

**Controller of Examinations**  
**SAMBALPUR UNIVERSITY**  
**JYOTI VIHAR, BURLA,**  
**Sambalpur, Odisha, India.**  
**PIN-768 019.**



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**Web-site: www.suniv.ac.in**

**Accredited with 'A' Grade by NAAC**

**Urgent**

**( Both by post and by e- mail)**

No. 3754 / Acd.-I

Dated: 13/11/2020

To

***The Principals,***

1. SITE, A College of Nursing,  
Pallishree Vihar, Sadaipali, Dist. Bolangir – 767065.
2. Sambalpur Nursing College, Dhanupali, Sambalpur-768005.
3. Hi- Tech. Nursing College, Rourkela.
4. Dr. Amedkar Nursing College, Jagada, Rourkela -769042.
5. Divya Nursing College, Kirei, Sundargarh.
6. Rourkela Senior B.Sc. Nursing College, At. / P.O. – Sankara,  
Sundargarh - 770020

Sub: Courses of Studies for B.Sc. (Nursing) Course.

Ref:- This office letter No . 5070 / Acd.-I dated 31.07.19. and letter No. 6862(5) / Acd.-I dated 23.10.19.

Sir,

In inviting a reference to the subject and letters cited above I am directed to intimate you that the Vice- Chancellor has been pleased to approve "Modification in Course Structure of B.Sc. Nursing Course" and "Inclusion of Unit- VI-B in Community Health Nursing –II Course during 4<sup>th</sup> Year B.Sc. Nursing Course effective from 2019-20 academic session" under 6 (15) of O.U. Act- 1989.

The Modification in Course Structure of B.Sc. Nursing Course is in Enclosure -1 and Inclusion of Unit- VI-B in Community Health Nursing –II Course during 4<sup>th</sup> Year B.Sc. Nursing Course effective from 2019-20 academic session is in Enclosure -2.

***The revised / compiled syllabus with the inclusion is also attached with this mail.***

This may be notified and be made available to the teachers and students concerned of your college/ department/ institution and you are requested to ensure teaching of the courses accordingly. ***Any error and omission etc. may kindly be intimated to the under signed. Compiled B.Sc. Nursing***

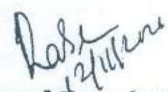
**P.T.O.**

**Syllabus** with inclusion of Unit- VI-B in Community Health Nursing –II Course during 4<sup>th</sup> Year B.Sc. Nursing Course effective from 2019-20 academic session will also be made available in the official web-site of the university in the link [www.suniv.ac.in](http://www.suniv.ac.in) >> **ACADEMIC >> Revised UG common Syllabi >> Rev. B.Sc. Nursing Syllabus .**

This is for your information and necessary actions.

Yours faithfully,

Encl:- As above .

  
Controller of Examinations

Memo No. 3755 /Acad.-I(BOS), dtd. 18/11/2020

Copy forwarded for information and necessary action to:

1. Smt. Singdha Minati Dani, (Chairperson, Board of Studies in Nursing 2019-20 session), Principal, SITE, A College of Nursing, Pallishree Vihar, Sadaipali, Dist. Bolangir – 767065 by **Speed Post** with a request to forward copies of revised Course Structures for examinations during 2020 and revised Course Structures for examinations during 2021 & onwards for further actions as per approval. This may be treated as urgent.
2. Asst. Registrar (Examinations) / Assistant Controller of Examinations (p), Sambalpur University.
3. The Programmer, University Computer Centre, Sambalpur University.
4. The System –in- Charge, *e – Governance Cell*, Sambalpur University for uploading it in the Notice -Board of the official web-site of the university and for uploading the **Enclosure -1, Enclosure -2 & the revised syllabus** in the link mentioned above. This may be treated as urgent.
5. P.A to the Vice- Chancellor / the Registrar / Deputy Registrar / the Controller of Examination, Sambalpur University.
6. Section Officer, All E.G / All E.C. Sections /Computer Unit/ A.S. W. Section.
7. Dealing Assistant, Regulation Seat, Academic -I Section
8. (5) Five spare Copies for Academic -I Sections.

  
Controller of Examinations



Enclosure -1

The Course Structure of B. Sc. Nursing effective from 2019-20 academic session will be as follows:

Theory Subjects to be examined in  
4<sup>th</sup> year Examination of Sept. 2020

Paper No. 16- Midwifery and  
Obstetrical Nursing  
Paper No. 17-Community Health  
Nursing-II(with MLHP)  
Paper No. 18-Nursing Research  
& Statistics  
Paper No. 19-Management of Nursing  
Services and Education

Theory Subjects to be examined in  
3<sup>rd</sup> year Examination of Sept. 2020

Paper No. 13-Medical Surgical Nursing-II  
Paper No. 14 -Child Health Nursing  
Paper No. 15-Mental Health Nursing  
Paper No. 16-Nursing Research & Statistics

Theory Subjects to be examined in  
4<sup>th</sup> year Examination of Sept. 2021 onward

Paper No. 17- Midwifery and  
Obstetrical Nursing  
Paper No. 18-Community Health  
Nursing-II(with MLHP)  
Paper No. 19- Management of Nursing  
Services and Education

Theory Subjects to be examined in  
3<sup>rd</sup> year Examination of Sept. 2021 onward

Same Subjects with same Paper Nos.  
will be examined from Sept. 2021  
Examination on wards.

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# **SYLLABUS**

FOR

(BASIC) B.SC NURSING

(4 YEARS DEGREE COURSE)

SAMBALPUR UNIVERSITY

JYOTI VIHAR, BURLA

DIST- SAMBALPUR-768019

**EFFECTIVE FROM 2019-20**



## Syllabus B.Sc. (N) Course

### Contents

#### B. Sc. (N) 1<sup>st</sup> year

Sl. No	Subjects	Pages
1.	Anatomy & Physiology	1-5
2.	Nutrition & Biochemistry	6-12
3.	Nursing Foundations (Theory) (Practical)	13-22 23-27
4.	Psychology	28-30
5.	Microbiology	31-33
6.	English	34
7.	Introduction to computer	35
	Regional Language Hindi	36
	Regional Language Odia	37

#### B. Sc. (N) 2<sup>nd</sup> year

8.	Sociology	38-42
9.	Medical Surgical Nursing- I (Theory) (Practical)	43-52 53-56
10.	Pharmacology, Pathology & Genetics	57-66
11.	Community Health Nursing- I (Theory) (Practical)	67-72 73
12.	Communication & Education Technology	74-76

B. Sc. (N) 3<sup>rd</sup> year

Sl. No	Subjects	Pages
13.	Medical Surgical Nursing- II (Theory)	77-84
	(Practical)	85-89
14.	Child Health Nursing (Theory)	90-92
	(Practical)	93-95
15.	Mental Health Nursing (Theory)	96-100
	(Practical)	101-102
16.	Nursing Research & Statistics	103-104

B. Sc. (N) 4<sup>th</sup> year

17.	Midwifery & Obst. Nursing (Theory)	105-108
	(3 <sup>rd</sup> year course)	
	Midwifery & Obst. Nursing (Theory)	109-111
	(4 <sup>th</sup> year course)	
	(Practical)	112-115
18.	Community Health Nursing- II(Theory)	116-120
	(Practical)	121
19.	Management of Nursing Services & Education	122-125
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INTERNSHIP	Integrated Practice	126-129

ANNEXURE-1

COURSE INSTRUCTION OF BSC NURSING (4YEARS)

FIRST YEAR B.SC NURSING

SUBJECT	THEORY (IN HOURS) CLASS & LAB	PRACTICAL (In Hrs) clinical	In hrs
1. (A) Anatomy	60	450	50
(B) Physiology	60		
2. (A) Nutrition	60		
(B) Biochemistry	30		
3. Nursing foundation	265+200		
4. Psychology	60		
5. Microbiology	60		
6. English	60		
7. Introduction to computer	45		
8. Regional language (Odia/ Hindi) optional	30		
9. Library work/ self study			50
10. Co-curricular activities			50
Total hours	930	450	100
Total hours – 1480 hrs			

SECOND YEAR B.SC NURSING

SUBJECT	THEORY (IN HOURS) CLASS & LAB	PRACTICAL (In Hrs) clinical	In hrs
1. Sociology	60	720	
2. Medical- Surgical Nursing-i (Adult including Geriatrics)	210		
3. (A) Pharmacology	45	135	50
(B) Pathology	30		
(C) Genetics	15		
4. Community Health Nursing-I	90		
5. Communication and Educational Technology	60 + 30		
6. Library work/ self study			50
7. Co-curricular activities			35
Total hours	540	855	85
Total hours - 1480 hrs			



### THIRD YEAR B.SC NURSING

SUBJECT	THEORY (IN HOURS) CLASS & LAB	PRACTICAL (In Hrs) clinical	In hrs
1. Medical- Surgical Nursing-ii (Adult including Geriatrics)	120	270	
2. Child Health Nursing	90	270	
3. Mental Health Nursing	90	270	
4. Nursing Research & Statistics	45		
5. Midwifery & Obstetrical Nursing	45	180	
6. Library work/ self study			50
7. Co-curricular activities			50
Total hours	390	990	100
Total hours – 1480 hrs			

### FOURTH YEAR B.SC NURSING

SUBJECT	THEORY (IN HOURS) CLASS & LAB	PRACTICAL (In Hrs) clinical	In hrs
1. Midwifery & Obstetrical Nursing	45	180	
2. Community Health Nursing – II	90	135	
3. Management of Nursing Services & Education	60+30		
Total hours	225	315	
Total hours - 540 hrs			

# **B.Sc. Nursing 1st year**

## ANATOMY AND PHYSIOLOGY

(1<sup>ST</sup> YEAR)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -120 Hrs

### SECTION-A

### ANATOMY

University Marks: 37

Classroom teaching -60 Hrs

Objective of the course :

The course is designed to enable the students to acquire knowledge of the normal structure of various human body systems and understand the alternations in anatomical structure in disease and practice of nursing .

#### Unit –I

Introduction to Anatomical terms organization of the human body

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

#### Unit –II

The skeleton System

- Bones – types , structure , Axial & Appendicular Skeleton
- Bone formation and growth
- Description of bones
- Joints-classification and structure
- Alternation in disease
- Applications and implication in nursing

#### Unit –III

The Muscular System

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

#### Unit –IV

The Nervous System

- Structure of neurologia & neurons
- Somatic Nervous system
  - Structure of brain , spinal chord, cranial nerves , spinal nerves , peripheral nerves
- Autonomic Nervous System Sympathetic Parasympathetic
- Alterations in disease
- Applications and implications in nursing



#### Unit –V

##### The Sensory Organs

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

#### Unit –VI

##### Circulatory and lymphatic System

- 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
- Alterations in disease
- Applications and implications in nursing

#### Unit –VII

##### The Respiratory System

- Structure of the organs of respiration
- Muscles of respiration : Intercostals and Diaphragm
- Alterations in disease
- Applications and implication in nursing

#### Unit-IX

##### The Excretory System ( Urinary)

- Structure of organs of Urinary
- System : Kidney, Ureters, Urinary bladder, urethra , structure of skin
- Alterations in disease
- Applications and implication in nursing

#### Unit-X

##### The Endocrine System

- Structure of pituitary , pancreas , thyroid , parathyroid , thymus and adrenal glands
- Alterations in disease
- Applications and implication in nursing

**Unit-XI**

**The Reproductive System including breast**

- Structure of female reproductive organs
- Structure of male reproductive organs
- Structure of breast

Alterations in disease

Applications and implication in nursing

**Assessment Methods:** Short answer questions and objective type for all the above Units

**Suggested Practical :** Study of microscopic structure of different body tissues study of human skeleton . Observation of dissected body , slides , specimen, models, charts , torsos etc.

**SECTION-B**  
**PHYSIOLOGY**

University Marks : 38

Class Room teaching -60 Hrs

**Objective of the course :** The course is designed to assist the students to acquire knowledge of the normal physiology of various human body systems and understand the alteration in physiology in disease and practice of Nursing .

**Unit-I**

**Cell Physiology**

- Tissue-Formation repair
- Membranes & glands – functions

Alterations in disease

Applications and implication in nursing

**Unit-II**

**Skeletal System**

- Bone formation and growth
- Bones- Function and movements of bones of axial and appendicle skeleton , bone, healing
- Joints and joint movement

Alterations in disease

Applications and implication in nursing

**Unit-IV**

**Nervous System**

- Functions of Neurologia and neurons
- Stimulus & nerve –impulse definitions and mechanism
- Function of brain , spinal cord , cranial and spinal nerves
- Cerebrospinal fluid –composition , circulation and function

- **Autonomic functions**
  - Pain: somatic, visceral and referred
  - Autonomic learning and biofeedback

Alterations in disease  
Applications and implication in nursing

#### Unit-V

##### Circulatory System

- Blood formation, composition, blood groups, blood coagulation
- Hemoglobin: structure, synthesis and breakdown, variation of molecules estimation
- Function of Heart, conduction, cardiac cycle, circulation – Principles Control, factors influencing BP and Pulse

Alterations in disease  
Applications and implication in nursing

#### Unit-VI

##### The Respiratory System

- Function of respiratory organs
- Physiology of respiration
- Pulmonary ventilation, volume
- Mechanics of respiration
- Gaseous exchange in lungs
- Carriage of oxygen & carbon-dioxide
- Exchange of gases in tissues
- Regulation of respiration

Alterations in disease  
Applications and implication in nursing

#### Unit-VII

##### The Digestive System

- Functions of organs of digestive tract Movements of alimentary tract, Digestion in mouth, stomach, small intestines, absorption of food, Function of Liver, gall bladder and pancreas
- Metabolism of carbohydrates, protein and fat

#### Unit-VIII

##### The Excretory System

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

Alterations in disease  
Applications and implication in nursing



#### Unit-IX

##### The Sensory Organs

- Functions of skin , eye , ear, nose , tongue
- Alterations in disease
- Applications and implication in nursing

#### Unit-X

##### The Endocrine System

- Functions of pituitary , pineal body , thymus , Thyroid , parathyroid, pancreas  
suprarenal , placenta and ovaries and Testes
- Alterations in disease
- Applications and implication in nursing

#### Unit-XI

##### The Reproductive System

- Reproductive of cells –DNA, Mitosis , meiosis , spermatogenesis, orgenesis
- Functions of female reproductive organ , function of breast , female sexual cycle
- Introduction to embryology
- Functions of male reproductive organs , male function in reproduction, male fertility system
- Alterations in disease
- Applications and implication in nursing

#### Unit-XII

##### Lymphatic and Immunological System

- Circulation of Lymph
- Immunity
  - Formation of T-Cells & B Cells
  - Types of immune response
  - Antigens
  - Cytokines
  - Antibodies

**Assessment Methods :** Short answer questions and objective type for all the above units

**Suggested Practical :** Preparing blood slides staining, study of blood cells under microscope , RBC & WBC Count , blood grouping , bleeding and clotting time , coagulation , ESR & Hb estimation and heart conduction system, measurement of BP & pulse , demonstration of spirometry , demonstration of joint movements , muscles movements , muscle tone and contraction nerve stimulus , reflection , reflexes and BMR .

## NUTRITION & BIOCHEMISTRY (1<sup>ST</sup> YEAR)

Full Marks:100  
University Exam :75  
Internal Exam : 25

Duration of Exam- 3 Hours  
Class room teaching -90 Hrs

### SECTION-A NUTRITION

University Marks: 45

Classroom teaching -60 Hrs

Objective of the course : 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 .

#### Unit-I

##### Introduction

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

#### Unit-II

##### Carbohydrates

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

#### Unit-III

##### Fats

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

#### **Unit-IV Proteins**

- Classification
- Caloric value
- Recommended daily allowances
- Dietary sources
- Function
- Digestion , absorption and storage , metabolism of carbohydrates
- Malnutrition , Deficiencies and over consumption
- Identification of savior acute malnutrition

#### **Unit-V Energy**

- Unit of energy –Kcal
- Energy requirements of different categories of people
- Measurements of energy
- Body mass index (BMI) and basic metabolism
- Basal metabolic Rate ( BMR)-determination and factors affecting

#### **Unit-VI Vitamins**

- Classification
- Recommended daily allowances
- Dietary sources
- Function
- Absorption , synthesis , metabolism storage and excretion
- Deficiencies
- Hyper vitaminosis

#### **Unit-VII Minerals**

- Classification
- Recommended daily allowances
- Dietary sources
- Function
- Absorption , synthesis , metabolism storage and excretion
- Deficiencies
- Over consumption toxicity



#### Unit-VIII

##### Water and electrolytes

- Water : daily requirements, 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

##### 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
- Preservation of food adulteration Acts PFA
- Foods standards
- Preparation of simple beverages and different types of food

**Assessment Methods :** Short answer questions and objective types and assessment of practice sessions .

#### Unit-X

##### Balance 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 diets : Naturopathy -Diet

**Assessment Methods :** Short answer questions and objective types. Exercise on menu planning for all the above units .

#### Unit-XI

##### Role of nurse in nutritional programmes

- National programmes related to nutrition
  - Vitamins A deficiency programme
  - National iodine deficiency disorders (IDD) programme
  - Mid day meal programme
  - Integrated child development scheme
  - National iron plus initiative
- Nation and International agency 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

#### Unit-XII

##### Food resources

- World food problems , changes, caused by agriculture and overgrazing , effects of modern agriculture , fertilizer-pesticide problems , water logging , salinity , case study .

