

HAND BOOK FOR STUDENTS

B.Sc., NURSING (4 YEARS) COURSE REGULATIONS

(Subject to modification from time to time)



**Dr. NTR UNIVERSITY OF HEALTH SCIENCES
VIJAYAWADA - 520 008**

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REGULATIONS FOR B.Sc. (Nursing) COURSE

These regulations will be called the **REGULATIONS FOR B.Sc NURSING COURSE OF Dr. NTR UNIVERSITY OF HEALTH SCIENCES, ANDHRA PRADESH, VIJAYAWADA**. These regulations are applicable to the students admitted from the Academic Year of 2013 - 2014.

Education is a life long process and a graduate Nurse emerging out of the University of Health Sciences should be ready to learn through out life. She/he must bloom into a cultivated, creative, self directed, knowledgeable person whose education has encouraged a continuous process of development as a person, professional, citizen and an agent of social change.

1. OBJECTIVES:

On completion of the four year B.Sc Nursing program the graduate will be able to:

1. Apply knowledge from physical, biological and behavioural sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities at large.
2. Demonstrate understanding of life style and other factors, which affect health of individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
4. Develop critical thinking skills in making decisions in all situations in order to provide quality care.
5. Utilize the latest trends and technology in providing health care
6. Provide promotive, preventive and restorative health services in line with the national health policies and programmes.
7. Practice within the framework of code of ethics, professional conduct, and legal boundaries.
8. Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and group in Clinical/ community health settings.

10. Participate effectively as a member of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical/community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
13. Demonstrate awareness, interest and contribute towards advancement of self and of the profession.

2. ELIGIBILITY FOR ADMISSION: (INC Guidelines 2012-13)

1. Minimum age for admission shall be 17 yrs on or before 31st December of the year of admission.
2. Minimum educational requirement shall be passing of 12 years course or 10 + 2 years course with biological sciences or an equivalent of 12 years schooling from a recognized board with science (physics, chemistry, biology) and English with minimum of 45% aggregate marks.
3. Candidates should be medically fit.

3. DURATION OF THE COURSE :

Duration of the course shall be four academic years including internship.

4. MEDIUM OF INSTRUCTION AND EXAMINATION :

ENGLISH shall be the medium of Instruction and Examination.

5. WORKING DAYS IN THE ACADEMIC YEAR :

Academic year shall consist of not less than 260 Working days including University Examinations.

6. ATTENDANCE REQUIRED FOR ADMISSION TO EXAMINATION :

- a. A candidate shall be permitted to appear in any of the subjects of the B.Sc, Nursing Degree Examination, if she has attended the course in the subject for the prescribed period and produce the Certificate of Study, attendance and satisfactory conduct from the Principal.
- b. A candidate shall put in a minimum of 80% of attendance in both theory and practicals separately in each subject before admission to the examination. Attendance shall be calculated from the total number of hours prescribed by INC and not on the number of classes conducted in the institution.
- c. The Principal of the college should ensure that the candidate put in 100% attendance in practicals. The marks sheet, degree certificate, course completion certificate are to be withheld until 100% attendance requirement in practicals is met with (INC guidelines dated. 01-02-2012).
- d. Referred/failed candidates have to put in minimum percentage of attendance for eligibility to appear for re-examination.

7. ELIGIBILITY FOR PROMOTION:- (INC Guidelines 2012-13)

1. The maximum period to complete the course successfully should not exceed 8 years.
2. If a candidate fails either in theory or in practical examination, she/he has to reappear for both examinations (theory + practical).
3. The number of attempts for examination has been waived off. However to appear for final year examination, the candidate shall have cleared all the previous examinations.
4. The minimum age for admission shall be 17 years on 31st December of the year in which admission is sought.
5. Minimum education:
10+2 class passed with Science (PCB) & English core/English elective with aggregate of 45% marks from recognized boards under AISSCE/ CBSE/ICSE/SSCE/HSCE or other equivalent Board.
6. Student shall be medically fit.

