories and Nursing process
- Epidemiological approach
- Problem solving approach
- Evidence based approach
- Empowering people to care for themselves
- Concepts of primary Health Care:
 - Equitable distribution
 - Community participation
 - Focus on prevention
 - Use of appropriate technology
 - Multi-sectoral approach
- Roles and responsibilities of Community health nursing personnel in
 - Family health services
 - Information Education Communication (IEC)
 - Management Information System (MIS): Maintenance of Records & reports
 - Training and supervision of various categories of health workers
 - National Health Programmes

- Environmental sanitation
- Maternal and child health and Family welfare
- Treatment of Minor ailments
- School Health Services
- Occupational Health
- Organisation of clinics, camps: Types, Preparation, planning, conduct and evaluation
- Waste management in the center, clinics etc.
- Home visit: Concept, Principles, Process, Techniques: Bag technique home visit
- Qualities of Community Health Nurse
- Job Description of Community health nursing personnel

Unit No and Name: V Assisting Individuals and Groups to Promote and Maintain their Health

Hours

15

- Empowerment for self care of individuals, families and groups in-
 - A. Assessment of self and family**
 - Monitoring growth and development
 - Mile stones
 - Weight measurement
 - Social development
 - Temperature and Blood pressure monitoring
 - Menstrual cycle
 - Breast self examination and testicles
 - Warning Signs of various disease
 - Tests: Urine for sugar and albumin, blood sugar
 - B. Seek health services for**
 - Routine checkup
 - Immunization
 - Counseling
 - Diagnosis
 - Treatment
 - Follow up
 - C. Maintenance of health records for self and family**
 - D. Continue medical care and follow up in community for various diseases and disabilities**
 - E. Carryout therapeutic procedures as prescribed/required for self and family**
 - F. Waste Management**
 - Collection and disposable of waste at home and community

G. Sensitize and handle social issues affecting health and development for self and family

- Women Empowerment
- Women and child abuse
- Abuse of elders
- Female Foeticide
- Commercial sex workers
- Food adulteration
- Substance abuse

H. Utilize Community Resources For Self And Family

- Trauma services
- Old age homes
- Orphanage
- Homes for physically and mentally challenged individuals
- Homes for destitute

Unit No and Name: VI National Health And Family Welfare Programmes And The Role Of A Nurse
20

Hours

- 1) National ARI programme
- 2) Revised National Tuberculosis Control Programme (RNTCP)
- 3) National Anti-Malaria programme
- 4) National Filaria control programme
- 5) National Guinea worm eradication programme
- 6) National Leprosy eradication programme
- 7) National Aids Control programme
- 8) STD control programme
- 9) National programme for control of blindness
- 10) Iodine deficiency disorder programme
- 11) Expanded programme on immunization
- 12) National Family Welfare Programme- RCH Programme historical development, organization, administration research, constraints
- 13) National Water supply and sanitation programme
- 14) Minimum Need programme
- 15) National Diabetics Control Programme
- 16) Polio Eradication: Pulse Polio Programme
- 17) National Cancer Control Programme
- 18) Yaws Eradication Programme
- 19) National Nutritional Anemia Prophylaxis programme
- 20) 20 point programme
- 21) ICDS programme
- 22) Mid-day meal applied nutritional programme
- 23) National mental health programme

- Health schemes
 - ESI
 - CGHS
 - Health insurance

Unit No and Name: VII Health Agencies

Hours; 5

- **International** WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (EC), Red cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc.
- **National-** Indian Red Cross, Indian Council for child Welfare, Family Planning Association of India (FPAI), Tuberculosis Association of Indian, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All Indian women's conference, Blind Association of India etc.

COMMUNITY HEALTH NURSING I & II

Text book

Gulani, K.K., Community Health Nursing Principles and Practices 1st Edition, Kumar Publishing House, New Delhi, 2005

Reference

Park, K., Park's Textbook of Preventive and Social Medicine, 20th Edition, Banarsidas Bhanot, Jabalpur, 2009