**Assessment Methods :** Short answer questions and objective types questions .

**Suggested Practical :** methods of cooking , cooking rules , menu planning , calculation of food values in normal diets , preparation of various diets , demonstration of assessment of nutritional status .

## SECTION-B BIOCHEMISTRY

University Marks: 30

Classroom teaching -30 Hrs

**Objective of the course :** The course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alteration in biochemistry in disease for practice of nursing .

### **Unit-I**

#### **Introduction**

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

### **Unit-II**

#### **Structure and functions of cell membrane**

- 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**

- Type , structure, composition and uses
    - Monosaccharides    disaccharides    ,    polysaccharides    ,  
                                 oligosaccharides
  - Metabolism
    - Path ways of glucose
      - Glycolysis
      - Gluconeogenesis : Cori's cycle , tricarboxyli acid (TCA) cycle
      - Glycogenolysis
      - Pentose phosphate pathways ( Hexose monophosphate)
  - Regulations of blood glucose level
- Investigations and their interpretations

### **Unit-IV**

#### **Composition and metabolism of lipids**

- 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
  - Vitamins 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

- 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 enzyme
    - Classification
    - Properties
    - Kinetics and inhibition
    - Control
- Investigations and their interpretations

#### Unit-VI

##### Composition of Vitamins and minerals

- Vitamins and Minerals
  - Structure
  - Classification
  - Properties
  - Absorption
  - Storage & transportation
  - Normal concentration investigations and their interpretation

#### Unit-VII

##### Immunochemistry

- Immune response
- Structure and classification of immunoglobins
- Mechanism of antibody production

- Antigens: HLA typing
- Free radical and antioxidants
- Specialized protein : collagen , elastin , keratin , myosin , lens protein
- Electrophoretic and quantitative determination of immunoglobins
  - ELISA etc.

Investigations and their interpretations

**Assessment Methods :** Short answer questions and objective types questions for all the above units .

**Suggested Practical :** Demonstrate use of microscope, blood glucose monitoring lab test of lipid , protein, carbohydrate , vitamin , minerals etc.

## NURSING FOUNDATIONS

(1<sup>ST</sup> YEAR)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching - 265 Hrs

### Objective of the course

The course is designed to help the students to develop an understanding of the philosophy , objectives , theories and process of nursing in various Supervised Clinical settings . It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in Supervised Clinical settings.

### Unit-I

#### Introduction

- Concept of health : Health – illness continuum , Factors influencing health
- Causes and risk factors for developing illness
- Body definition : 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 function
- Health promotion and levels of disease prevention
- Primary health care and its delivery : role of nurses

Assessment Methods : Essay type , short answers and objective types.

### Unit-II

#### 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
  - Categories of nursing personnel
  - Nursing as a profession
  - History of nursing in India
- Value : definition , types , values clarification and values in professional Nursing caring and Advocacy
- Ethics
  - Definition and ethical principles
  - Code of ethics and profession conduct for nurses

Assessment Methods : Essay type , short answers and objective types.

### Unit-III

#### Hospital Admission and discharge

- Admission to the hospital , Unit and its preparation-admission bed
- Admission procedure , Special consideration, Medico-legal issues
- Roles and responsibilities of the nurse



- Discharge from the hospital
  - Types : planned discharge, 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

**Assessment Methods :** Essay type , short answers and objective type . Assesses skills with check list. Through Clinical practical examination .

#### **Unit-IV**

##### **Communication and Nurse patient relationship**

- 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 relations with special reference to communicating with vulnerable group ( children , women , physically and mentally challenged and elderly)
- Patient teaching : importance , purpose , process , role of nurse and integrating teaching in nursing process.

**Assessment Methods :** Essay type , short answers and objective type .

#### **Unit-V**

##### **The Nursing Process**

- Critical thinking and nursing judgement
  - Critical thinking : thinking and learning
  - Competencies , attitude 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 – formulating nursing judgement : data interpretation
  - Nursing diagnosis- identification of client problems –nursing diagnosis , statement and nursing diagnostics
  - Planning – establishing priorities –establishing goals and expected outcomes, selection of intervention : protocols and standing orders – writing the nursing care plan .

- Implementation – Implementing the plan of care
- Evaluation- outcome of care – review and modify
- Documentation and reporting

**Assessment Methods :** Essay type , short answers and objective type .

#### **Unit-VI**

##### **Documentation and reporting**

- Documentation : purposes of recording and reporting
- Communication within the health care team
- Types of records : ward records , medical/nursing records
- Common records : 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

**Assessment Methods :** Essay type , short answers and objective type .

#### **Unit-VII**

##### **Vital signs**

- 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, heat stroke , hypothermia
  - Hot and cold application
- Pulse :
  - Physiology and regulation , characteristics of the pulse, factor affecting pulse
  - Assessment of pulse : sites , locations, equipments and technique , special consideration
  - Alteration in pulse
- Respiration
  - Physiology and regulation , mechanics of breathing characteristics of the respiration , factors affecting respiration .
  - Assessment of respiration : technique , special consideration
  - Alteration in blood pressure
- Recording of vital signs

**Assessment Methods :** Essay type , short answers and objective type . Assess skills with check list through clinical practical examination .

#### Unit-VIII

##### Health Assessment

- Purpose
- Process of Health assessment
  - Health History
  - Physical examination – methods , inspection , palpation , percussion , auscultation , olfaction – preparation of examination patient and unit
    - General assessment
    - Assessment of each body system
    - Recording of health assessment

Assessment Methods : Essay type , short answers and objective type .

#### Unit-IX

##### Machinery , Equipment and Linen

- Types : Disposables and re-useable – linen , rubber goods , glass ware , metal , plastics , furniture , machinery
- Introduction
  - Indent
  - Maintenance
  - Inventory

Assessment Methods : Essay type , short answers and objective type .

#### Unit-X

##### Meeting Needs of Patient

- Basic needs ( activities of daily living)
- Providing safe and clean environment
  - Physical-environment : Temperature , humidity , Noise
  - Ventilation, light, odour, pests control
  - Safety devices, side rails, airways , trapeze etc
  - Role of nurse in providing safe and clean environment
- Hygiene –
  - Factors influencing hygienic practice
  - Hygienic care : care of the skin-Bath and pressure, feet and nail , oral cavity, hair care eyes , ears and nose .
- Assessment, principles , types , equipments , procedure , special consideration
- Patient environment : room equipment and linen , making patient beds
- 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
- **Urinary elimination**
  - Review of physiology of urine elimination, composition and characteristics of urine.
  - Factors influencing urination
  - Alteration in urinary elimination
  - Types and collection of urine specimen : observation , urine testing
  - Facilitating urine elimination : assessment , type , equipments , procedures and special considerations
  - Providing urinal / bed pan
  - Condom drainage
  - Perineal care
  - Catheterization
  - Care of urinary drainage
  - Bladder irrigation
- **Bowel elimination**
  - Review of physiology of bowel elimination, composition and characteristics of faeces.
  - Factors influencing bowel elimination
  - Types and collection of specimen faeces : observation
  - Facilitating bowel elimination : assessment , type , equipments , procedures and special considerations
  - Passing of flatus tube
  - Enemas
  - Suppository
  - Sitz bath
  - Bowel wash
  - Care of Ostomies
- **Mobility and immobility**
  - Principles of body mechanics
  - Maintenance of normal 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.

- Range of motion exercises .
- Maintaining body alignment : positions
- Moving
- Lifting
- Transferring
- Walking
- Restraints
- Oxygenation
  - Review of cardiovascular and respiratory physiology
  - Factors affecting Oxygenation
  - Alterations in oxygenation
  - Nursing interventions in oxygenation : assessment , types, equipment used , procedure and special considerations
  - Maintenance of patent airway
  - Oxygen administration
  - Suction
  - Inhalations : dry and moist
  - Chest physiotherapy and postural drainage
  - Care of chest drainage
  - Pulse oximetry
  - CPR –basic life support
  - Fluid , electrolyte , and Acid – Base Balances
  - Review of physiological regulation of fluid , electrolyte, and Acid – Base Balances
  - Factors affecting fluid , Electrolyte and Acid – Base Balances
  - Nursing interventions in Fluid , Electrolyte and Acid
  - Base imbalances : assessment , types, equipment , procedure and special considerations
  - Measuring fluid intake and output
  - 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
  - Concepts of cultural diversity , stress and adaption , 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

**Assessment Method:** Essay type , short answer and objectives type . Access with checklist and Clinical practical examination.

## Unit-XI

### Infection Control in Clinical Settings

- 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 management
  - Importance
  - Types of hospital waste
  - Hazards associated with hospital waste
  - Decontamination of hospital waste
  - Segregation and transportation and disposal

Assessment Method: Essay type , short answer and objectives type . Access with checklist and Clinical practical examination.

## Unit-XII

### Administration of Medications

- General
  - Principles/Considerations
  - Purposes of Medication
  - Principles : 5 rights , special considerations, prescriptions , safety in administering medications and medication errors
  - Drug forms
  - Routes of administration
  - Storage and maintenance of drugs and nurses
  - Broad classification of drugs
  - Therapeutic effect, 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 system, dosage calculation
- Terminologies and abbreviations used in prescriptions of medications
- Oral drugs administration oral , sublingual and buccal : equipment, procedure
- Parenteral
  - General principles : decontamination and disposal of syringes and needles
  - Types of syringes, needles , canula, and infusion sets
  - Protection from needlestick injuries, gives medications with a safety syringes
  - Routes of Parenteral therapies-intradermal: purpose,site,equipment,procedure,special considerations
  - Subcutaneous: purpose,site,equipment,procedure,special considerations
  - Intramuscular: purpose,site,equipment,procedure,special considerations
  - Intra Venous: purpose,site,equipment,procedure,special considerations
  - Advanced techniques: epidural,intrathecal,intraosseous,intraperitoneal,
  - Role of nurse
- Topical administration purpose, site equipment,procedure,special considerations for
  - Application to skin
  - Application to mucous membrane
    - Direct application of liquids
    - Gargle and swabbing the throat
    - Insertion of drug into body cavity: suppository/medicated packing in rectum/vagina
    - Installations: ear eye, nasal, bladder, and rectal
    - Spraying: nose and throat
- Inhalation: nasal, oral, endotracheal /tracheal [steam,oxygen and medications]- purpose, types, equipment, procedure , special considerations
  - Recording and reporting of medications administered

**Assessment Method:** Essay type , short answer and objectives type .  
Access with checklist and Clinical practical examination.



### Unit-XIII

#### Meeting need of preoperative patients

- Definition and concept of preoperative nursing
- Preoperative phase
  - Preparation of patient for surgery
- Intra-operative
  - Operative theatre set and environment
  - Role of nurse
- Postoperative Phase
  - Recovery unit
  - Post operative unit
  - Post operative care
- Wounds : types, classifications , wound healing process , factors affecting wound, complications of wound healing.
- Surgical asepsis
- Care of the wound : types , equipments , procedure and special considerations
  - Dressings , suture care
  - Care of drainage
  - Application of bandages, binders , splints and slings
  - Heat and cold therapy

**Assessment Method:** Essay type , short answer and objectives type .  
Access with checklist and Clinical practical examination.

### Unit-XIV

#### Meeting special needs of the patient

- Care of patients having alternation in
  - Temperature ( hyper and hypothermia) , Types , Assessment , Management
  - Sensorium ( Unconsciousness); Assessment, Management
  - Urinary elimination ( retention and incontinence ) , Assessment, Management
  - Functioning of sensory organs : ( visual and 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

**Assessment Method:** Essay type , short answer and objectives type .

#### **Unit-XV**

##### **Care of Terminally ill patient**

- Concepts 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

**Assessment Method:** Essay type , short answer and objectives type .

#### **Unit-XVI**

##### **Professional Nursing Concepts and Practices**

- 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

**Assessment Method:** Essay type , short answer

## **NURSING FOUNDATION**

### **( Practical )**

(1<sup>ST</sup> YEAR)

Full Marks:200

Internal marks :100

University marks : 100

Practical - 650 Hours

In the College's Lab. – 200 Hrs

In the Hospital ( Clinical) – 450 Hrs

#### **Objective of the course:**

The course is designed to help the students to develop an understanding of the philosophy , objectives , 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.

#### **Unit-I**

##### **Hospital Admission and Discharge (III)**

- 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 discharge , LAMA and abscond , referrals and transfers)
- Prepare records of discharge /transfer
- Dismantle and disinfect unit and equipment after discharge/transfer

#### **Assignments :**

- Practice in Hospital

**Assessment method :** Evaluate with checklist , assessment with clinical performance with rating scale and completion of Practical record .

#### **Unit-II**

##### **Perform assessment :**

- History taking , Nursing diagnosis , problem list , prioritization , goal & Expected outcomes , selection of interventions
- Write nursing care plan
- Give care as per the plan

#### **Assignments :**

- Write nursing process record of patient
- Simulated-I
- Actual-I

**Assessment method :** Assessment of nursing process records with check list ,  
Assessment of actual care given with rating scale

### **Unit-III**

#### **Communication :**

- **Use verbal and non verbal communication techniques**
  - Communicate effectively with patient , families and team members and maintain effective human relation
  - Develop plan for patient teaching
  - Prepare and present patient reports and monitor vital sign
  - Perform health assessment of each body system

#### **Prepare a plan for patient teaching session**

- **Write patient report**
  - Change of shift reports , transfer reports , incident reports etc.
  - Presents patient report
- **Vital signs**
  - Measure , records and interpret alteration 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 & Flowers bed
- Pain assessment and provision for comfort

#### **Use Comfort Devices Hygienic care :**

- Oral hygiene
- Baths and care of pressure points
- Hair wash , epiclesis 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 Exercises
  - Positioning : recumbent , lateral (rt/lt), Flowers , 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. Tests :

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

Hot and cold applications:

Local and general sitz bath

Communication in Spl.Case :

- 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

Assignments :

- Role play in simulated situation on communication technique-1
- Health talk-1
- Write nurse notes and present the patient report of 2-3 assigned patient
- La practice
- Measure vital signs of assigned patient

**Assessment Method :** Assess role plays with the check list on communication techniques .  
Assess health talk with the checklist . Assessment of communication techniques by rating scale . Assessment of performance with rating scale . Assessment of each skill with checklist . Completion of activity record checking

#### Unit-IV

##### 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 strengths of lotion,
  - Prepare lotions
- Care of articles

##### Pre and post operative care :

- Skin preparation for surgery : Local
- Preparation of post operative unit
- Pre & Post operative monitoring
- Care of the wound
- Dressings , 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 routs
- Oral sublingual and buccal
- Parenteral : Intradermal , subcutaneous , Intramuscular etc.
- Assist with Intra Venous Medications
- Drug measurements and dose calculations
- Preparation 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

**Caring of dying patient**

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

**Assignments :**

- Observation study-2
- Department of infection control & CSSD
- Visits CSSD write observation report-1
- Collection of samples for culture
- Do clinical posting in infection control department and write report
- Practice in La. And ward

**Assignment Methods :** Assessment of each skill with rating scale . Assess observation study with checklist . Evaluate all procedures with checklist . Completion of activity record checking .



## PSYCHOLOGY

(1<sup>ST</sup> YEAR)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching - 60 Hrs

### Objective of the course :

The course is designed to assist the students to acquire knowledge of 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 .