7. Student appearing In 10+2 examination in Science conducted by National Institute of open School with 45%marks.
8. Student shall be admitted once in a year.

8. Attempt:

When a candidate is eligible to appear for the examination, but not applied / registered / absent for the examination, it is considered as an attempt.

9. Grace Marks :

Grace marks should not exceed 5 Marks in total marks for one academic year in theory paper only.

10. Maternity Leave:

Women candidates are eligible for maternity leave up to 90 days. However they have to satisfy the criteria for eligibility to appear for the examination like other candidates.

11. INTERNAL ASSESSMENT:

- a. A student must obtain a minimum of 50% of the maximum marks fixed for internal assessment in that particular subject.
- b. A minimum of three written Examinations shall be conducted in each subject and the average marks of the three examinations shall be taken as the final internal assessment marks. In addition, one practical internal assessment exam should be conducted in the subjects of Nursing Foundation, Medical-Surgical Nursing, child Health Nursing, Mental Health Nursing, Midwifery and Obstetrical Nursing, and Community Health Nursing. 50% of internal assessment marks should be for Theory and 50% for practical exam.
- c. Fresh internal assessment exam is mandatory to the referred and detained students. Previous internal assessment marks will not be considered for subsequent appearance(s).
- d. The internal assessment marks should be submitted to the Principal by the respective Head of the Department/teacher concerned atleast **four** weeks before the commencement of the Theory Examinations. The Principal has to forward a copy of the same to the Registrar or an officer authorized by him to receive the same, atleast **three** weeks before the commencement of the Theory Examinations.

- e. The same shall be displayed in the college notice board, before sending to University for any objections.
- f. No institution shall submit average internal marks of the total students more than 75% i.e. if 40 students are admitted in a course the average score of the 40 students shall not exceed 75% of total internal marks.

12. READMISSION:

Every student shall attend all the theory/practical/clinical classes on all working days. [Ch. VI, (Statutes, Ordinances and Regulations) Section 33 of Dr. NTR UHS act 1986]

- i. Break of study means any absence more than 3 months during the course of study.
- ii. 3 months for this purpose is a period of 90 days (ninety days) to be recorded from the date of absence irrespective of the number of days in one calendar month.
- iii. For all practical purpose only two types of break of study is allowed.
 - a. Less than 3 months of break (as per definition)
 - b. More than 3 months of break but less than the twice the number of years of study of a particular course.
 - Ex. For MBBS/BDS twice the number of years of study is 9 years.
 - For B.Sc (Nursing) / Physiotherapy is 8 years.
- iv. If the candidate is on Break of study for two spells in an academic year of a particular course the candidate is deemed to have been discharged from the course of study. **One cannot apply for condonation of the break.**
- v. **Only two spells of break of study** for the entire duration of the course is permitted. During second spell of break of study even if the break of study is less than 90 days, permission must be obtained from the University and that spell of Break shall also be counted as second spell of break.
- vi. For less than three months of break, the Principal/Dean of the college can permit to rejoin in to the course under intimation to the University.
- vii. If the break of study is more than three months the candidate has to apply to the university through the Principal/Dean of the college. The University can give permission to the candidate to complete the course within twice the years of the study of the particular course.

13. COURSE OF STUDY:

The Course of study and the scheme of examination for 4 YDC B.Sc., Nursing Degree shall be as follows

Duration:	
Course duration	: 4 Years
Weeks available per year	: 52 weeks
Vacation	: 08 weeks
Gazetted holidays	: 03 weeks
Examination (Including preparatory)	: 04 weeks
Available weeks	: 37 weeks
Hours per week	: 40
Practical	: 30 hours per week
Theory	: 10 hours per week
Internship practical	: 48 hours per week
Hours available per academic year	: 1480 (37 weeks x 40 hours)