Community Health Nursing-II-Practical

Placement: Fourth Year
hours

Time: Practical-135 hours

Internship-195

Area: Community Health Nursing **Duration (in weeks)** - 1 week for Urban 4 weeks for Rural

| Objectives | Skills | Assignments | Assessment methods |
|--|---|---|---|
| <ul style="list-style-type: none"> • Identify community profile • Identify prevalent communicable and non-communicable | <ul style="list-style-type: none"> • Community health survey • Community diagnosis • Family care: Home adaptation of common procedures | <ul style="list-style-type: none"> • Community survey report-1 • Family care study -1 • Project -1 | <ul style="list-style-type: none"> • Assess clinical performance with rating scale • Evaluation of community survey report, family care |

| | | | |
|---|--|--|--|
| <p>diseases</p> <ul style="list-style-type: none"> • Diagnose health needs of Individual families and community • Plan, provide and evaluate care • Participate in school health program • Participate in national health programs • Organize group for self help and involve clients in their own health activities • Provide family welfare services • Counsel and educate individual, family and community • Collect Vital health statistics • Maintain Records & reports | <ul style="list-style-type: none"> • Home visit; Bag technique • Organize and conduct clinics antenatal, Postnatal, well baby clinic, camps etc • Screen manage and referrals for: <ul style="list-style-type: none"> ○ High risk mothers and neonates ○ Accidents and emergencies ○ Illnesses; Physical and mental Disabilities • Conduct delivery at centre/home; episiotomy and suturing • Resuscitate newborn • School Health programme <ul style="list-style-type: none"> ○ Screen, manage, refer children Collaborate with health and ailed agencies • Train and supervise health workers • Provide family welfare services; insertion of IUD • Counsel and teach individual, family and community about; HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly health, physically and mentally challenged individuals etc • Collect and Calculate Vital health statistics • Document and maintain <ul style="list-style-type: none"> ○ Individual, family and administrative records ○ Write reports-center, disease , national health programme/project | <ul style="list-style-type: none"> • Health talk-1 • Case book recording | <p>study, project and health talk</p> <ul style="list-style-type: none"> • Completion of activity record • Completion of case book recording |
|---|--|--|--|

Goa University
Management of Nursing Services and Education

Placement: Fourth year
Practical-30)

Time: 90 hrs (Theory-60 &

Course Description: This Course is designed to enable students to acquire an understanding of management of clinical and community health nursing services, nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the profession.

Unit No and Name: I Introduction to management in nursing Hours-4

- Definition, concepts and theories
- Functions of management
- Principles of Management
- Role of Nurse as a manager

Unit No and Name: II Management process Hours-7

- Planning; mission, philosophy, objectives, operational plan
- Staffing: philosophy, staffing study, norms ,activities, patient classification systems, scheduling
- Human resource management; recruiting, selecting, deployment, retaining, promoting super annuation etc
- Budgeting; concept, principles, types, cost benefit analysis, audit
- Material management; equipment and supplies
- Directing process (Leading)
- Controlling; Quality management
- Program Evaluation Review Technique (PERT), Bench marking, Activity plan (Gantt Chart),

Unit No and Name: III Management of nursing services in the hospital and community

Hours Theory -10.

Practical-20

- Planning;
 - Hospital and patient care units including ward management
 - Emergency and disaster management
- Human resource management;
 - Recruiting, selecting, deployment, retaining, promoting superannuation etc
 - Categories of nursing personnel including job description of all levels
 - Patients/population classification system
 - Patients/population assignment and Nursing care responsibilities
 - Staff development and welfare

- Budgeting: proposal, projecting requirements for staff, equipments and supplies for
 - Hospital and patient care units
 - Emergency and disaster management
- Material Management; procurement, inventory control, auditing and maintenance in
 - Hospital and patient care units
 - Emergency and disaster management
- Directing and leading delegation, participatory management
 - Assignment, rotations, delegations
 - Supervision & guidance
 - Implement Standards, policies, procedures and practices
 - Staff development and welfare
 - Maintenance of discipline
- Controlling/Evaluation
 - Nursing Rounds/Visits, Nursing protocols, Manuals
 - Quality Assurance Model, documentation-
 - Records and reports performance appraisal

Unit No and Name: IV Organizational behaviour and human relations Hours-7

- Concept and theories of organizational behaviours
- Review of Channels of communication
- Leadership styles
- Review of Motivation; concepts and theories
- Group dynamics
- Techniques of;
 - Communication; and
 - Interpersonal relationships
 - Human relations;
- Public relations in context of Nursing
- Relations with professional associations and employee unions and Collective bargaining

**Unit No and Name: V In service education Hours Theory -7,
Practical-10**

- Nature & scope of in-services education program,
- Organization of in service education
- Principles of adult learning,
- Planning for in-services education program, techniques, methods and evaluation of staff education program
- Preparation of report