### Unit-I

#### Introduction

- History and origin of science of psychology
- Definitions & Scope of Psychology
- Relevance to nursing
- Method of Psychology

**Assignment Methods :** Essay type and Short answers.

### Unit-II

#### Biology of behavior

- 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, Rt and Li hemispheres
- Psychology of sensations
- Muscular and glandular controls of behavior
- Nature of behavior of an organism / integrated responses

**Assignment Methods :** Essay type and Short answers.

### Unit-III

#### Cognitive Processes

- Attention: Types, Determinants, duration & degree, alternations
- Perception: Meaning, Principles, factors affecting, Errors
- Learning: Nature, Types, learner and learning factors influencing, laws and theories, process, transfer, 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
- Applications

**Assignment Methods :** Essay type and Short answers.

#### **Unit-IV**

##### **Motivation and Emotional Processes**

- Motivation: Meaning , Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution
- Emotion & stress
  - Emotion: Definition, components, Changes in emotions, theories, Emotional adjustments, emotions in health and illness
  - Stress: stressors, cycle, effect, adaptation & coping
- Attitude: Meaning, nature, development, factors affection.
  - Behavior and attitudes
  - Attitudinal change
- Psychometric assessments of emotions
- Applications
- Case discussion and role play

**Assignment Methods :** Essay type and Short answers.

#### **Unit-V**

##### **Personality**

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

**Assignment Methods :** Essay type and Short answers.

#### **Unit-VI**

##### **Developmental Psychology**

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

**Assignment Methods :** Essay type and Short answers.

#### **Unit-VII**

##### **Mental hygiene and mental health**

- Concepts of mental hygienic and mental health
- Characteristics of mentally healthy person
- Warning signs of poor mental health
- Promotive and Preventive mental health-strategies and services
- Ego defence mechanisms and implications
- Personal and social and social adjustments
- Guidance and counseling
- Role of nurse

**Assignment Methods :** Essay type and Short answers.

#### **Unit-VIII**

##### **Psychological assessment & tests**

- Types, development, characteristics, Principles, Uses, Interpretations and Role of nurse in Psychological assessment

**Assignment Methods :** Assessment of Practice.

## **MICROBIOLOGY**

(1<sup>ST</sup> YEAR)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching - 60 Hrs

**Course Description :** This course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various microorganism . It also provides opportunities for practicing control measures in hospital and community settings .

### **Unit-I**

#### **Introduction**

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

**Assignment Methods :** Short answers and objective type .

### **Unit-II**

#### **General Characteristics of Microbes**

- Structure and classification of microbes
- Morphological types
- Size and form 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

**Assignment Methods :** Short answers and objective type .

### Unit-III

#### 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 programmed
  - Protocols , collection of samples , preparation of report and status of rate of infection in the unit/hospital , nurse's accountability , continuing education etc.

**Assignment Methods :** Short answers and objective type .

### Unit-IV

#### Pathogenic organisms

- **Micro-organisms**
  - Cocci-gram positive and gram positive and gram negative
  - Spirochaete
  - Mycoplasma
  - Rickettsiae
  - Chlamydiae
- Viruses
- Fungi – Superficial and Deep mycoses
- Parasites
- Rodents & vectors characteristics , source , portal of entry , transmission , infection, identification of disease producing micro-organisms collection handling and transportation of various specimens .

**Assignment Methods :** Short answers and objective type .

### Unit-V

#### 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 disease
- Immunization schedule

**Assignment Methods :** Short answers and objective type .

**Suggested Practical :** Examination of microbes under microscope , culture by hanging drops and cover slip preparation , simple , gram and acid fast staining , demonstration of collecting , handling and transporting various specimens . demonstration of methods of sterilization . Hyper sensitivity and serological test.

**SYLLABUS**  
**ENGLISH**  
**B.sc(N)1<sup>st</sup> year**

Full mark- 50  
College Exam-50

Duration of Exam- 2 Hours  
Class room teaching- 60 Hours

**Objective of the course**

The course is designed to enable the students to develop their communicative skill (both written and spoken). To write and speak effectively in both professional and social life is the basic objectives of the course. The students are to practice their skills in verbal and written English during classroom and clinical experiences.

**Unit –I**

Parts of speech, kinds of sentences(simple, compound And complex), tenses of verb, model armillary, reported speech, voice changes, correcting errors in day to day conversation.

**Unit-II**

Enriching word powers, especially professional terms on the basis of etymology and practice. Bettering over the words which are very often confused.

Assessment method- objectives types, selecting correct alternatives, single word substitution etc.

**Unit-III**

Letter writing (Formal & Informal), job application, resume/ CV, note taking, precise writing  
Assessment method- Essay types

**Unit –IV**

Oral report, discussion, debate, telephonic conversation.  
Assessment method- Assessment of the skill based on the checklist

**Unit –V**

Short biography of Florence Nightingale or Mother Teresa.  
Assessment method- Essay types, short answer

**Referred books**

1. High school grammar by Wren & Martun
2. Oxford English grammar
3. Hand book of letter writing/ notify/drafting/reporting by R.N. Panda
4. Some great lives (published by river books)
5. Ten great lives
6. Biography series " Mother Teresa ", Ganesh Publications
7. Biography series "Florence Nightingale ", Ganesh Publications

**Note: Minimum pass marks shall be 40% for English only and to be conducted as college exam and marks to be sent to the University for inclusion in the mark list.**



**INTRODUCTION TO COMPUTER**

**B.sc(N)1<sup>st</sup> year**

Full mark- 50  
College Exam-50

Duration of Exam- 2 Hours  
Class room teaching- ~~45~~ Hours

**Objective of the course:**

**This course is designed for the student to develop basic understanding of uses of computer and its applications in nursing.**

**Unit-I**

**Introduction**

- Concepts of computers
- Hardware and software; trends and technology
- Application of computer in Nursing

**Assessment method:** Short answers and objective type.

**Unit-II**

**Operating systems**

- Introduction to disk operating system(DOS)
- Windows( all version)
- Introduction to
  - MS- word
  - MS- Excel with pictorial presentation
  - MS-Access
  - MS – Power point

**Assessment method:** Short answers and objective type and practical exam.

**Unit-III**

**Multi media and computer added teaching**

- Multimedia ; types and uses
- Computer added training and teaching

**Assessment method:** Short answers and objective type and practical exam, viva voce.

**Unit-IV**

**Internet-using internet and E-mails**

**Assessment method:** Short answers and objective type and practical exam, viva voce.

**Unit-V**

**Packages**

- Statistical packages types and their features
- Hospital management systems: types and uses

**Assessment method:** Short answers and objective type and practical exam, viva voce.

**Note:** Theory and practical exams for Introduction to Computer to be conducted as college exam and marks to be sent to the University for Inclusion in the marks sheet.

## HINDI

Full Mark : 50

Total Teaching Hour : 30 Hrs.

Duration of Exam: 2 Hrs.

### Unit - I

व्याकरण

संज्ञा, सर्वनाम, विशेषण, क्रिया, वचन, काल, लिंग, क्रिया - विशेषण,  
सम्बन्धबोधक, समुच्चयबोधक, विस्मयबोधक, पर्यायसवाची, विलोम .

Assessment Method: Objective type and fill in the blanks (25 Marks)

### Unit - II

निबन्ध (Essay)

Assessment Method: Presentation and Content (07 Marks)

### Unit - III

Translation:

English to Hindi

Odia to Hindi

Assessment Method: One line answer (05 Marks)

### Unit - IV

Short Stories:

1. गौतम बुद्ध
2. जोन आफ आर्क
3. कबीर
4. स्वामी दयानन्द
5. भगतसिंह
6. महात्मागान्धी
7. जवाहरलाल नेहरू

Assessment Method: Essay Type (07 Marks)

### Unit - V

Reading & Dictation:

Reading from text book

Spellings marked from the chapters of the text book

Assessment Method: Internal Assessment (06 Marks)

Books Prescribed:

1. Mohan Rakesh: Samay Sarathi  
(Published by Radhakrishnan Prakashan Pvt. Ltd.)
2. Puja Sachitra Hindi Vyakaran & Rachana

## ORIYA

Full Mark : 50

Total Teaching Hour : 30 hrs.

Duration of exam : 2 hrs.

### Unit - I

- ଉପାଦେୟତା : ଛାତ୍ରଛାତ୍ରୀମାନଙ୍କୁ ଓଡ଼ିଆ ଭାଷାରେ ଶବ୍ଦକୋଷ ଏବଂ ବ୍ୟାକରଣର ସମ୍ବନ୍ଧରେ ଧାରଣା ଦେବା ।
- ଦିକ୍ଷୟବସ୍ତୁ : ୧. ପଦ ଓ ତାର ପ୍ରକାର ଭେଦ, ବିଶେଷଣ, କ୍ରିୟା, ଅବାଧ୍ୟ  
୨. ବାକ୍ୟ ଓ ତାର ପ୍ରକାରଭେଦ ସରଳ, ଯୌଗିକ ଓ ଜଟିଳ ବାକ୍ୟ  
୩. ପ୍ରତ୍ୟକ୍ଷୋକ୍ତି ଓ ପରୋକ୍ଷୋକ୍ତି
- ପରୀକ୍ଷା ପ୍ରଣାଳୀ : ଅତି ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନାବଳୀ

### Unit - II

- ଉପାଦେୟତା : କହି ଜାଣିଲେ କଥା ସୁନ୍ଦର - ଉକ୍ତ ଉକ୍ତିର ଯଥାର୍ଥତା ପ୍ରତିପାଦନ କରାଇବା ।
- ଦିକ୍ଷୟବସ୍ତୁ : ୧. ରୁଚିପ୍ରୟୋଗ ଓ ଏହାର ବ୍ୟବହାର, ବିଶେଷ୍ୟର ରୁଚି, କ୍ରିୟାର ରୁଚି, ବିଶେଷଣର ରୁଚି ।  
୨. ସମୋଚ୍ଚାରିତ ଭିନ୍ନାର୍ଥକ ଶବ୍ଦ, ଅନେକାର୍ଥକ ଶବ୍ଦ
- ପରୀକ୍ଷା ପ୍ରଣାଳୀ : ସଂକ୍ଷିପ୍ତ କିମ୍ବା ଅତି ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନାବଳୀ

### Unit - III

- ଉପାଦେୟତା : ଛାତ୍ରଛାତ୍ରୀମାନଙ୍କର ଭାବନାକୁ ଭାଷାରେ ପରିସ୍ପଷ୍ଟ କରାଇବା ।
- ଦିକ୍ଷୟବସ୍ତୁ : ପ୍ରବନ୍ଧ ଲିଖନ ଏବଂ ପତ୍ରଲିଖନ ।
- ପରୀକ୍ଷା ପ୍ରଣାଳୀ : ବର୍ଣ୍ଣନାତ୍ମକ ଦୀର୍ଘପ୍ରଶ୍ନ

### Unit - IV

- ଦିକ୍ଷୟବସ୍ତୁ : ଜଂଗଲାରୁ ଓଡ଼ିଆ ଅନୁବାଦ ।

### Unit - V

- ଉପାଦେୟତା : ପଠନ ମାଧ୍ୟମରେ ଛାତ୍ରଛାତ୍ରୀମାନଙ୍କର ସ୍ମରଣଶକ୍ତିକୁ ଦୃଢ଼ୀଭୂତ କରାଇବା ।
- ଦିକ୍ଷୟବସ୍ତୁ : ଅନୁମୋଦିତ ଶିକ୍ଷ ସମୂହ  
୧. ରେବତୀ  
୨. ବୁଢ଼ା ଶଂଖାରୀ  
୩. ମାରୁଣୀର ଶଗଡ଼  
୪. ଶିକାର  
୫. ଘାସ
- ପରୀକ୍ଷା ପ୍ରଣାଳୀ : ଦୀର୍ଘ କିମ୍ବା ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ

ବନ୍ଦ : ପ୍ରତ୍ୟେକ ବିଭାଗ ପାଇଁ ୧୦ ନମର ।

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# **B.Sc. Nursing 2nd year**

**SOCIOLOGY**  
**(2<sup>nd</sup> Year)**

Full Marks: 100

University Exam: 75

Internal Exam: 25

Duration of Exam-3 Hours

Class Room Teaching- 60 Hrs

**Objective of the Course:** 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-I**

**Introduction**

- Definition of sociology
- Nature and scope of the discipline
- Importance and application of sociology in Nursing

**Assessment method:** Short answers and essay type.

**Unit- II**

**Individual and society**

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

**Assessment method:** short answers and essay type.

**Unit-III**

**Culture**

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

**Assessment method:** Short answers and essay type.

**Unit-IV**

**Social groups and processes**

- The meaning and classification of groups
- Primary and secondary group
- In-group V/s Out-group, class, tribe, caste
- Economic, political, religious groups, mob, crowd, public and audience interaction and social processes
- Co-operation, competition, conflict
- Accommodation, assimilation and isolation

**Assessment method:** Short answers and essay type.

#### Unit-V

##### Population

##### Society and population

- Population and distribution in India- demographic characteristics
- Malthusian theory of populations
- Population explosion in India and its impact on health status
- Family welfare programmers

**Assessment method:** Short answers and essay type. Assessment of report on community identification.

#### Unit-VI

##### Family and marriage

- Family- functions
- Types-joint, nuclear, blended and extended family: characteristics
- The modern family- changes, problems- dowry etc, welfare services
- Changes and legislations 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

**Assessment method:** Short answers and essay type. Assessment of family case study.

#### Unit-VII

##### Social Satisfaction

- Meaning and types of social stratification
- The Indian caste system- origin and futures
- Features of caste in India today
- Social class system and status
- Social mobility- meaning and 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

**Assessment method:** Short answers and essay type. Assessment of report on community survey.

#### Unit-VIII

##### Types of Communities in India (rural, urban and regional)

- Features of village community and characteristics of Indian villages- pantheist system, social dynamics
- Community development project and planning
- Changes in Indian rural life
- Availability of health 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

**Assessment method:** Short answers and essay type. Assessment of report on community survey.

#### **Unit-IX**

##### **Social Change**

- Nature and process of social change
- Factors influencing social change cultural change, cultural lag
- Introductions to theories of social change linear cyclical, Marxian, functional role of nurse- change agents

**Assessment method:** Short answers and essay type.

#### **Unit-X**

##### **Social Organization and Social System**

- Social organization: element, 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

**Assessment method:** Essay types , short answers, assessment of visit reports.

#### **Unit-XI**

##### **Social Control**

- Nature and process of social control
- Political, legal, religious, educational, economic, industrial and technological systems, norms and values- folk ways and mores customs, laws and fashion role of nurse

**Assessment method:** Short answers and essay type. Assessment of report on community survey.

#### **Unit-XII**

##### **Social Problems**

- Social disorganization
- Control and planning poverty, housing, illiteracy, food supplies, prostitution, right of women and children, vulnerable groups elderly, handicapped, minority groups and other marginalized groups, child labor, child abuse, delinquency and crime, substance abuse, HIV/AIDS

- Social welfare programmers in India
- Role nurse

**Assessment method:** Essay types , short answers, assessment of visit reports.

#### **Unit-XIII**

##### **Natural resources**

##### **Renewable and-renewable**

- Forest resources- use and over exploitation, deforestation, case study, timber extraction, mining, dance and their effects on forest and tribal people
- Water resources- use and over utilization of surface and ground water, floods, drought, conflict over water, dams benefits and problems
- Mineral resources- use and exploitation, environmental effect of extraction and using mineral resources case study

#### **Unit-XIV**

##### **Ecosystem**

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producer, consumer and decomposer
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem- grassland ecosystem- desert ecosystem- aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)

#### **Unit-XV**

##### **Social issues and the environment**

- From unsustainable to sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Re-settle and rehabilitation of people, its problems and concerned, case studies
- Environmental ethics- issue and possible solutions
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accident and holocaust, case studies
- Waste land reclamation
- Consumerism and waste product
- Environment protection Act
- Air( prevention and control of pollution) Act



- Wild life protection Act
- Forest conservation Act
- Issue involved in enforcement of environmental legislation
- Public awareness

## MEDICAL SURGICAL NURSING-I

(2<sup>nd</sup> year )

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -210 Hrs

**Objective of the course :** 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-I

#### Introduction

- Introduction to medical surgical nursing-Evaluation and trends of medical and surgical nursing
- Review of concepts of Health and illness Diseases- Concepts, Causations, Classification-International Classification Disease ( ICD-10 or later Version), Acute 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 patient
  - Pre-operative
  - Intra operative
  - Post operative

**Assessment Method :** Short answers, objective type and assessment of skills with check list.

## Unit-II

### Common signs and symptoms and management

- Fluid and electrolyte imbalance
- Vomiting
- Dyspnea and cough, respiratory obstruction
- Fever
- Shock
- Unconsciousness, Syncope
- Pain
- Incontinence
- Edema
- Age related problems- geriatric

**Assessment Method :** Short answers, objective type.

## Unit-III

### Nursing management of patients ( adults including elderly ) with respiratory problems

- 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
    - Atelectasis
    - Chronic Obstructive Pulmonary Disease (COPD)
    - Pneumonia
    - Pulmonary tuberculosis
    - Lung abscess
    - Cysts and Tumours
    - Chest injuries
    - Respiratory arrest and insufficiency
    - Pulmonary embolism
- Special therapies, alternative therapies  
Nursing procedures  
Drugs used in treatment of respiratory disorders

**Assessment Methods :** Short answers, objective type and assessment of skills with check list. Assessment of patient management problem

## Heart

- Coronary artery diseases
  - Ischemic Heart Disease
  - Coronary atherosclerosis
  - Angina pectoris
  - Myocardial infarction
- Alveolar disorders of the heart
  - Congenital and acquired
  - Rheumatic Heart diseases
- Endocarditis, Pericarditis Myocarditis
- Cardio Sympathies
- Cardiac dysrhythmias, Heart block
- Congestive cardiac failure
  - Cor-pulmonale, pulmonary, edema, cardiogenic shock, cardiac tamponade
- Cardiac emergencies and arrest
- Cardio pulmonary Resuscitation ( CPR )
- Blood
  - Anemia's
  - Polycythemia
  - Bleeding disorders ; clotting factor defects
  - Thalassemia
  - Leukemia's and agranulocytosis
  - Lymphomas
  - Myeloma's
- 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 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

**Assessment Methods :** Essay type, Short answer, objective type, assessment of skills with check list, assessment of patient management problem.