14. COURSE INSTRUCTIONS

First Year

	Subject	Theory (In hrs.) (class and lab)	Practical (In hrs.) (clinic)	(In hrs.)
1.	* English	60		
2.	Anatomy	60		
3.	Physiology	60		
4.	Nutrition	60		
5.	Biochemistry	30		
6.	Nursing Foundations	265 + 200	450	
7.	Psychology	60		
8.	Microbiology	60		
9.	Introduction to Computers	45		
10.	** Hindi/Regional language	30		
11.	Library Work / Self Study			50
12.	Co-curricular activities			50
	Total Hours	930	450	100
	Total hours = 1480 hrs			

* Minimum pass marks – 40%

** Optional subject

Second Year

	Subject	Theory (In hrs.) (class and lab)	Practical (In hrs.) (clinic)	(In hrs.)
1.	Sociology	- 60		
2.	Pharmacology	45		
3.	Pathology and	30		
4.	Genetics	15		
5.	Medical-Surgical Nursing (Adult including Geriatrics)-I	210	720	
6.	Community Health Nursing-I	90	135	
7.	Communication and Educational Technology	60 + 30		
8.	Library Work / Self Study			50
9.	Co-curricular activities			35
	Total Hours	540	855	85
	Total hours = 1480 hrs			

Third Year

	Subject	Theory (In hrs.) (class and lab)	Practical (In hrs.) (clinic)	(In hrs.)
1.	Medical-Surgical nursing (Adult including Geriatrics)-II	150	270	
2.	Child Health Nursing	100	270	
3.	Mental Health Nursing	100	270	
4.	Midwifery and Obstetrical Nursing- I	40	180	
5.	Library Work / Self Study			50
6.	Co-curricular activities			50
	Total Hours	390	990	100
	Total hours = 1480 hrs			

Fourth Year

	Subject	Theory (In hrs.) (class and lab)	Practical (In hrs.) (clinic)	(In hrs.)
1.	Midwifery and Obstetrical nursing – II & Practical	60	180	
2.	Community Health Nursing - II	90	135	
3.	Nursing Research & Statistics	45	*	
4.	Management of Nursing Services & education	60 + 30		
	Total Hours	285	315	
	Total hours = 600 hrs			

Project Work should be carried out during internship.

Internship (Integrated Practice)

Practical = 30 hours per week

	Subject	Theory (In hrs.) (class and lab)	Practical (In hrs.) (clinic)	(In hrs.)
1.	Midwifery and Obstetrical nursing		240	5
2.	Community Health Nursing-II		195	4
3.	Medical-Surgical nursing (Adult including Geriatrics)		430	9
4.	Child Health		145	3
5.	Mental Health		95	2
6.	Research Project		45	1
	Total Hours		1150	24
	Total hours = 1174 hrs			

Note:

1. Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
2. Internship should be carried out as 8 hours per day @ 48 hours per week.
3. Students will be supervised by nursing teachers during internship.
4. Fourth year final examination will be held only after completing internship.

15. Scheme of Examination:**First Year**

Theory	Subject	Assessment			
		Hours	Internal	External	Total
1.	Anatomy and Physiology	3	25	75	100
2.	Nutrition and Biochemistry	3	25	75	100
3.	Nursing Foundations	3	25	75	100
4.	Psychology	3	25	75	100
5.	Microbiology	3	25	75	100
6.	English	3	25	75	100
7.	Introduction to Computers		25	75	100
Practical and Viva Voice					
1.	Nursing Foundations		100	100	200

Second Year

Theory	Subject	Assessment			
		Hours	Internal	External	Total
8.	Sociology	3	25	75	100
9.	Medical-Surgical Nursing-I	3	25	75	100
10.	Pharmacology, Pathology, Genetics	3	25	75	100
11.	Community Health Nursing-I	3	25	75	100
12.	Communication and Educational Technology	3	25	75	100
Practical and Viva Voice					
2.	Medical-Surgical Nursing-I		100	100	200