Unit No and Name: VI Management of nursing educational institutions Hours-10

- Establishment of Nursing educational institution-INC norms and guidelines
- Co-ordination with-
 - Regulatory bodies
 - Accreditation
 - Affiliation-philosophy/objectives Organization
 - Structure
 - Committees – Physical facilities
 - College/School
 - Hostel-Students
 - Selection
 - Admission
 - Guidance and Counseling
 - Maintaining discipline-Faculty and staff
 - Selection
 - Recruitment
 - Job description
 - Placement
 - Performance appraisal
 - Development and welfare
- Budgeting
- Equipments and supplies; audio visual equipments, laboratory equipment, books, journals etc
- Curriculum; Planning, implementation and evaluation,
- Clinical facilities
- Transport facilities
- Institutional Records and report- administrative- faculty, staff and students

Unit No and Name: VII Nursing as a profession
Hours-10

- Nursing as a profession
 - Philosophy; nursing practice
 - Aims and objectives
 - Characteristics of a professional nurse
 - Regulatory bodies; INC,SNC Acts;- constitution, functions
 - Current trends and issues in Nursing
- Professional ethics
 - Code of ethics; INC, ICN
 - Code of Professional conduct; INC,ICN
- Practice standards for Nursing; INC
- Consumer protection act
- Legal Aspects in Nursing
 - Legal terms related to practice; registration and licensing
 - Laws related to nursing practice; Breach and penalties

- Malpractice and negligence

Unit No and Name; VIII Professional Advancement

Hours-5

- Continuing education
- Career Opportunities
- Collective bargaining
- Membership with Professional organizations; National and International
- Participation in research activities
- Publications; Journals, newspapers etc.

MANAGEMENT OF NURSING SERVICE AND EDUCATION

Text book

B.T. Basavanthappa, Nursing Administration, 1st Edition, Jaypee Brothers Medical Publishers, New Delhi, 2000

Goa University
Nursing Research and Statistics

Placement: Fourth Year
Internship

Time: Theory - 45 Hours
Practical - 45 Hours

Course Description: The Course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further, structured to conduct/participate in need based research studies in various setting and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting individual/group research project.

Unit No and Name: I Research and research process **Hours - 4**

- Introduction and need for nursing research
- Definition of Research & nursing research
- Steps of scientific method
- Characteristics of good research
- Steps of Research process-overview

Unit No and Name: II Research Problem/Question **Hours - 3**

- Identification of problem area
- Problem statement
- Criteria of a good research problem.
- Writing objectives

Unit No and Name: III Review of Literature **Hours - 3**

- Location
- Sources
- On line search; CINHALL, COCHRANE etc
- Purpose
- Method of review

Unit No and Name: IV Research approaches and designs **Hours - 4**

- Historical, survey and experimental
- Qualitative and Quantitative designs

Unit No and Name: V Sampling and data collection **Hours - 8**

- Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling techniques.
- Data-why, what, from whom, when and where to collect.
- Data collection methods and instruments;

- Methods of data collection
- Questioning, interviewing
- Observations, record analysis and measurement
- Types of instruments
- Validity & Reliability of the Instrument
- Pilot study
- Data collection procedure

Unit No and Name: VI Analysis of data

Hours - 4

- Compilation, Tabulation, classification, summarization, presentation, interpretation of data

Unit No and Name: VII Introduction to statistics

Hours -15

- Definition, use of statistics, scales of measurement.
- Frequency distribution and graphical presentation of data
- Mean, Median, Mode, Standard deviation
- Normal Probability and tests of significance
- Co-efficient of correlation.
- Statistical packages and its application

Unit No and Name: VIII Communication and Utilization of Research Hours - 4

- Communication of research findings
 - Verbal report
 - Writing research report
 - Writing scientific article/paper
 - Critical review of published research
 - Utilization of research findings

NURSING RESEARCH AND STATISTICS

Text book

Nieswaidomy Rosemary M, Foundations of Nursing Research, Pearson Education, 5th Edition, Noida, 2008

Reference

Polit Denise, Beck Cheryl T., Essentials of Nursing Research Appraising Evidence for Nursing Practice 7th Edition, Lippincott Williams & Wilkins/ Wolters Kluwer South Asian Edition, New Delhi, 2010