## Unit-VI

### Nursing management of patient ( adults including elderly ) with genitor-urinary

- Review of anatomy and physiology of genitor-urinary system
- Nursing Assessment –History and Physical assessment\etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical dietetics & nursing management of

- Nephritis
- Nephritis
- Nephritis
- Renal calculus
- Tambours
- Acute renal failure
- End stage renal disease
- Dialysis, renal transplant
- Congenital disorders, urinary infections
- Benign prostate hypertrophy
- Disorders of urethra, bladder & urethra-inflammation, infection, stricture, Obstruction , tambour, prostrate
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of genitor-urinary disorders

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem .

#### **Unit-VII**

##### **Nursing management of disorder male ( adults including elderly ) reproductive system**

- Review of anatomy and physiology male reproductive system
- Nursing Assessment –History and Physical assessment
- etiology, Pathophysiology, clinical manifestation , diagnosis , treatment modalities and medical , surgical dietetics & nursing management of disorders of male reproductive system
- Congenital malformations: cryptorchidism
- Hypospadiasis, Epispadiasis
- Infections
- Testies and adjacent structures
- Penis
- Prostate: inflammation infection, hypertrophy, tumor
- Sexual Dysfunction
- Infertility
- Contraception
- Breast: gynecomastia, tumor
- Climacteric changes
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of male reproductive system

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

- Nephritis
- Nephritis
- Nephritis
- Renal calculus
- Tambours
- Acute renal failure
- End stage renal disease
- Dialysis, renal transplant
- Congenital disorders, urinary infections
- Benign prostate hypertrophy
- Disorders of urethra, bladder & urethra-inflammation, infection, stricture, Obstruction , tambour, prostrate
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of genitor-urinary disorders

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem .

#### Unit-VII

##### **Nursing management of disorder male ( adults including elderly ) reproductive system**

- Review of anatomy and physiology male reproductive system
- Nursing Assessment –History and Physical assessment
- etiology, Pathophysiology, clinical manifestation , diagnosis , treatment modalities and medical , surgical dietetics & nursing management of disorders of male reproductive system
- Congenital malformations: cryptorchidism
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- Infections
- Testies and adjacent structures
- Penis
- Prostate: inflammation infection, hypertrophy, tumor
- Sexual Dysfunction
- Infertility
- Contraception
- Breast: gynecomastia, tumor
- Climacteric changes
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of male reproductive system

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

#### Unit-VIII

##### Nursing management of patient ( adults including elderly) with disorders of endocrine system

- 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-
  - Disorders of Thyroid and parathyroid
  - Diabetes mellitus
  - Adrenal tumor
  - Pituitary disorders

Special ; therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of endocrine system

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

#### Unit-IX

##### Nursing management of patients ( adults including elderly) with disorder of integument system

- Review of anatomy & physiology of skin & its appendages
- Nursing assessment –history & physical assessment
- Etiology, path physiology , clinical manifestoes , diagnosis, treatment modalities & medical , surgical , dietetics & nursing management of disorders of skin & its appendages –
  - Lesions & abrasions
  - Infection & infestations : dermatitis
  - Dermatomes ; infectious & non infectious inflammatory dermatomes
  - Acne vulgar is
  - Allergies & eczema
  - Psoriasis
  - Malignant melanoma
  - Alopecia

Special therapies, alternative theories nursing procedures  
Drugs used in treatment of disorders of integument system

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

#### Unit-X

##### Nursing management of patient ( adults including elderly ) with musculoskeletal problems

- Review of anatomy & physiology of musculoskeletal system
- Nursing Assessment-History and physical assessment
- Etiology , pathophysiology, clinical manifestations , treatment modalities and medical surgical, dietetics & nursing management of-
- Disorders of :
  - Muscles, ligaments & joints – inflammation , infection ,, trauma
  - Bones-inflammation , infection , dislocation , fracture , tumor & trauma
  - Osteomalacia & osteoporosis
  - Arthritis
  - Congenital deformities
  - Spinal column-defects & deformities , tumor , prolapsed inter vertebral disc, putt's spine
  - Paget's disease
- Amputation
- Prosthesis
- Transplant & replacement surgeries
- Rehabilitation
- Special therapies, alternative therapies
- Nursing procedures
- Drugs in treatment of disorders of musculoskeletal system

Assessment Methods : Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

#### Unit-XI

##### Nursing management of patient ( adults including elderly ) with immunological problems

- Review of immune system
- Nursing assessment- history & physical assessment
- Etiology, path physiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of-
- Immunodeficiency disorder
- Primary immune's deficiency
- Phagocyte dysfunction
- B-cell & t-cell deficiencies
- Secondary immune deficiencies
- Acquired immunodeficiency syndrome (ales)
- Incidence of HIV & AIDS



- Epidemiology
- Transmission: prevention of transmission
- Standard safety precautions
- Role of nurse: counseling
- Health education & home care consideration
- National AIDS control program: nacho, various national & international agencies
- Infection control program
- Rehabilitation

Special therapies, alternative therapies

Nursing procedures

Drugs in treatment of disorders of immunological system

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

#### Unit-XII

**Nursing management of patient ( adults including elderly ) with Communicable diseases**

- Overview of infectious disease, the infectious process
- Nursing assessment- history & physical assessment
- Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention & dietetics . Control & eradication of common communicable diseases-
  - Tuberculosis
  - Diarrheas diseases
  - Hepatitis A-C
  - Herpes
  - Chickenpox
  - Smallpox typhoid
  - Meningitis
  - Gas gangrene
  - Leprosy
  - Dengue
  - Plague
  - Malaria
  - Diphtheria
  - Peruses
  - Poliomyelitis
  - Measles
  - Mumps

- Influenza
- Tetanus
- Yellow fever
- Florists
- HIV, AIDS
- Reproductive tract infections
- Special therapies, alternative therapies
- Nursing procedures
- Drugs in treatment of disorders of communicable diseases .

**Assessment Methods :** Essay types Short answers, objective type , assessment of skills with check list. Assessment of patient management problem.

### Unit-XIII

#### Peril operative nursing:

- Organization and physical set up of the operation theatre (OT)
  - Classifications
  - O. T. DESIGN
  - Staffing Members of the O.T. team
  - Duties and responsibilities of nurse in O.T.
  - Principles of health and operating 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
  - Maintenance the patient during surgical procedures
- Maintenance of therapeutic environment in O.T.
- Standard safety measures
  - Infection control: fumigation, disinfection and stylization
  - Biomedical waste management
  - Prevention of accidents and hazards in O.T.
- An aesthesia
  - Types
  - Methods of administration
  - Effects and stages
  - Equipments
  - Drugs

- Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques
- Legal aspects

**Assessment methods:** Essay type, short answers, objective type, assessment of skill with check list.

**MEDICAL SURGICAL NURSING-I**  
**(ADULT INCLUDING GERIATRICS)-I (PRACTICAL)**  
(2<sup>nd</sup> year )

Full Marks:100

Time -720 Hours

University Exam :100

Internal Exam : 100

**Unit-I (6 weeks)**

**General medicine ward (Respiratory, GI, Endocrine, Renal Hematology) :**

- Assessment of the patient
  - Taking history
  - Perform general & specific physical examination
  - Identify alterations & deviations
- Practice medical & asepsis- standard safety measures
- Administer medications
  - Oral, IV, IM Subcutaneous
- IV therapy
  - IV conflation
  - Maintenance & Monitoring
- Oxygen therapy by different methods
- Nebulization
- Chest physiotherapy
- Naso gastric feeding
- Assist in common diagnostic
- Perform/assist in the – paretic procedures
- Blood & component therapy
- Throat suctioning
- Collect specimens for common investigations
- Maintain elimination
  - Catheterization
  - Bowel wash
  - Enema
  - Urinary intake, drainage
- Maintain intake, output & documentation
- Counsel & teach related to specific disease conditions

**Assignments:**

- ✓ 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

**Assessment methods:** Assessment performance with rating scale, Access each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**Unit-II (6 weeks)**

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

- Practice medical surgical asepsis- standard safety measures
- Pre operative predation of patients
- Post operative care- receiving pt, assessment, monitoring, care
- Care of wounds & drainage
- Suture removal
- Ambulation & exercise
- Naso gastric aspiration
- Care of chest drainage
- Ostomy care
  - Gastrostomy
  - Colostomy
  - Enterostomy
- Blood & component therapy
- Practice universal precautions

**Assessment:**

- ✓ Plan and give care to 3-4 assigned patient
- ✓ Nursing care plan-2
- ✓ Nursing case study/presentation-2
- ✓ Maintain drug book

**Assessment methods:** Assessment performance with rating scale, Access each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**Unit-III (2 weeks)**

**Cardiology Ward :**

- Physical examination of the cardio vascular system recording & interpreting ECG
- Monitoring of patients
- Preparation & assisting in non- invasive & invasive diagnostic procedures
- Administer cardiac drugs
- Cardio pulmonary resuscitation
- Teach patients & families
- Practice medical & surgical asepsis- standard safety measures

**Assignments:**

- Plan and give care to 2-3 assigned patients
- Nursing care plan-1
- Nursing case study/presentation/health talk
- Maintain drug book
- Teach patient and families
- Practice medical and s
- urgical asepsis- standard safety measure

**Assessment methods:** Assessment performance with rating scale, Access each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**Unit-IV (1 weeks)**

**Skin Communicable diseases Ward :**

- Assessment of patients with skin diseases
- Assist in diagnostic & therapeutic procedures
- Administer topical medical
- Practice topical surgical asepsis- standard safety measures
- Use of personal protective equipment (PPE)
- Give medicated baths
- Counseling HIV positions
- Teach prevention of infectious diseases

**Assessment:**

- Plan and give care to 2-3 assigned patient
- Health talk/counseling HIV positive patients and families-
- Maintain drug book

**Assessment methods:** Assessment performance with rating scale, Access each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**Unit-V (2 weeks)**

**Orthopedic Ward :**

- Assessment of orthopedics patients
- Assist in application of plaster cast & removal of cast
- Apply skin traction-buck's extension traction
- Assist in application & removal of prosthesis
- Physiotherapy- range of motion exercises (ROM), muscle strengthening exercises
- Crutch maneuvering technique
- Activities of daily living
- Ambulation
- Teach & counsel patients & families

**Assessment:**

- Plan and give care to 2-3 assigned patient
- Nursing care plan-1
- Nursing case study/presentation-1
- Maintain drug book

**Assessment methods:** Assessment performance with rating scale, Access each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**Unit-VI (6 weeks)**

**Operations Theatre :**

- Scrubbing, gowning, gloving
- Identify instruments, suturing materials for common operations
- Disinfection , carbonization , fumigation

- Preparation of instrument sets for common operations
- Sterilization of sharps & others instruments
- Prepare the table depending upon the operations
- Disposal of waste as per the guidelines

**Assignments :**

- Assist as a circulatory nurse in- 10 major cases, 5 minor cases
- Assist as a scrub nurse- 10 major cases, 5 minor cases
- Maintain drug book
- 

**Assessment methods:** Assessment performance with rating scale, Assess each skill with checklist. Evaluation of case study/presentation. Completion of practical/activity record.

**PHARMACOLOGY, PATHOLOGY, GENETICS**  
**(2<sup>nd</sup> Year)**

Full Marks: 100

University Exam: 75

Internal Exam: 25

Duration of Exam-3 Hours

Class Room Teaching- 90 Hrs

**SECTION - A**  
**PHARMACOLOGY**

University Marks: 100

Class room teaching – 45 Hrs

**Objective of the Course:** This course is designed to enable students to acquire understanding of pharmaco-dynamics, pharmacokinetics, principles of therapeutics and nursing implications.

**Unit-I**

**Introduction to Pharmacology**

- Definition
- 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

**Assessment method:** Short answers and objective type.

**Unit-II**

**Chemotherapy**

- Pharmacology of commonly used:
  - Penicillin
  - Cephalosporins
  - Aminoglycosides
  - Macrolide and broad spectrum antibiotics
  - Sulfonamides
  - Quinolones
  - Antiparasitics
  - Antimalarials
  - Anthelmintics
  - Anticardiac agents
  - Antiviral and anti-fungal agents
  - Anti tubercular drugs



- Anti leprosy drugs
- Anticancer drugs
- Immune- suppressants

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

**Assessment method:** Short answers and objective type.

### Unit-III

#### Pharmacology of commonly used antiseptics, disinfectants and insecticides

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

**Assessment method:** Short answers and objective type.

### Unit-IV

#### Drugs Acting on G.I. System

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

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

**Assessment method:** Short answers and objective type.

### Unit-V

#### Drugs Used on Respiratory System

- Pharmacology of commonly used:
  - Antasthmatics
  - Mucolytics
  - Decongestants
  - Expectorants
  - Antitussives
  - Bronchodilators
  - Broncho constrictors
  - Antihistamines

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

**Assessment method:** Short answers and objective type.

#### **Unit-VI**

##### **Drugs Used on Urinary System**

- Pharmacology of commonly used:
  - Diuretics and anti diuretics
  - Urinary antiseptics
  - Cholinergic and anticholinergics
  - Acidifiers and alkalinizers

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

**Assessment method:** Short answers and objective type.

#### **Unit-VII**

##### **Miscellaneous**

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

**Assessment method:** Short answers and objective type.

#### **Unit-VIII**

##### **Drugs used on skin and mucous membranes**

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

**Assessment method:** Short answers and objective type.

#### **Unit-IX**

##### **Drugs acting on nervous system**

- Basic and applied pharmacology of commonly used :
- Analgesics and anesthetics

- Analgesics – non steroidal anti-inflammatory ( NSAID) drugs
- Antipyretics
- Hypnotics and sedatives-opioids-tranquilizers-general and local anesthetics gases : oxygen , nitrous oxide , carbon-dioxide
- Cholinergic and anti-cholinergic :
  - Muscle relaxants
  - Major tranquilizers
  - Anti-psychotics
  - Antidepressants
  - Anticonvulsants
  - Adrenergic
  - Noradrenics
  - Mood stabilizers
  - Acetylcholine
  - Stimulants

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

Assessment method: Short answers and objective type .

#### Unit-X

##### Cardiovascular drugs

- Haematinics
- Cardiotonics
- Anti anginals
- Anti-arrhythmic
- Plasma expanders
- Coagulants & thrombolytic
- Hypolipidemics

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

Assessment method: Short answers and objective type .

#### Unit-XI

Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy

- Insulin's & oral hypoglycemic

- Thyroid supplements and suppressants
- Steroids, Anabolism
- Uterine stimulants and relaxants
- Oral contraceptives
- Other estrogen-progesterone preparations
- Corticotrophin & Gonadotropins
- Adrenaline
- Prostaglandins
- Chalcidones
- Calcium salts
- Calcium regulators

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

#### **Unit-XII**

##### **Introduction to Drugs used in alternative systems of medicines :**

- Ayurveda , Homeopathy , Unani and Siddha etc.

**Assessment method:** Short answers and objective type .

**SECTION - B ( PATHOLOGY )**

University Marks: 25

Class room teaching – 30 Hrs

**Objective of the Course:** 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-I**

- **Introduction**
  - Importance of the study of pathology
  - Definition of terms
  - Methods and tissue changes
  - Cellular and tissue changes
  - 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 –II**

**Special pathology**

- **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 & tamboours
- **Cardio-vascular system**
  - Pericardial effusion
  - Rheumatic heart disease
  - Infective endocarditic, atherosclerosis
  - Ischemia , infarction & aneurysm
- **Gastro intestinal tract**
  - Peptic ulcer ,typhoid
  - Carcinoma of GI tract – buckle, esophageal
  - Gastric & intestinal

- **Liver, gall bladder & pancreas**
  - Hapatitis, cronic liver abscess, cirrhosis
  - Tambours of liver , gall bladder & pancreas,
  - Cholecystitis
- **Kidneys & urinary tract**
  - Glomerulonephritis , pyelonephritis
  - Calculi, renal failure , renal carcinoma & prostate
- **Female genital system**
  - Fibroids
  - Carcinoma cervix & endometrial
  - Vesicular mole , choriocacinoma
  - Entopic gestation
  - Ovarian cyst & tambours
- **Cancer breast**
- **Central nervous system**
  - Hydrocephalus
  - Vascular disorders-thrombosis , embolism
  - Stroke , paraplegia , quadriplegia
  - Tambour , meningiomas-glooms
- **Metastasis tumor**
- **Skeletal system**
  - Bone healing , octopuses , osteomyelitis
- **Arthritis & tambours**

### Unit-III

#### Clinical Pathology

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

#### **Unit-IV**

##### **Examination of Body cavity Fluids, transudates & Exudates**

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

#### **Unit-V**

##### **Urine & Faeces**

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

• **Assessment Method :** Short answers, objective type for all the above units .