Third Year

Subject		Assessment			
Theory		Hours	Internal	Exrernal	Total
13.	Medical-surgical	3	25	75	100
14.	Child Health	3	25	75	100
15.	Mental Health	3	25	75	100
16.	Midwifery and Obstetrical Nursing - 1	3	25	75	100
Practical and Viva Voice					
3.	Medical-Surgical Nursing-II		50	50	100
4.	Child Health Nursing		50	50	100
5.	Mental Health Nursing		50	50	100

Fourth Year

Subject		Assessment			
Thory		Hours	Internal	External	Total
17.	Midwifery and Obstetrical Nursing -II	3	25	75	100
18.	Community Health Nursing-11	3	25	75	100
19.	Nursing Research & Statistics	3	25	75	100
20.	Management Of Nursing Sercive and education	3	25	75	100
Practical and Viva Voice					
6.	Midwifery and Obstetrical Nursing		50	50	100
7.	Community Health Nursing -II		50	50	100

Note:

1. Anatomy and Physiology – Question paper consists of Section 'A' Anatomy of 37 marks and Section 'B' Physiology of 38 marks.
2. Nutrition and Biochemistry – Question Paper consists of Section 'A' Nutrition of 45 marks and Section 'B' Biochemistry of 30 marks.
3. Pharmacology, Genetics, Pathology: Section 'A' Pharmacology of 38 marks, Section 'B' Pathology of 25 and Genetics of 12 marks.
4. Nursing Research & Statistics – Nursing Research Paper is of 50 marks and Statistics of 25 marks.
5. For English, The Minimum pass marks shall be 40%
6. Minimum pass marks in other subjects shall be 50% in each of the Theory and Practicals separately.
7. Theory and Practical exams for Introduction to computer to be conducted as College examination and marks to be sent to the University for inclusion in the marks sheet.
8. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
9. A candidate must have 100% attendance in each of the practical areas before award of degree.
10. A candidate has to pass in Internal and External exam separately in each of the examinations.
11. If a candidate fails in either theory or practical examination, he/she has to re – appear for both the Theory and Practical examinations.
12. Maximum of 5 grace marks for each subject is not permitted, and grace marks should not exceed 5 marks in total marks for one academic year in theory paper only.
3. The maximum period to complete the course successfully should not exceed 8 years

14. The maximum period to complete the course successfully should not exceed 8 years
15. Maximum number of candidates for practical examination should not exceed 20 per day.
16. All practical examinations must be held in the respective clinical areas.
17. One internal and One external examiner should jointly conduct practical examination for each student.
18. An examiner should be a lecturer or above in a college of nursing with M.Sc.,(N) in concerned subject and with minimum of three years of teaching experience. To be an examiner for nursing foundations course, faculty having M.Sc.(N) with any speciality shall be considered.

B.Sc NURSING 4 years course

First Year Syllabus:

- 1. Nursing Foundations & Practical**
- 2. Anatomy**
- 3. Physiology**
- 4. Biochemistry**
- 5. Nutrition**
- 6. Microbiology**
- 7. Psychology**
- 8. English**
- 9. Introduction to Computers**

NURSING FOUNDATIONS

Placement: First Year

Time: Theory - 265 hours

Course Description: This 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.

Learning objectives:

- Describe the concept of health, illness and health care agencies
- Explain concept and scope of nursing
- Describe values, code of ethics and professional conduct for nurses of India
- Explain the admission and discharge procedure
- Performs admission and discharge procedure
- Communicate effectively with patient, families and team members and maintain effective human relations (projecting professional image)
- Appreciate the importance of patient teaching in nursing
- Explain the concept, uses, format and steps of nursing process
- Documents nursing process as per the format
- Describe the purposes, types and techniques of recording and reporting
- Describe principles and techniques of monitoring and maintaining vital signs
- Monitor and maintain vital signs
- Describe purpose and process of health assessment
- Describe the health assessment of each body system
- Perform health assessment of each body system
- Identify the various machinery, equipment and linen and their care
- Describe the basic, psychological needs of patient