**SECTION - C ( GENETICS )**  
**( 2<sup>nd</sup> Year )**

University Marks: 12

Class room teaching – 15 Hrs

**Objective of the Course:** This course is designed to enable students to acquire knowledge and understanding of Genetics , its role in causation and management of defects and disease .

**Unit-I**

**Introduction :**

- 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
- Chromosomes aberrations patterns on inheritance
  - Medallion theory on inheritance
  - Multiple allots and blood groups
  - Sex linked inheritance
  - Mechanism of inheritance
  - Errors in transmission ( mutation )

**Natural Resources :**

- Energy resources : growing energy needs , renewable and non renewable energy sources , use of alternate energy sources , case studies .

**Assessment Method :** Short answers, objective type .

**Unit-II**

**Maternal , Prenatal & genetics influences on development of defects & Diseases**

- Condition affecting the mother : genetic and infections
- Consanguinity atrophy
- Prenatal nutrition & food allergies
- Maternal age
- Maternal drug therapy
- Prenatal testing & diagnosis
- Effects of radiation, drugs and chemicals
- Infertility



- Spontaneous
- Neural tube defects & the role of folic acid in lowering the risks
- Down syndrome ( trisome 21)

**Assessment Method :** Short answers, objective type .

### **Unit-III**

#### **Genetics Testing in the Neonates & Children**

- Screening for
  - Congenital abnormalities
  - Developmental delay
  - Dimorphism

**Assessment Method :** Short answers, objective type .

### **Unit-IV**

#### **Genetic conditions of Adolescents & Adults**

- Cancer genetics-familial cancer
- Inborn errors of metabolism
- Blood group alleles & hematological disorder
- Genetic Huntington's disease
- Mental illness

**Assessment Method :** Short answers, objective type .

### **Unit-V**

#### **Services Related to Genetics**

- Genetic testing
- Human genome project
- Gene therapy
- The eugenic movement
- Genetic counseling
- Legal and ethical issues
- Role of nurse

**Assessment Method :** Short answers, objective type .

## COMMUNITY HEALTH NURSING-I

(2<sup>nd</sup> year )

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -90 Hrs

Practical-135 Hrs

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

### Unit-I

#### Introduction

- Community Health Nursing
- Definition , concept & dimension of health
- Promotion of health
- Maintenance of health

#### Multidisciplinary nature of environmental studies

- Definition, scope and importance
- Need for public awareness
- 

**Assessment method :** short answer

### Unit-II

#### Determinants of Health

- Eugenics
- Environment :
  - Physical : air, light, ventilation , water , housing , sanitation , disposal of waste , disposal of dead bodies , forestation , noise , climate , communication : linkages
  - Acts regulating the environment : national pollution control board
- Bacterial & Vital : agents , host carriers & immunities
- Arthropods & rodents
- Food hygiene : production , preservation , purchase , preparation , consumption
- Acts regulating food adulteration act, drugs & cosmetic act
- Socio-cultural
  - Customs , taboos
  - Marriage system
  - Family structure
- Status of special groups , Females , children , elderly , challenged groups and sick persons
- 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

**Natural resources :**

- Land resources : land as a resources , land degradation , man induced landslides , soil erosion and desertification
- Role of an individual in conservation of natural resources
- Equitable use of resources for sustainable lifestyles

**Assessment method :** Objective type / short answer / essay type

**Unit-III**

**Epidemiology**

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

**Assessment method :** Objective type / short answer / essay type

**Unit-IV**

**Epidemiology and nursing management of common communicable disease**

- Respiratory infections
- Small pox
- Chicken pox
- Measles
- Influenza
- Rubella
- ARI's & pneumonia
- Mumps
- Diphtheria

- Whooping cough
- Meningococcal cough
- Tuberculosis
- SARS
- Intestinal infections
- Poliomyelitis
- Viral Hepatitis
- Cholera
- Diarrhoeal disease
- Typhoid fever
- Food poisoning
- Amoebiasis
- Hook worm infection
- Ascariasis
- Darcunculiasis
- Arthropod infections
- Dengue
- Malaria
- Filariasis
- Zoonoses
- VIRAL**
- Rabies
- Yellow fever
- Japanese encephalitis
- Kyasur forest disease
- Bacterial
- Brucellosis
- Plague
- Human salmonellas
- Anthrax
- Leptospirosis
- Rickettsial disease
- Rickettsial zoonoses
- Scrub typhus
- Murin typhus
- Tick typhus
- Q fever
- Parasitic zoonoses
- Teaniasis
- Hydatid
- Leishmaniasis

- Surface infection
- Trachoma
- Tetanus
- Leprosy
- STD & RTI
- Yaws
- HIV & AIDS

**Assessment method :** Short answer / essay type

#### **Unit-V**

**Epidemiology and nursing management of non-communicable disease**

- Malnutrition
- Anaemia
- Hypertension
- Stroke
- Rheumatic Heart disease
- Cancer
- Diabetes mellitus
- Blindness
- Accidents
- Mental illness
- Obesity
- Iodine deficiency
- Fluorosis
- Epilepsy

**Assessment method :** Objective type / Short answer / essay type

#### **Unit-VI**

**Demography**

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

**Assessment method :** Essay type / Objective type / Short answer / assessment of survey report .

#### **Unit-VII**

**Population and its control**

- 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
- Method spacing ( natural, biological , chemical , mechanical methods etc)
- Terminal : surgical methods
- Emergency contraception

**Assessment method :** Essay type / Objective type / Short answer / assessment of survey report .

#### **Unit-VIII**

##### **Multidisciplinary nature of environmental studies**

- Definition, scope and importance
- Need for public awareness

#### **Unit-IX**

##### **Natural resources:**

Land resources: land as a resource, land degradation, man induced landslides, soil erosion and desertification.

- Role of an individual in conservation of natural resources
- Equitable use of resources for sustainable lifestyles

#### **Unit-X**

##### **Biodiversity and its conservation:**

- Introduction-definition: genetic, species and eco system diversity
- Bio-geographical classification of India
- Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
- Biodiversity at global, national and local levels
- India as a mega diversity nation
- Hot-spots of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered and endemic species of India
- Conservation of biodiversity: in-situ Ex-situ conservation of biodiversity

#### Unit-XI

#### Environmental Pollutions

##### Definition

- Cause , affects and control measures of
- Air Pollution
- Water pollution
- Soil pollution
- Marine pollution
- Noise pollution
- Thermal pollution
- Nuclear pollution
- Solid waste management : causes affects and control measures of urban Industrial wastes
- Role of an industrial in prevention of pollution
- Pollution case studies
- Disaster management : floods , earthquake, cyclone and landslides

#### Unit-XII

##### Field Work

- Visit to a local area to document environmental assests- river / forest/ grassland / hill / mountain
- Of common plants , insects , birds

## COMMUNITY HEALTH NURSING-I (Practical) (2<sup>nd</sup> year )

Practical-135 Hours

**Objective:** Build and maintain rapport with community. Identify demographic characteristics, health determinants and community health resources. Diagnose health needs of individual and families. Provide family care in health centre. Counsel and educate individual family and community.

**Skills:**

- Use techniques of interpersonal relationship
- Identification of health determinants of community
- History taking
- Physical examination
- Collect specimens: sputum, malaria smear
- Perform simple lab test 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 services
  - Health life style
  - Family welfare methods
  - Health promotion

**Assignments:**

- ✓ 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 1 in rural)

**Assessment methods:**

Assess clinical performance with rating scale. Assess each skill with check list. Evaluation of family study, observation report and health talk. Completion of activity record.



## **Communication & Educational Technology**

(2<sup>nd</sup> year )

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -90 Hrs

**Objective of the Course :** 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 setting.

### **Unit-I**

#### **Review of communication process**

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

**Assessment method:** Respond to critical incidents, short answers, objective type

### **Unit-II**

#### **Interpersonal relations**

- Purpose & types
- Phases
- Barriers & methods of overcoming
- Johari window

**Assessment method:** Short answers, objective type

### **Unit-III**

#### **Human relations**

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

**Assessment method:** Respond to critical incidents, short answers, objective type .

#### Unit-IV

##### Guidance & counseling

- Definition
- Purpose, scope & need
- Basic principles
- Organization of counseling services
- Types of counseling of counselor
- Role & preparation of counselor
- Issues for counseling in nursing student & practitioners
- Counseling process-step & techniques , tools of counselor
- Managing disciplinary problems
- Management of crisis & referral
- 

**Assessment method:** Short answers, objective type and assess performance in role play situation.

#### Unit-V

##### Principles of education & teaching learning process

- Education : meaning , philosophy , aims , functions & principles
- Nature and characteristics of learning
- Principles and maxims of teaching
- Formulating objectives ; general and specific
- Lesson planning
- Class room management

**Assessment method:** Short answers, objective type and assess performance in role play situation.

#### Unit-VI

##### Methods of teaching

- Lecture , demonstration , group discussion, seminar symposium , panel discussion , role-play, project , field trip workshop , exhibition , programmed instruction , computer assisted learning , micro teaching problem based learning, self instructional module & simulation etc.
- Clinical teaching methods : case method , nursing round & reports , bedside clinic, conference ( individual & group) process recording .

**Assessment method:** Short answers, objective type and assess teaching sessions .

#### Unit-VII

##### Educational media

- Purposes & types of AV aids , principles & sources etc.
- Graphic aids : chalk board , chart , graph posted flash cards , flannel graph, bulletin , cartoon

- Three dimensional aids : objects , specimens , models, puppets
- Printed aids : pamphlets & leaflets
- Projected aids: slides , overhead projector , films , TV , VCR /VCD , camera , microscope , LCD
- Audio aids: tape recorder , public address system
- Computer

**Assessment method:** Short answers, objective type and assess teaching aid prepared .

#### Unit-VIII

##### Assessment

- Purpose & scope of evaluation & assessment
- Criteria for selection of assessment technique & methods
- Assessment of knowledge : essay type question , short answer questions ( SAQ) , multiple choice questions ( MCQ)
- Assessment of skills : observation checklist , practical exam , viva , objective structured clinical examination ( OSCE)
- Assessment of attitude : attitude scales

**Assessment method:** Short answers, objective type and assess strategies used in practice teaching sessions and exercise sessions

#### Unit-IX

##### Information , education & communication for health ( IEC)

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

**Assessment method:** Short answers, objective type and assess planning & conduct of the educational sessions

# **B.Sc. Nursing 3rd year**

## MEDICAL SURGICAL NURSING

(ADULT INCLUDING GERIATICS)-ii  
( 3<sup>rd</sup> Year)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -120 Hrs

### Objective of the course

The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in various of health care setting and at home .

### Unit-I

#### Nursing management of patient with disorders of Ear Nose and Throat

- 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-Menere's Disease, labyrinthitis , ostotoxicity , tumours
  - Upper airway infections- common cold , sinusitis , ethinitis , rhinitis, pharyngitis , tonsillitis and adenoiditis , peritonsillar abscess , laryngitis
- Upper respiratory airway-epitasis
- Nasal construction , laryngeal obstruction , cancer of he 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

**Assessment method:** Essay type , short answers, objective type assessment of skills with check list and assessment of patient management problem.

## Unit-II

### Nursing management of patient with disorders of eye

- 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 disorder:
  - Refractive errors
  - Eyelids-infection, tumours and deformities
  - Conjunctiva-inflammations and infection , bleeding
  - Cornes-inflammation and infection
  - Lens-cataracts
  - Glaucoma
  - Disorder of the uveal 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

Drugs used in treatment of disorders of eye

**Assessment methods:** Essay type , short answers, objective type assessment of skills with check list and assessment of patient management problem.

## Unit-III

### Nursing management of patient with neurological disorders

- 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 eye disorders:
- Congenital malformations
- Headache
- Head injuries
- Spinal injuries
  - Paraplegia
  - Hemiplegia
  - Quadraplegia

- Spinal cord compression-hemitation of intervertbal disc
  - Tumours of the brain & spinal cord
  - Intra cranial and cerebral uneurysms
  - Infections:
    - Meningitis, Encephalitis, Brain abscess, neurocysticercosis
  - Movement disorders
    - Chorea
    - Seizures
    - Epilepsies
  - Cerebrum Vascular accidents (CVA)
  - Cranial, Spinal Neuropathies-bell's platy, trigeminal neuralgia
  - Peripheral neuropathies: guillotine- barren syndrome
  - Myasthenia gravis
  - Multiple sclerosis
  - Degenerative diseases
    - Delirium
    - Dementia
    - Alzheimer's disease
    - Parkinson's disease
  - Management of unconscious patients & with stroke
  - Role of the nurse in communicating with patient having neurological deficit
  - Rehabilitation of patients with neurological deficit
- Role of nurse in long stay facili8ty (institutions) and at home
- Special therapies
- Nursing procedures
- Drugs used in treatment of neurological disorders
- Assessment methods:** Essay type , short answers, objective type assessment of skills with check list and assessment of patient management problem.

#### **Unit-IV**

##### **Nursing management of patient with disorders of female reproductive system**

- 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 disorder of female reproductive system
- Congenital abnormalities of female reproductive system
- Sexuality and Reproductive health
- Sexual health assessmentMenstrual Disorders: Dysmenorrheal, Amenorrhea, Premenstrual, Syndrome
- Abnormal Uterine Bleeding: He

- morrhagic, 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, Cytokine/Retrocede/Reconcile
- Vagina disorders: Infections and discharge , Fistulous
- Disease of Breast : Deformities , Infections , Cyst and Tumours
- Menopause and Hormonal Replacement therapy
- Infertility
- Contraception : Types Methods , Risk and effectiveness
  - Spacing methods
    - Barrier methods , Intrauterine devices , Hormonal , Post Connectional Methods, etc.
  - Terminal Methods
    - Sterilization
- Emergency contraception methods
- Abortion-Natural, Medical and surgical abortion –MTP Act
- Toxic Shock Syndromes
- Injuries and Trauma : Sexual violence
- Special therapies
- Nursing procedures
- National family welfare programme

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

#### Unit-V

##### Nursing management of patients with Burns, reconstructive and cosmetic surgery

- Review of anatomy & physiology of the skin & connective tissues & various deformities
- Nursing assessment-history & electrolyte loss
- Etiology, classification , path physiology , diagnosis , treatment modalities & medical & surgical nursing management of burns & re-constructive & cosmetic surgery.
- Types of re-constructive cosmetic surgery for burns , congenital deformities , injuries & cosmetic purposes
- Role of nurse
- Legal aspects
- Rehabilitation
- Special therapies
  - Psycho social aspects



Nursing procedures

Drugs used in treatment of burns, reconstructive & cosmetic surgery

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

#### **Unit-VI**

**Nursing management of patients with oncological conditions**

- 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, lung , stomach and lymphomas , breast , cervix, ovary , uterus , sarcoma , brain , renal , bladder , prostate
- Oncological emergencies
- 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
- Stoma therapy
- Special therapies
  - Psycho social aspects
- Nursing procedure

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

#### **Unit-VII**

**Nursing management of patient in EMERGENCY & DISASTER Situations 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 : biochemical cyclones
- Fire , explosion, accidents
- Violence , terrorism, biochemical war
- Policies related to emergency/disaster
- Management : international , national, state , institutional

- Disaster preparedness
- Team, guidelines, protocols , equipment, resources
- Co-ordination and involvement of community , various govt.department, non-Govt. organization and international agencies
- Role of nurse : working
- Legal aspects of disaster nursing
- Impact on health and after effects : post traumatic stress disaster
- Rehabilitation : physical , psychosocial , 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 of triage nurse
- Co-ordination and involvement of different departments and facilities
- Nursing assessment-history 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 haemorrhage
- Pain
- Poly-trauma, road , gas drugs & chemical poisoning
- Seizures
- Thermal emergencies, heat 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

**Assessment Method**

- Essay type
- Short answers
- Objective type
- Assessment of skills with check list
- Assessment of patient management problem

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

**VIII**

**Nursing care of elderly**

- 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 & elderly
- Stress & coping in older adults
- Common health problems & nursing management
- Cardiovascular, respiratory, musculoskeletal
- Endocrine, genitor-urinary gastrointestinal
- Neurological, skin & other sensory organs
  - Psychosocial & sexual
  - Abuse of elderly
- Role of nurse for care of elderly : ambulation, nutritional , communicational , psychosocial & spiritual
- Role of nurse for caregivers of elderly
- Role of family & prosthesis ( hearing aids , dentures)
- Legal & ethical issues
- Provisions & programmers for elderly : privileges , community programs & health services.
- Home & institutional care

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

#### Unit-IX

##### Nursing management of patient in critical care units

- Nursing assessment-history & physical assessment
- Classification
- Principles of critical care nursing
- Organization : physical setup , policies , staffing norms
- Protocols , equipment & 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
- Treatment & procedures
- Transitional
- Ethical & legal aspects
- Communication with patient & family
- Intensive care records
- Crisis intervention
- Death & dying –coping with
- Drugs used in critical care unit

**Assessment methods:** Essay type , short answers, objective type, assessment of skills with check list and assessment of patient management problem.