- Describe the principles and techniques for meeting basic, Physiological and psychosocial needs of patient
- Perform nursing assessment, plan implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient
- Meeting needs of patient
- Describe principles and techniques for infection control and biomedical waste management in Supervised Clinical settings
- Explain the principles, routes, effects of administration of medications
- Calculate conversions of drugs and dosages within and between systems of measurements
- Administer drugs by the following routes-oral, Intradermal, Subcutaneous, Intramuscular, Intra Venous topical inhalation
- Describe the pre and post operative care of patients
- Explain the process of wound healing
- Explain the principles and techniques of wound care
- Perform care of wounds
- Explain care of patients having alterations in body functioning
- Explain care of terminally ill patient
- Explain the basic concepts of conceptual and theoretical models of nursing

Content.

Unit 1

Hours: 10

Introduction

- Concept of Health: Health – illness continuum
- Factors influencing health
- Causes and risk factors for developing illness
- Body defences: Immunity and immunization
- Illness and illness behaviour:
- 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, Organisation and Functions
- Health Promotion and Levels of Disease Prevention
- Primary Health care and its delivery: Role of nurse

Unit 2

Hours: 16

Nursing as a profession

- Definition and Characteristics of a profession
- Nursing:
 - Definition, Concepts, philosophy, objectives
 - Characteristics, nature and scope of nursing practice
 - Functions of nurse
 - Qualities of a nurse
 - Categories of nursing personnel
 - Nursing as a profession
 - History of Nursing in India.
- Values: Definition, Types, Values Classification and values in professional Nursing: Caring & Advocacy
- Ethics:
 - Definition and Ethical Principles
 - Code of ethics and professional conduct for nurses.

Unit 3

Hours: 04

Hospital admission and discharge

- Admission to the hospital
 - Unit and its preparation-admission bed
 - Admission procedure

- Special considerations
- Medico-legal issues
- Roles and Responsibilities of the nurse
- Discharge from the hospital
 - Types: Planned discharge, LAMA and abscond, Referrals and transfers
 - Discharge Planning
 - Discharge procedure
 - Special consideration
 - Medico-legal issues
 - Roles and Responsibilities of the nurse
 - Care of the unit after discharge

Unit 4

Hours: 10

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 Relationship (NPR): Dimensions of Helping Relationships, Phase 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, Purposes, Process, role of nurse and Integrating teaching in Nursing Process.

Unit 5

Hours: 15

The Nursing Process

- i. Critical Thinking and Nursing Judgement

- a. Critical Thinking: Thinking and Learning
- b. Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
- ii. Nursing Process Overview: Application in Practice
 - a. Nursing process format: INC, current format
 - b. Assessment
 - * Collection of Data : Types, Sources, Methods
 - * Formulating Nursing Judgment: Data interpretation
 - c. Nursing Diagnosis
 - * Identification of client problems
 - * Nursing diagnosis statement
 - * Difference between medical and nursing diagnosis
 - d. Planning
 - * Establishing Priorities
 - * Establishing Goals and Expected Outcomes
 - * Selection of interventions : Protocols and standing Orders
 - * Writing the Nursing Care Plan
 - e. Implementation
 - * Implementing the plan of care
 - f. Evaluation
 - * Outcome of care
 - * Review and Modify
 - * Documentation and Reporting

Unit 6

Hours: 04

Documentation and Reporting

- i. Documentation: Purposes of Recording and reporting
- ii. Communication with in the Health Care Team,
- iii. Types of records; ward records, medical/nursing records.