#### Unit-X

##### Nursing management of patients adults including elderly with occupational & industrial disorders

- Nursing assessment – history & physical assessment
- Etiology, path physiology, clinical manifestation , diagnosis , treatment modalities & industrial health disorders
- Role of nurse, special therapies , alternative therapies nursing procedures drugs used in treatment of occupational & industrial disorders.

## MEDICAL SURGICAL NURSING-II

(PRACTICAL)

( 3<sup>rd</sup> Year)

Full Marks:100

University Exam :50

Internal Exam : 50

Clinical Practice- 270 Hours

Class room teaching -120 Hrs

### Unit-I ( 1 week )

#### ENT

- Perform examination of ear, nose & throat
- Assist with diagnostic procedures
- Assist with therapeutic procedures
- Instillation of drops
- Perform / assist with irrigations
- Apply ear bandage
- Perform tracheotomy care
- Teach patients & families

#### Assignments :

- Provide care to 2-3 assigned patients
- Nursing care plan-1
- Observation reports of OPD & Eye bank
- Maintain drug book

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of observation report of OPD. Completion of activity record .

### Unit-II ( 1 week )

#### Ophthalmology

- Perform examination of eye
- Assist with diagnostic procedures
- Perform / assist with irrigations
- Apply eye drops/ointments
- Assist with foreign body removal
- Teach patients & families

**Assignments :**

- Provide care to 2-3 assigned patients
- Nursing care plan-1
- Observation reports of OPD & Eye bank
- Maintain drug book

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of observation report of OPD/Eye Bank .  
Completion of activity record .

**Unit-III ( 2 week )**

**Neurology**

- Perform neurological
- Examination
- Use Glasgrow coma scale
- Assist with diagnostic procedures
- Assist with therapeutic procedure
- Teach patients & families
- Participate in rehabilitation program

**Assignments :**

- Provide care to 2-3 assigned patients with neurological disorders
- Case study / Presentation -1
- Observation reports of OPD & Eye bank
- Maintain drug book
- Health teaching-1

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of case study and health teaching .  
Completion of activity record .

**Unit-IV ( 1 week )**

**Gynecology ward**

- Assist with gynecological
- Examination
- Assist with diagnostic procedures
- Teach patients families
- Teaching self breast examination
- Assist with Pap smear collection

**Assignments:**

- Provide care to 2-3 assigned patients
- Case study / Presentation-1
- Observation reports of OPD & Eye Bank
- Maintain drug book
- Health teaching-1

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of care plan . Completion of activity record .

**Unit-V ( 1 week )**

**Burns Unit**

- Assessment of the burns patient
  - Percentage of burns
  - Degree of burns
- Fluid & electrolyte replacement therapy
  - Assess
  - Calculate
  - Replace
  - Record-Intake/output
- Care of burn wounds
  - Bathing
  - Dressing
- Perform active & passive exercise
- Practice medical & surgical asepsis
- Counsel & teach patients & families
- Participate in rehabilitation program

**Assignments:**

- Provide care to 2-3 assigned patients
- Case study / Presentation-1
- Observation reports of OPD & Eye Bank
- Maintain drug book
- Health teaching-1

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of care plan an observation report  
Completion of activity record .

#### Unit-VI

##### Oncology Unit

- Screen for common cancers-TNM classification
- Assist with diagnostic
  - Biopsies
  - Pap smear
  - Bone-marrow aspiration
- Breast examination
- Assist with therapeutic procedures
- Participates in various modalities of treatment
  - Chemotherapy
  - Radiotherapy
  - Pain management
  - Stoma therapy
  - Hormonal therapy
  - Immune therapy
  - Gene therapy
  - Alternative therapy
- Participate in palliative care
- Counsel & teach patients families
  - Self breast examination
  - Warning signs
- Participate in rehabilitation program

##### Assignments:

- Provide care to 2-3 assigned patients
- Case study / Presentation-1
- Observation reports of cancer unit

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of plan an observation report . Completion of activity record .

#### Unit-VII ( 2 weeks)

##### Critical care Unit

- Monitoring of patients in ICU
- Maintain flow sheet
- Care of patient on ventilators
- Perform and tracheal suction
- Demonstrates use of ventilators , cardiac monitors etc
- Collect specimen & interprets ABG analysis
- Assist with arterial puncture



- Maintain CVP line
- Pulse oximetry
- CPR –ALS
- Defibrillators
- Pace makers
- Bag-mask ventilation
- Emergency tray / trolley-crash cart
- Administration of drugs
  - Infusion pump
  - Epidural
  - Intra the cal
  - Intracranial
- Total parenteral therapy
- Chest physiotherapy
- Perform active & passive exercises
- Counsel the patient & family in dealing with grieving & bereavement

**Assignments:**

- Provide care to 1 assigned patients
- Drug book
- Observation reports of critical care

**Assessment methods:** Assess each skill with checklist , assess performance with rating scale and evaluation of plan an observation report . Completion of activity record .

**Unit-VIII ( 1 week )**

**Casualty / Emergency**

- Practice 'triage'
- Assist with assessment , examination , investigations and their interpretations , in emergencies and disaster situations
- Assist in documentations
- Assist in legal procedure in emergency unit
- Participate in managing crowd
- Counsel patient and families in grief and bereavement

**Assignments:**

- Observation report of emergency unit

**Assessment methods:** Assess performance with rating scale and evaluation of observation report . Completion of activity record .

## **CHILD HEALTH NURSING**

**(3<sup>rd</sup> Year)**

Full Mark: 100

University Exam; 75

Internal Exam: 25

Duration of Exam-3 Hours

Class room teaching – 120 Hrs

**Objective of the Course:** 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-I**

#### **Introduction to modern concepts of childcare**

- Internationally accepted rights of the child
- National policy and legislations in relation to child health and welfare
- National programmers related to child health and welfare
- Agencies related to welfare services to the children
- Changing trends in hospital care, preventive, primitives, and curative aspects of child health.
- Child morbidity and mortality rates.
- Difference between an adult and child
- Impacts of hospitalization on the child and family
- Grief and bereavement
- The role of a hospitalized child
- Principles of pre & post operative care of infants & children
- Child health nursing procedures

**Assessment methods :** short answer, objective type questions, assessment of skill with checklist,

### **Unit-II**

#### **The healthy child**

- Principles of growth & development
- Factors affecting growth & development
- growth & development from birth to adolescence
- the needs of normal children through the stages of developmental and parental guidance
- nutritional needs of children and infant: breastfeeding, exclusive breast feeding, supplementary/ artificial feeding and weaning.
- Baby friendly hospital concepts
- Accidents: causes and prevention
- Value of play and selection of play material

- Preventive immunization programmed and cold chain
- Preventive pediatrics
- Care of under five and under five clinics/ well baby clinics

**Assessment methods :** Short answer, objective type questions, assessment of field visit and developmental study reports.

### Unit –III

#### **Nursing care of a neonate**

- Nursing care of a normal new born care
- Neonatal resuscitation
- Nursing management of low birth weight baby
- Kangaroo mother care
- Nursing management of a common neonatal disorder
- Organization of neonatal unit
- Identification & Nursing management of common congenital malformation

**Assessment methods:** Short answer, objective type questions, assessment of skill with checklist,

### Unit-IV

#### **Integrated management of neonatal & childhood illness (IMNCI)**

### Unit-V

#### **Nursing management in common childhood disease**

- Nutritional deficiency disorders
- Respiratory disorder & infection
- Gastrointestinal infections, infestations & rheumatic fever, rheumatic heart disease
- Genitor vascular problem: congenital defects & rheumatic fever, rheumatic heart disease
- Genitor- urinary disorders: acute glomerulus's nephritis, nephritic syndrome, wilms' tumor, infection & congenital disorders.
- Neurological infections & disorders: convulsions, hydrocephalus, spinal-bifida
- Hematological disorders: anemia's, thalassemia, ITP, leukemia, hemophilia
- Endocrine disorders: juvenile diabetes mellitus
- Orthopedic disorders: club feet, hip dislocation & fracture
- Disorders of skin, eye & ear
- Common communicable diseases in children, their identification, nursing management in hospital & home & prevention

- Child health emergencies: poisoning, foreign bodies, hemorrhage, burns & drowning.
- Nursing care of infant & children with HIV/ AIDS.

**Assessment methods:** Short answer, objective type questions, assessment of skill with checklist,

Unit- VI

**Management of behavioral & social problems in children**

- Management of common behavioral disorders
- Management of common psychiatric problems
- Management of challenged children: mentally, physically, & socially challenged children in India
- Child guidance clinics

**Assessment methods :** Short answer, objective type questions, assessment of field visit and developmental study reports.

**CHILD HEALTH NURSING (PRACTICAL)**  
**(3<sup>RD</sup> YEAR)**

clinical practical- 270 Hrs

Full marks: 100  
University mark- 50  
Internal mark- 50

**Unit-I (3 weeks)**

**Pediatric medicine ward**

- Taking pediatric history
- Physical examination & assessment of children
- Administer of oral, I/M & IV medicine /fluids
- Calculation of fluid requirements
- Prepare different strengths of I.V fluid
- Apply restraints
- Administer O<sub>2</sub> inhalation by different methods
- Give baby birth
- Feed children by katori spoon, etc.
- Collect specimens for common investigations
- Assist with common diagnostic procedures
- Teach mothers/ parents
  - Malnutrition
  - Oral dehydration therapy
  - Feeding & weaning
  - Immunization schedule
  - Play therapy
  - Specific disease conditions

**Assignments :**

- Give care to three assigned pediatric patients
- Nursing care plan-1
- Case study/ presentation- 1
- Health talk- 1

**Assessment method :** Assess clinical performance with rating scale. Assess each skill with check list OSCE/OSPE. Evaluation of case study/presentation and health education session. Completion of activity record.

**Unit-II (3 weeks)**

**Pediatric surgery ward**

- Calculate, prepare & administer I/V fluids
- Do bowl wash

- Care of costomies:
  - Colostomy irrigation
  - Ureterostomy
  - Gastrectomy
  - Enterostomy
- Urinary catheterization & drainage
- Feeding
  - Naso-gastric
  - Gastrectomy
  - Jejunostomy
- Care of surgical wounds
  - Dressing
  - Suture removal

#### **Assignments**

- Give care to three assign pediatric surgical patients
- Nursing care plan-1
- Case study/ presentation- 1

**Assessment method :** Assess clinical performance with rating scale. Assess each skill with check list OSCE/OSPE. Evaluation of case study/presentation and health education session. Completion of activity record.

#### **Unit- III (1 week)**

##### **Pediatric/ OPD/ immunization room**

- Assessment of children
  - Health assessment
  - Developmental assessment
  - Anthropometric assessment
- Immunization
- Health/ nutritional education

#### **Assignments**

- Developmental study- 1

**Assessment method :** assess clinical performance with rating scale. Assess each skill with check list OSCE/OSPE.. Completion of activity record.

#### **Unit- IV(1 + 1week)**

##### **Pediatric medicine and surgery ICU**

- Care of a baby in incubator / warmer
- Care of a child on ventilator
- Endotrachial suction

- Chest physiotherapy
- Administer fluids with infusion pump
- Total parental nutrition
- Photo therapy
- Monitoring of babies
- Cardio pulmonary resuscitation

**Assignments:**

- Nursing care plan- 1
- Observation report- 1

Assessment method : Assess clinical performance with rating scale. Assess each skill with check list OSCE/OSPE. Evaluation of case study/presentation and health education session. Completion of activity record.

**MENTAL HEALTH NURSING**  
( 3<sup>RD</sup> Year )

Full Marks:100  
University Exam :75  
Internal Exam : 25

Duration of Exam- 3 Hours  
Class room teaching -90 Hrs

**Unit-I**  
**Introduction**

- Perspectives of Mental Health and Mental Health nursing : evolution of mental health services , treatment 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 setting and factors affecting the level of nursing practice
- Concepts of normal and abnormal behaviour

**Assessment:** Objective type , short answer questions and assessment of the field visit reports.

**Unit-II**  
**Principles and concepts of Mental Health Nursing**

- Definition : mental health nursing and terminology used
- Classification of mental disorders : ICD
- Review of personality development , defense mechanisms
- Maladaptive behavior 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 abnormal neuro transmission
- Principles of Mental Health Nursing
- Standards of Mental Health Nursing practice
- Conceptual models and the role of nurse:
  - Existential Model
  - Psycho-analysis models
  - Behavioural model
  - Interpersonal model

**Assessment:** Objective type , short answer and essay type questions



### **Unit-III**

#### **Assessment of mental health status**

- History taking
- Mental status examination
- Mini mental status examination
- Neurological examination : review
- Investigations : related blood chemistry , EEG , CT & MRI
- Psychological tests role & responsibilities of nurse

**Assessment:** Objective type , short answer questions and assessment of skills with checklist .

### **Unit-IV**

#### **Therapeutic communication & nurse –patient relationship**

- Therapeutic communication: types , techniques , characteristics
- Types of relationship
- Ethics & responsibilities
- Elements of nurse patient contract
- Review of technique of IPR –Johari window
- Goals, phases , tasks , therapeutic techniques
- Therapeution impasse & its intervention

**Assessment:** Objective type , short answer questions .

### **Unit-V**

#### **Treatment modalities & therapies used in mental disorders**

- Psycho Pharmacology
- Psychological therapies : Therapeutic community , psycho , therapy-analytical, cognitive and supportive , Family , Group , Behavioural, Play , Pasycho-drama, Music , Dance , recreational and Light therapy , Relaxation therapies : Yoga , Meditation , bio feedback
- Alternative system of medicine
- Occupational therapy
- Physical Therapy : electro conclusive therapy
- Geriatric considerations

Role of nurse in above therapies

**Assessment:** Objective type , short answer and essay type questions.

### **Unit VI**

#### **Nursing management of patient with Schizophrenia and other psychotic disorders**

- Classifications : 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

**Assessment:** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-VII**

##### **Nursing management of patient with neurotic , stress related and somatization disorders**

- Anxiety disorder, phobias , dissociation & conversion disorder, obsessive , compulsive disorder , 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
- Geriatrics considerations
- Follow-up and home care and rehabilitation

**Assessment:** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-IX**

##### **Nursing management of patient with substance use disorders**

- Commonly used psychotropic substance : Classification , forms , routes , action , intoxication and withdrawal
- Etiology of dependence : tolerance , psychological and physical dependence with drawl 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 substance use disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

**Assessment:** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-X**

##### **Nursing management of patient with Personality, Sexual and Eating disorders**

- Classifications 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

**Assessment :** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-XI**

##### **Nursing management of childhood and adolescent disorders including mental deficiency**

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

**Assessment :** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-XII**

##### **Nursing management of organic brain disorders**

- Classification : ICD ?
- Etiology , psycho-pathology , clinical features , diagnosis ( Parkinson's & alzheimers )
- Nursing assessment –History , physical and mental and neurological assessment
- Treatment modalities and nursing management of organic brain disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

**Assessment :** Short answer and essay type questions. Assessment of patient management problems.

#### **Unit-XIII**

##### **Psychiatric emergencies and crisis intervention**

- Types of psychiatric emergencies and their management
- Stress adaption Model : stress and stressor , coping , resources and mechanism
- Grief: Theories of Grieving process , principles , techniques of counselling
- Types of crisis
- Crisis intervention : principles , techniques and process
- Geriatric consideration role and responsibilities of nurse

**Assessment :** Short answer and objective type questions

#### **Unit-XIV**

##### **Legal Issues in Mental Health Nursing**

- The Mental Health Act 1987 : Act , Section , Articles and their implications etc
- Indian lunacy Act etc. 1912
- Rights of mentally ill clients
- Forensic psychiatric
- Acts related to narcotic and psychotropic substances and illegal drug trafficking
- Admission and discharge procedures

**Assessment :** Short answer and objective type questions

#### **Unit-XV**

##### **Community Mental Health Nursing**

- Development of Community Mental Health services :
- National mental Health programme
- Institutionalization versus De-institutionalization
- Model of preventive psychiatry : level 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.

**Assessment :** Short answers and objective type questions. Assessment of field visit report .

**MENTALHEALTH NURSING(PRACTICAL)**

**(3<sup>RD</sup> YEAR)**

Full marks: 100

University mark- 50

Internal mark- 50

clinical practical- 270 Hrs

**UNIT-I (1 week)**

**Psychiatric OPD**

- History taking
- Perform mental status examination
- Assist in psychometric assessment
- Perform neurological examination
- Observe and assist in therapies
- Teach patients and family members

**Assignments:**

- History taking and mental health examination-2
- Health education-1
- Observation report of OPD

**Assessment method :** Assess clinical performance with rating scale. Assess each skill with check list . Evaluation of health education. Assessment of observation report. Completion of activity record.

**Unit-II (1week)**

**Child guidance clinic**

- History taking
- Assist in psychometric assessment
- Observe and assist in various therapies
- Teach family and significant others

**Assignments:**

- Case work- 1
- Observation report of different therapies-1

**Assessment method :** Assess clinical performance with rating scale. Assess each skill with check list . Evaluation of the observation report.

**Unit III (6week)**

**Inpatient ward**

- History taking
- Perform mental status examination
- Perform neurological examination
- Assist in psychometric assessment
- Record of therapeutic communication
- Administer medications
- Assist in electro-convulsive therapy(ECT)
- Perpetrate in all therapies
- Prepare patients for activities of daily living
- Conduct admission and discharge counseling
- Counsel and teach patients and families

**Assignments:**

- Give care to 2-3 patients with various mental disorder
- Case study-1
- Care plan-2
- Clinical presentation- 1
- Process recording- 2
- Maintain drug book

**Assessment method :** Assess clinical performance with rating scale. Assess each skill with check list . Evaluation of the case study, care plan clinical presentation process recording. Completion of activity record.

**Unit-IV (1 week)**

**Community psychiatry**

- Conduct case work
- Identify individual with mental health problem
- Assist in mental health camps and clinics
- Counsel and teach family member patient and community

**Assignments:**

- Case work—1
- Observation report on field visit

**Assessment method :** Assess performance with rating scale. Evaluation of the case work and observation report . Completion of activity record. .

## **NURSING RESEARCH AND STATISTICS**

(4<sup>th</sup> Year )

**Full Marks:100**

**University Exam :75**

**Internal Exam : 25**

**Duration of Exam- 3 Hours**

**Class room teaching -45 Hrs**

### **Objective of the course :**

The course is designed to enable students to develop an understanding of basic concepts of research , research process and statistic . it is further structures 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-I**

#### **Research and research process**

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

**Assessment Method:** Short answer , Objective type

### **Unit-II**

#### **Research Problem / Question**

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

**Assessment Method:** Short answer , Objective type

### **Unit-III**

#### **Review of Literature**

- Location
- Sources
- Online search : CINHAL , COCHRANE etc.
- Purpose
- Method of review

**Assessment Method:** Short answer , Objective type

#### Unit-IV

##### Research approaches and designs

- Historical , survey and experimental
- Qualitative and Quantitative designs

Assessment Method: Short answer , Objective type

#### Unit-V

##### Sampling and data collection

- Definition of population , Sample , Sampling criteria, factors influencing 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-VI

##### Analysis of data

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

Assessment Method: Short answer. Objective type

#### Unit-VII

##### Introduction to statistics

- 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

Assessment Method: Short answer. Objective type

#### Unit-VIII

##### Communication and utilization of Research

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

Assessment Method: Short answer. Objective type. Oral presentation. Assessment of group research project.



# **B.Sc. Nursing 4th year**

**MIDWIFERY AND OBSTETRICAL NURSING**  
**(3<sup>rd</sup> year)**

**Note:-** Unless theory is taught, the student can't go for clinical/practical in midwifery and obstetrical nursing. So 45 hours theory & 180 hours clinical (*Unit-I to VI*) will be done in 3<sup>rd</sup> year but no university Exam of this paper will be held. *Unit-VII to XII* will be taught in 4<sup>th</sup> year & this paper exam will be held in 4<sup>th</sup> year covering the syllabus from unit-I to XII of both 3<sup>rd</sup> year & 4<sup>th</sup> Year teaching.

**Classroom teaching-45 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 skill rendering nursing care to normal and high-risk pregnant women during antenatal, natal and postnatal periods in hospitals and community settings. It also helps to develop skills in managing normal and high-risk neonates and participates in family welfare programme.

**Unit-1**

**Introduction to midwifery and obstetrical nursing**

- Introduction to concepts of midwifery and obstetrical nursing.
- Trends in midwifery and obstetrical nursing.
  - Historical perspectives and current trends.
  - Legal and ethical aspects
  - Pre-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

**Assessment method: short answer/objective type**

**Unit-II**

**Review of anatomy and physiology of female reproductive system and fetal development**

- 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 organ of reproductive- External genital, internal genital organs and their anatomical relations, musculature, blood supply, nerves, lymphatic, pelvic cellular tissue, pelvic peritoneum.
- Physiology of menstrual cycle
- Human sexuality
- Fetal development
  - Conception
  - Review of fertilization, Implantation (embedding of the ovum) development of the embryo and placenta at term- functions, abnormalities in the umbilical cord.
  - Fetal circulation, fetal skull, bones, sutures & measurements of diameters
  - Review of genetics

**Assessment method: Short answer / objective type.**

### **Unit- III**

#### **Assessment & Management of pregnancy (ante-natal)**

- Normal pregnancy
- Physiological changes during pregnancy
  - Reproductive system
  - Cardiovascular system
  - Respiratory system
  - Urinary system
  - Gastrointestinal system
  - Metabolic changes
  - Skin changes
  - Endocrine system
  - Psychological changes
  - Discomfort of pregnancy
- Diagnosis of pregnancy
  - Signs
  - Differential diagnosis
  - Confirmatory tests
- Antenatal care
  - Objectives
  - Assessment
    - History & physical examination
    - Antenatal examination
    - Signs of previous child birth
    - Relationship of fetus to uterus & pelvis: Lie, attitude, presentation, position
    - Per vaginal examination

- Screening & assessment for high risk
  - Risk approach
  - History & physical examination
  - Modalities of diagnosis, invasive & non-invasive, ultrasonic cardiotocography, NST, CST
- Antenatal preparation
  - Antenatal counselling
  - Antenatal exercises
  - Diet
  - Substance use
  - Education for child birth
  - Husband & families
  - Preparation for safe-confinement
  - Prevention from radiation
- Psychosocial & cultural aspects of pregnancy
- Adoption

**Assessment Method: Objective type/Short answer. Assessment of patient management problems. Assessment of skills with checklist.**

#### Unit-IV

##### Assessment & management of intra-natal period

- Physiology of labour, mechanism of labour
- Management of labour
  - First stage
    - Signs & symptoms of onset of labour, normal & abnormal labour, duration
    - Preparation of
      - ✓ Labour room
      - ✓ Women
    - Assessment & observation of women in labour, partograph- maternal & fetal monitoring
    - Active management of labour, induction of labour
    - Pain relief & comfort in labour
  - Second stage
    - Signs & symptoms: normal & abnormal, duration
    - Conduction of delivery: Principles & techniques
    - Episiotomy (only if required)
      - ✓ Neonatal resuscitation- Initial steps & subsequent resuscitation
      - ✓ Care of umbilical cord
      - ✓ Immediate assessment including screening for congenital anomalies
      - ✓ Identification
      - ✓ Bonding
      - ✓ Initiate breastfeeding
      - ✓ Screening & transportation of the neonate

- Third stage
  - Signs & symptoms: normal & abnormal, duration
  - Method of placental expulsion
  - Management- Principles & techniques
  - Examination of placenta
  - Examination of perineum
- Maintaining records & reports
- Fourth stage

**Assessment Method: Essay type/objective type/Short answer. Assessment of patient management problems. Assessment of skills with checklist.**

#### **Unit-V**

##### **Assessment & management of women during postnatal period**

- Normal puerperium: Physiology, duration
- Postnatal assessment & management
  - Promoting physical & emotional well being
  - Lactation management
  - Immunization
- Family dynamics after child birth
- Family welfare services: Methods, counselling
- Follow-up
- Records & Reports

**Assessment Method: Essay type/objective type/Short answer. Assessment of patient management problems. Assessment of skills with checklist.**

#### **Unit- VI**

##### **Assessment & management of normal neonates**

- Normal
  - Physiological adaptation
  - Initial & daily assessment
  - Essential newborn care: Thermo regulation, breastfeeding, prevention of infection
- Immunization
- Minor disorders of newborn & its management
- Levels of neonatal care ( level I, II, III) at primary, secondary & tertiary levels
- Maintenance of Records & Reports

**Assessment Method: Essay type/objective type/Short answer. Assessment of patient management problems. Assessment of skills with checklist.**

## MIDWIFERY AND OBSTETRICAL NURSING

(4<sup>th</sup> year)

Note:- Theory is taught, from *Unit-I to VI* in 3<sup>rd</sup> year student Midwifery and obstetrical nursing. So 45 hours theory & 180 hours clinical (*Unit-I to VI*) will be done in 3<sup>rd</sup> year but no university Exam of this paper is to be held in 3<sup>rd</sup> year. *Unit-VII to XII* will be taught in 4<sup>th</sup> year & this paper exam will be held in 4<sup>th</sup> year covering all syllabus from unit-I to XII of both 3<sup>rd</sup> year & 4<sup>th</sup> Year teaching.

Full Marks: 100

University Exam: 75

Internal Exam: 25

Duration of Exam: 3 Hours

class room teaching: 45 Hrs

### Unit-VII

#### High-risk pregnancy- Assessment & management

- Screening & assessment
  - Ultrasonic cardiotocography, NST, CST (non-invasive and invasive), newer modalities of diagnosis
- High-risk approach
- Levels of care: Primary, Secondary and Tertiary levels
- Disorders of pregnancy
  - Hyper-emesis Gravidarum, Bleeding in early pregnancy, abortion, Ectopic pregnancy, Vesicular mole
  - Ante partum Haemorrhage
- Uterine abnormality and displacement
- Diseases complicating pregnancy
  - Medical and surgical conditions
  - Infections, RTI(STD), UTI, HIV, TORCH
  - Gynaecological diseases complicating pregnancy
  - Pregnancy induced hypertension & diabetes, toxemia of pregnancy, Hydramnios
  - Rh-incompatibility
  - Mental disorders
- Adolescent pregnancy, Elderly primi and grand multipara
- Multiple pregnancy
- Abnormalities of placenta and cord
- Intra-uterine growth retardation
- Nursing management of mothers with high-risk pregnancy
- Maintenance of records & reports

Assessment Method: Essay type/objective type/Short answer. Assessment of patient management problems. Assessment of skills with checklist.

### Unit-VIII

#### Abnormal labour- Assessment and management

- Disorders in labour
  - CPD and contracted pelvis
  - Malpositions and Malpresentations

- Premature labour, disorder of uterine actions- precipitate labour, prolonged labour
- Complications of third stage: Injuries to birth canal
- Obstetrical procedures and operations
  - Introduction of labour ,forceps, vacuum version, Manual removal of placenta, caesarean section, destructive section
- Nursing management of women undergoing obstetrical operations and procedures

**Assessment Method: Essay type/objective type/Short answer. Assessment of Skills with checklist. Assessment of patient management problems of postnatal complications**

#### **Unit- IX**

##### **Abnormalities during postnatal periods**

- **Assessment & management of women with postnatal complications**
  - Puerperal infections, breast engorgement & infection, UTI, thrombo embolic disorder, post-partum haemorrhage, eclampsia & sub involution.
- Psychological complications: Post partum Blues, Post partum depression, Post partum psychosis.

**Assessment Method: Objective type. Assessment of Skills with checklist. Assessment of patient management problems.**

#### **Unit-X**

##### **Assessment & management of high risk newborn**

- Admission of neonates in the neonatal intensive care units protocols
- Nursing management of:
  - Low birth weight babies
  - Infections
  - Respiratory problems
  - Haemolytic disorders
  - Birth injuries
  - Malformation
- Monitoring of high risk neonates
- Feeding of high risk neonates
- Organization & management of neonatal intensive care units
- Infection control in neonatal intensive care units
- Maintenance of records & reports

**Assessment Method: Essay type/objective type/Short answer. Assessment of Skills with checklist. Assessment of patient management problems**

#### **Unit- XI**

##### **Pharmaco-therapeutics in obstetrics**

- Indication, dosage, action, contraindication & side effect of drugs
- Effect of drug in pregnancy, labour & puerperium
- Nursing responsibilities in the administration of drug in obstetrics- oxytocins, analgesics & anaesthetics in obstetrics

- 111 -
- Effect of maternal medication on fetus & neonate

**Assessment Method: Short answer/objective type.**

## **Unit- XII**

### **Family welfare programme**

- Population trends & problem in India
- Concepts, aims, importance & history of family welfare programme
- National population: Dynamics, policy & education
- National family welfare programme: RCH, ICDS, MCH, Safe motherhood
- Organization & administration: At national, state, district, block & village levels
- Methods of contraception: Spacing, temporary & permanent & emergency contraception
- Infertility & its management
- Counselling for family welfare
- Latest research in contraception
- Maintenance of vital statistics
- Role of national, international & voluntary organizations
- Role of a nurse in family welfare programme
- Training/ supervision/ collaboration with other functionaries in community like ANMs, LHV, Anganwadi workers, TBAs( Trained Birth Attendant-dai)

**Assessment Method: Essay type/objective type/Short answer. Assessment of Skills with checklist, projects & field visit reports.**



**MIDWIFERY AND OBSTETICAL NURSING ( PRACTICAL)**

Full Marks:100 (4TH Year)  
University Exam :50 (4TH Year)  
Internal Exam : 50 (4th Year)

Clinical Practice-180 Hrs  
(Each Year in 3rd & 4th)

**Unit-I**

**Antenatal Clinic/OPD ( 2 weeks)**

- Antenatal history taking
- Physical examination
- Recording of weight & B.P.
- Hb & Urine testing for sugar and albumin
- Antenatal examination-abdomen and breast
- Immunization
- Assessment of risk status
- Teaching antenatal mothers
- Maintenance of antenatal records

**Assignments :**

- Conduct antenatal
- Examinations 30
- Health talk-1
- Case book recordings

**Assessment Method :** Verification of findings of antenatal examinations . Completion of casebook recordings

**Unit-II**

**Labour room O.T. (4 weeks)**

- Assessment of woman in labour
- Per vaginal examinations and interpretation
- Maintenance and caring of woman 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
- Arrange for and assist with caesarean section and care for woman & baby during caesarean
- Arrange for and assist with MTP and other surgical procedures

**Assignments :**

- \* conduct normal delivery-20
- \* pervaginal examination-5
- \* perform and suture the episiotomies-5
- \* Resuscitate newborn-5
- \* Assist with caesarean section-2
- \* Witness abnormal deliveries-5
- Assist with MTP and other surgical procedures-1
- Case book recordings

**Assessment Method :** Assessment of clinical performance with rating scale . Assessment of each skill with checklists . Completion of case recordings

**Unit-III**

**Post natal ward ( 4 weeks )**

- Examination and assessment of mother and baby
- Identification of deviation
- Care of postnatal mother and baby
- Perineal care
- Lactation management
- Breast feeding
- Immunization
- Teaching postnatal mother :
  - Mother craft
  - Post natal care and
  - Exercises
  - Immunization

**Assignments :**

- \* Give care to post natal mothers-20
- Health talk-1
- Case book recordings

**Assessment Method :** Assessment of clinical performance . Assessment of each skill with checklists . Completion of case book recording. Evaluation of case study and presentation and health education sessions

**Unit-IV**

**Newborn nursery ( 2 weeks)**

- Newborn assessment
- Admission of neonates

- Feeding of at risk neonates
  - Katori spoon, paladin , tube feeding , total parenteral nutrition
- Thermal management of neonates-kangaroo mother care , care of baby in incubator
- Monitoring and care of neonates
- Administering medications
- Intravenous therapy
- Assisting with diagnostic procedure
- Assisting with exchange transfusion
- Care of baby on ventilator
- Phototherapy
- Infection control protocols in the nursery
- Teaching and counseling of parents
- Maintenance neonatal records

**Assignments :**

- Case study-1
- Observation study-1

**Assessment Method :** Assessment of clinical performance . Assessment of each skill with checklists . Evaluation and observation study .