- iv. Common Record-keeping forms, Computerized documentation
- v. Guidelines for Reporting: Factual Basis, Accuracy, Completeness, Currentness, Organization, confidentiality
- vi. Methods of Recording
- vii. Reporting: Change of shift reports: Transfer reports, incident reports
- viii. Minimizing legal Liability through effective record keeping

Unit 7

Hours: 15

Vital signs

- i. Guidelines for taking vital signs:
- ii. Body temperature:
 - a. Physiology, Regulation, Factors affecting body temperature,
 - b. Assessment of body temperature: sites, equipments and technique, special considerations
 - c. Temperature alterations: Hyperthermia, Heatstroke, Hypothermia
 - d. Hot and cold applications
- iii. Pulse:
 - a. Physiology & Regulation, Characteristics of the pulse, Factors affecting pulse
 - b. Assessment of the pulse: sites, location, equipments and technique, special considerations
 - c. Alterations in pulse:
- iv. Respiration
 - a. Physiology and Regulation, Mechanics of breathing Characteristics of the respiration, Factors affecting respiration
 - b. Assessment of respiration: Technique, special considerations
 - c. Alterations in respiration respiratory distress

v. Blood pressure :

- a. Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure
- b. Assessment of blood pressure: sites, equipments and technique, special considerations
- c. Alterations in blood pressure

vi. Recording of vital signs

Unit 8

Hours: 25

Health assessment

i. Purposes

ii. Process of Health assessment

a. Health History

b. Physical examination:

- * Methods-Inspection, Palpation, Percussion, Auscultation, Olfaction
- * Preparation for examination: patient and unit
- * General assessment
- * Assessment of each body system
- * Recording of health assessment

Unit 9

Hours: 05

Machinery, Equipment and linen

i. Types: Disposables and reusable- Linen, rubber goods, glass ware, metal, plastics, furniture, machinery

ii. Introduction

- a. Indent
- b. Maintenance
- c. Inventory

Meeting needs of patient

i. Basic needs (Activities of daily living)

a. Providing safe and clean environment:

- * Physical-environment: Temperature, Humidity, Noise, Ventilation, light, odour, pests control
- * Reduction of physical hazards: fire, accidents
- * Safety devices: Restraints, side rails, airways, trapeze etc.
- * Role of nurse in providing safe and clean environment.

b. Hygiene:-

- * Factors Influencing Hygienic Practice
- * Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears and Nose

c. Assessment, Principles, Types, Equipments, Procedure, Special Considerations

- * Patient environment: Room Equipment and linen, making patient beds

d. Types of beds and bed making

e. Comfort: -

- * Factors influencing Comfort
- * Comfort devices

ii. 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
- Oral
- Enteral: Naso/ Orogastric, gastrostomy o Parenteral:
- 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, types, equipments, procedures and special considerations
- Providing urinal/bed pan
- Condom drainage
- Perineal care
- Catheterization
- Care of urinary drainage
- Care of urinary diversions
- Bladder irrigation
- Bowel Elimination
 - * Review of Physiology of Bowel Elimination, Composition and characteristics of faeces
 - * Factors affecting Bowel elimination
 - * Alteration in Bowel Elimination
 - * Types and Collection of specimen of faeces: Observation

- * Facilitating bowel elimination: assessment, equipments, procedures and special considerations
- Passing of Flatus tube
- Enemas
- Suppository
- Sitz bath
- Bowel was
- Care of Ostomies
- Mobility and Immobility
 - * Principles of Body Mechanics
 - * Maintenance of normal body Alignment and mobility
 - * Factors affecting body Alignment and mobility
 - * Hazards associated with immobility
 - * Alteration In body Alignment and mobility
 - * Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects
- 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
- 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
 - * Alterations in Fluid, Electrolyte, and Acid — Base Balances
 - * Nursing interventions in Fluid, Electrolyte and Acid —Base Imbalances :assessment, types, equipment, procedure and special considerations
 - Measurement 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

iii. Psychosocial Needs

- Concepts of Cultural Diversity, Stress and Adaptation, Self-concept, Sexuality, Spiritual Health, coping with loss, death and grieving
- Assessment of psychosocial needs
- Nursing intervention for psychosocial needs
 - * Assist with coping and adaptation
 - * Creating therapeutic environment a Recreational and diversional therapies