**Unit-V**

**Family planning clinic**

- Counseling technique
- Insertation of IUD
- Teaching On Use Of Family Planning Methods
- Arrange for and Assist with Family Planning Operations
- Maintenance of records and reports

**Assignments :**

- \* IUD insertion-5
- Observation study-1
- Counseling-2
- Simulation exercise of recording and reporting-1
- 

**Assessment Method :** Assessment of each skill with checklists . Evaluation and observation study .

- **Essential requirements for registration as midwife**
  - ❖ Antenatal examination
  - ❖ Conducting normal deliveries in hospital/home/health centre
  - ❖ Vaginal examination

- ❖ Episiotomy and suturing
- ❖ Neonatal resuscitation
- ❖ Assist with caesarean section
- ❖ Witness/assist abnormal deliveries
- ❖ Postnatal cases nursed in hospital /home /health centre
- ❖ Insertion of IUD

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

## COMMUNITY HEALTH NURSING-II

(4<sup>th</sup> Year)

Full Marks:100

University Exam :75

Internal Exam : 25

Duration of Exam- 3 Hours

Class room teaching -90 Hrs

### Objective of the course :

The course is designed for students to practice community health nursing for the individual family and groups at both urban and rural setting by using concept and principles of health and community health nursing.

### Unit-I

#### Introduction

- Definition , concept & scope of community health and community health nursing
- Historical development of
  - Community health
  - Community health nursing-Pre-independence
  - Post- independence
- **Human Population and the Environment**
- Population growth , variation among nations
- Population explosion-Family Welfare Programme
- Environment and human health
- Human rights
- Value education
- HIV/AIDS
- Women and Child Welfare
- Role of Information technology in Environment and Human Hygiene
- Case studies

**Assessment Method :** Essay type and short answer questions

### Unit-II

#### Health planning and policies and problems

- National health planning in India-Five years 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

**Assessment Method :** Essay type and short answer questions

### Unit-III

#### Delivery of community health services

- Planning budgeting and material management of SCs, PHC and CHC
- Rural : organization, staffing and functions of rural health services provided by government at :
- Village
  - Sub centre
  - Primary health centre

- Community health centre / Sub divisional
- Hospitals
- District
- State
- centre

**Urban :** organization, staffing and functions of urban health services provided by government at :

- Slums
- Dispensaries
- Maternal and child health centres
- Special clinic
- Hospitals
- Corporation/ Municipality
- Components of health service
  - Environmental sanitation
  - Health Education
  - Vital statistics
  - M.C.H. –antenatal , natal , post natal , MTP Act, female goeticide act child adoption act
  - Family Welfare
  - National health programmes
  - School health services
  - Occupational health
  - Defenses 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

**Assessment Method :** Essay type and short answer questions

#### Unit-IV

Community health nursing approaches , concepts and roles and responsibilities of nursing personnel

- 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
  - Organization of clinics , camps : Types , preparation , Planning , conduct and evaluation
  - Waste management in the centre , 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-V**

#### **Assisting individuals and groups to promote and maintain their health**

- Empowerment for self care of individuals , families and groups in
- A. Assessment of self and family**
  - Monitoring growth and development
    - Weight measurement
    - Social development
  - Temperature and Blood pressure monitoring
  - Menstrual cycle
  - Breast self examination and testicles
  - Warning signs of various diseases
  - 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 family
- D. Continue medical care and follow up in community for various diseases and disabilities
- E. Carry therapeutic procedures as prescribed/required for self and family
- F. Waste Management
  - Collection and disposal 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 physical and mentally challenged individuals
  - Home for destitute

**Assessment Method :** Essay type and short answer questions

#### **Unit-VI**

#### **National health and family welfare Programmes and the role of a nurse**

- 1) National ARI Programme
- 2) Revised National Tuberculosis Control Programme (RNTCP)
- 3) National Anti-Malaria Programme
- 4) National Filariasis 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

**Assessment Method :** Essay type and short answer questions

#### Unit-VII

- Health Agencies
  - 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 (EPAI) , Tuberculosis Association of India, Hindu Kush Nivaran Sangh , Central Social Welfare Board . All India Women's conference, Blind Association of India etc.

**Assessment Method :** Essay type and short answer questions

#### Unit-VIII

##### Field Work

- Visit to a local polluted site-Urban/Rural/Industrial/Agriculture

##### Project Work

##### Arrangement of Exhibition

Revised Unit Plan for 4<sup>th</sup> year B.Sc(Nursing)  
SUBJECT: Community Health Nursing-II(Integration of MLHP(Middle Level Health Provider)  
Unit-VI B Theory  
Hours: 42

1. Roles and responsibility of MLHP/CHO
  - Roles expected from CHO during their posting at sub-centre in the community.
2. New National Health Programmes:
  - Includes updates in National Health Programmes in RMNCAH+N, Adolescent Health, MHS, PMSMA, Dakshata, SUMAN-surakshit Matritva Aashwasa, WIFS & National Iron Plus Initiative guideline, NTEP, NPCBVI, NPHCE, NPPCD, NTCP, NOHP, NPPC, NPPMBI.
  - Technical updates-Vit-A supplementation, Iron supplementation, Albendazole and Calcium supplementation to pregnant women, antenatal corticosteroids.
3. Aushman Bharat, CPHC concept, Key elements :
  - Up gradation of SC-HWC: Concept of CPHC-CPHC Guideline:PMJAY.
4. Standard Treatment Protocols at SC :
  - CPHC Guidelines.
5. RBSK :
  - The recent updates and programmatic components.
6. Social Mobilization Skills :
  - Understand the concepts and benefits social mobilization.
  - Role of Health Worker in social mobilization.
7. Drug dispensing :
  - Drug prescription: Drug dispensing, Administration of Medication(Oral and Injection).
  - Handling and disposal of Injection related wastes.
8. Programme Management Including Monitoring and Supervision :
  - SC-HWC as a programme and its impact on community health.
  - CHO's roles as Manager.
  - Concepts of Leadership, Supervision, Monitoring and De-stressing.
9. Investigation of Out Break :
  - Steps of Investigation of an Out Break with example of Out Break of Acute Gastro-Enteritis.
10. BCC and Soft Skills :
  - Basics of Communication, Health Belief Model, Behavior change and problem solving.

Contd. Page-B

11. IDSP :
  - Integrated Diseases Surveillance Programme under Communicable Diseases.
12. MCTS :
  - ANMOL/RCH Portal and its Implications in improving MCH.
13. Chickungunya :
  - Diseases Characteristics, Care and Management.
14. Organization of Labour Room :
  - Standardization of Labour Room at Delivery Points.
15. Safe Child Birth Check List.
16. Postpartum visits by Health Workers.
17. Family Planning 2020.
18. National Family Planning Programmes.
19. Food born Diseases.

**Assignments-B Time**

**Practical  
Hours-33**

**SUBJECT: Practical-Community Health Nursing-II**  
**Area, Community Health Nursing (Urban and Rural including MLHP(Integration of Middle Level Health Provider))**

**Total Time Practical-135 Hours+33 Hours=168 Hours**

1. Aushman Bharat, CPHC concept, Key elements :
  - Visit to SC-HWC during the Internship, Understand Functionalities of SC-HWC using check list.
2. Standard Treatment Protocols at SC :
  - Diagnostics at SC-HWC.
3. RBSK:
  - Activity 38.3 and 41 of Module 3 of CCH.
4. Social Mobilization Skills :
  - Activity 8 of Module 3 of CCH
5. Drug dispensing:
  - Activity 14 of Module 3 of CCH
6. Investigation of Out Break:
  - Activity 5 of Module 3 of CCH
7. MCTS :
  - Hands -On Experience on ANMOL tablets during visit to SC.
8. Organization of Labour Room:
  - Skill Demonstration/Orientation in Skill Lab. Or during Labour Room Visits.

**NB:** On receipt of notification from INC and Instruction from ONMRC we have taught both theory and practical in Community Health Nursing-II to the 4<sup>th</sup> year students of B.Sc(N) during 2019-20.

## Community Health Nursing-II

(Practical)

(4<sup>th</sup> Year)

Time Practical-135 Hours

### Practical

Area: Community Health Nursing ( Urban and Rural )

Duration: One week for Urban and four week for Rural ( 135 Hours )

Objectives: To identify the community profile. To identify prevalent communicable and non-communicable disease . To diagnose health needs of individual family and community and to plan provide and evaluate care. To participate in school health program and national health programs. To organize group for self help and involve clients in their own health activities . To provide family welfare services and counsel and educate individual, family and community . To collect vital health statistics and to know how to maintain records and reports.

Skills: Community health survey . Community diagnosis. Family care : home adaptation of common procedures . Home visit : Bag technique. Organize and conduct clinics antenatal, post natal , well baby clinic, camps etc. Screen manages and referrals for : high risk mothers and neonates . Accidents and emergencies. Illness : Physical and mental-Disabilities. Conduct delivery at centre/home: episiotomy and suturing . Resuscitate newborn. School health programme-Screen , manage, refer children. Collaborate with health allied 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 . Adolescent , elderly's health , physically and mentally challenged individuals etc. Collect and calculate vital health statistics. Document and maintain Individual, family and administrative records , write report centre , disease national health programme/projects .

### Assignments:

- Community survey report-1
- Family care study-1
- Project-1
- Health talk-1
- Case book recording.

**Assessment method :** Assess clinical performance with rating scale . Evaluation of community survey report , family care study , project and health talk. Completion of activity record and case book recordings.

## MANAGEMENT OF NURSING SERVICES AND EDUCATION

(4<sup>th</sup> Year)

**Full Marks:** 100

**University Exam :** 75

**Internal Exam :** 25

**Duration of Exam-** 3 Hours

**Class room teaching -** 90 Hrs

### Unit-I

#### Introduction to management in nursing

- Definition, concepts and theories
- Functions of Management
- Principles of Management
- Role of nurse as a Management

**Assessment Method:** Short answer

### Unit-II

#### Management process

- Planning: mission, philosophy, objectives, operational plan
- Staffing: philosophy, staffing study, norms, activities, patient classification systems, scheduling
- Human resources management: recruiting, selecting, deployment, retaining, promoting, superannuation 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 making, Activity Plan (Gantt Chart)

**Assessment Method:** Essay type/Short type

### Unit-III

#### Management of nursing services in the hospital and Community

- 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
- Patient/population classification systems
- 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
  - Assignments , 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

**Assessment Method:** Essay type/Short answers . Assessment of problem solving exercises, assessment of the assignments, performance evaluation by ward sister with rating scale.

#### Unit-IV

##### Organizational behavior and human relations

- Concepts 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
- Relation with professional association and employee unions and collective bargaining

**Assessment Method:** Essay type/Short answers . Assessment of problem solving.

#### Unit-V

##### In service education

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

**Assessment Method:** Short answers . Assess the planning & conduct of the educational session .

#### Unit-VI

##### Management of nursing educational institutions

- Establishment of Nursing educational institution-INC norms and guidelines
- Co-ordination
  - Regulatory bodies
  - Accreditation
  - Affiliation- Philosophy / Objectives  
-organization
  - Structure
  - Committee-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 equipments  
laboratory equipment , books , journals etc.
- Curriculum : Planning , implementation and evaluation
- Clinical facilities
- Transport facilities
- Institutional Records and reports – administrative , faculty , staff and  
students

Assessment Method : Short type / Short answers

#### Unit-VII

##### Nursing as profession

- Nursing as 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 nursing practice : breach and penalties
  - Malpractice and negligence

**Assessment Method :** Short type / Short answers

#### **Unit-VIII**

##### **Professional advancement :**

- Continuing education
- Career opportunities
- Collective bargaining
- Membership with professional organizations : national and International
- Publications : Journals , newspaper etc

**Assessment Method :** Short answers .



# **INTERNSHIP (INTEGRATED PRACTICE)**

## INTERNSHIP ( Integrated Practice )

Total duration : 1152 Hrs ( 24 weeks ) 8 Hrs per day ( i.e. 48 Hrs per week )

### Midwifery & obstetrical Nursing

Duration	:	240 Hours ( 5 weeks )
Area	:	Labour ward ( 2 weeks ) Neonatal intensive care unit / NICU ( 1 week ) Antenatal ( 2 weeks )
Objective	:	Provide comprehensive care to mothers and neonates
Skills	:	Integrated practice
Assignment	:	Completion of other essential requirements and case book Recording
Assessment	:	Assess clinical performance with rating scale and completion of case book recordings

### Community Health Nursing-II

Duration	:	192 Hours ( 4 weeks ) { ( 192 Hrs ( 8 Hours per day ) }
Area	:	Urban & Rural
Objective	:	To provide comprehensive care to individual , family and community of Urban and Rural
Skills	:	Integrated practice and group project- 1 in each rural and urban.
Assessment	:	Assess clinical performance with rating scale . Evaluation of report
Note:	:	During the rural posting they should stay in health canters under the supervision of teachers.

### Medical Surgical Nursing ( Adult including Geriatrics)-I

Duration-1

#### Unit-I

Area-ICU , CCU , CARDIAC OT ( 2 weeks )

- Assist in arterial puncture for blood gas analysis
- Perform ECG & interpret accordingly
- Conduct & analysis pulse oximetry
- Care with artificial airway
- Assist in end tracheal intubations
- Setting up ventilator

- Giving care in ventilator
- Drug sheet
- Observation of special procedure in OT

**Assignment:**

- Arterial puncture-5
- Talking out ECG strip-5
- Tracheal suction-5 ( for all assigned patient)
- Oxygen administrative by CPAP mask and use Ambu bag ( for all assigned patient )
- Nursing care in ventilator
- Drug sheet

**Assessment :** Record book checking .

**Unit-II**

**Area-Neuro ICU, ITU , OT ( 2 weeks)**

- Assess neurological status
- Implement care to head injury spinal injury patients
- Drug sheet
- Pre & postoperative care with neuron surgery patients

**Assignment:**

- Assessment for assigned patients
- Nursing care plan-2
- Drug sheet

**Assessment :** Record book checking .

**Unit-III**

**Area-Burns and plastic reconstructive surgery surgery ( 2 weeks)**

- Nursing care- assess the severity of burn
- Administer rehydration therapy

**Assignment:**

- Assist 5 cases

**Assessment :** Record book checking .

**Unit-IV**

**Area – OT Laparoscopic , Orthopaedic , Eye , ENT ( 3 weeks )**

- Nursing care
- Assist in OT tale layout

- Observe immediately after operation
- Supervise infection control

**Assignment:**

- Assist 5 cases

**Assessment :** Record book checking .

**Medical Surgical Nursing ( Adult including Geriatrics)-II**

<b>Duration</b>	:	432 Hours ( 9 weeks)
<b>Unit-I</b>		(2 weeks)
<b>Area</b>	:	<b>Medical Ward</b>
<b>Objective:</b>		Provide comprehensive care to patients with medical and surgical conditions including emergencies
<b>Skills</b>	:	Integrated practice .
<b>Assessment :</b>		Assess clinical performance with rating scale .
<b>Unit-II</b>		(2 weeks)
<b>Area</b>	:	<b>Surgical Ward</b>
<b>Objective</b>	:	Assist with common operation
<b>Skills</b>	:	Integrated practice .
<b>Assessment :</b>		Assess clinical performance with rating scale .
<b>Unit-III</b>		(1 week)
<b>Area</b>	:	<b>Critical Care Unit/ICCU</b>
<b>Objective</b>	:	Provide comprehensive care to patients with medical and surgical conditions including emergencies
<b>Skills</b>	:	Integrated practice.
<b>Assessment :</b>		Assess clinical performance with rating scale .
<b>Unit-IV</b>		(2 weeks)
<b>Area</b>	:	<b>Casualty / Emergency</b>
<b>Objective</b>	:	Provide comprehensive care to patients with medical and surgical conditions including emergencies
<b>Skills</b>	:	Integrated practice.
<b>Assessment :</b>		Assess clinical performance with rating scale .
<b>Unit-V</b>		(2 weeks)
<b>Area</b>	:	<b>Operation Theatre ( Eye , ENT, Neuro</b>
<b>Objective</b>	:	Provide comprehensive care to patients with medical and surgical conditions including emergencies
<b>Skills</b>	:	Integrated practice.
<b>Assessment :</b>		Assess clinical performance with rating scale

### Child Health

**Duration:** 144 Hours ( 3 weeks )  
**Unit-I** (1 week)  
**Area :** **Pediatric Medicine ward /ICU**  
**Objective :** Provide comprehensive care to children with medical conditions including emergencies  
Assess clinical performance with rating scale  
**Skills :** Integrated practice.  
**Assessment :** Assess clinical performance with rating scale

**Unit-II** (1 week)

**Area :** **Pediatric surgery ward/ICU**  
**Objective :** Provide comprehensive care to patients children with medical conditions .  
**Skills :** Integrated practice.  
**Assessment :** Assess clinical performance with rating scale

**Unit-III** (1 week)

**Area :** **NICU**  
**Objective :** Provide intensive care to neonates  
**Skills :** Integrated practice.  
**Assessment :** Assess clinical performance with rating scale

### Mental Health Nursing

**Duration** 96 Hours ( 2 weeks)

**Area :** **Psychiatry ward**  
**Objective :** Provide comprehensive care to patients with Mental Health problems  
**Skills :** Integrated practice.  
**Assessment :** Assess clinical performance with rating scale

### Research Project

**Duration :** 48 Hours ( 1 week )