Unit 11

Hours: 20

Infection control in Clinical settings

i. Infection control

- Nature of infection
- Chain of infection transmission
- Defenses against infection:

ii. Natural and acquired

- Hospital acquired infection (Nosocomial infection)

iii. Concept of asepsis: medical asepsis, and surgical asepsis

iv. 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

v. Biomedical waste management:

- Importance
- Types of hospital waste.
- Hazards associated with hospital waste
- Decontamination of hospital waste
- Segregation and Transportation and disposal

Unit 12

Hours: 40

Administration of Medications

i. General Principles/Considerations

- a. Purposes of Medication
 - b. Principles: 5 rights, Special Considerations, Prescriptions, Safety in Administering Medications and Medication Error
 - c. Drugs forms
 - d. Routes of administration
 - e. Storage and maintenance of drugs and Nurses responsibility
 - f. Broad classification of drugs
 - g. Therapeutic Effect, Side Effects, Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions,
 - h. Factors influencing drug Actions,
 - i. Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions.
 - j. Converting Measurements units: Conversions within one system, Conversion between systems, Dosage Calculation,
 - k. Terminologies and abbreviations used in prescriptions of medications
- ii. Oral Drugs Administration: Oral, Sublingual and Buccal : Equipment, procedure
- iii. Parenteral
- a. General principles: Decontamination and disposal of syringes and needles
 - b. Types of parenteral therapies
 - c. Types of syringes, needles, canula, and infusion sets
 - d. Protection from Needlestick Injuries: Giving Medications with a safety syringes
 - e. 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, intraplural, intra arterial-Role of nurse

iv. Topical Administration :purposes, site, equipment, procedure, special considerations for

a. Application to Skin

b. 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
- * Instillations:, Ear, Eye, Nasal, Bladder, and Rectal
- * Irrigations: Eye, Ear, Bladder, Vaginal and Rectal
- * Spraying: Nose and throat

v. Inhalation: Nasal, oral, endotracheal/tracheal (steam, oxygen and medications) - purposes, types, equipment, procedure, special considerations

a. Recording and reporting of medications administered

Unit 13

Hours: 10

Meeting needs of Perioperative patients

i. Definition and concept of Perioperative Nursing

ii. Preoperative Phase

a. Preparation of patient for surgery

iii. Intraoperative

a. Operation theatre Set up and environment

b. Role of nurse

iv. Postoperative Phase

a. Recovery unit

b. Post operative unit

c. Post operative care,

- v. Wounds: types, Classifications, wound Healing Process, Factors affecting Wound, Complications of Wound Healing
- vi. Surgical asepsis
- vii. Care of the wound: types, equipments, procedure and special consideration
 - a. Dressings, Suture Care,
 - b. Care of Drainage
 - c. Application of Bandages, Binders, Splints & Slings
 - d. Heat and Cold Therapy

Unit 14

Hours: 15

Meeting special needs of the patient

- i. Care of patients having alteration in
 - a. Sensorium(Unconsciousness);Assessment, Management
 - b. Functioning of sensory organs: (Visual & hearing impairment)
 - c. Assessment of Self-Care ability
 - d. Mobility (physically challenged, cast) assessment of Self-Care ability: Communication Methods and special considerations
 - e. Mental state (mentally challenged), assessment of Self-Care ability;
 - f. Comfort – (Pain) – Nature, Types, Factors influencing Pain, Coping, Assessment, Management;
- ii. Treatment related to gastrointestinal system : naso-gastric suction, gastric irrigation, gastric analysis.

Unit 15

Hours: 05

Care of Terminally ill patient

- i. Concepts of Loss, Grief, grieving Process
- ii. Signs of clinical death
- iii. Care of dying patient: special considerations
 - * Advance directives: Euthanasia, will, dying declaration, organ donation etc.
- iv. Medico-legal issues
- v. Care of dead body: equipment, procedure and care of unit
- vi. Autopsy a Embalming

Unit 16

Hours: 06

Professional Nursing concepts and practices

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

Unit 17

Hours: 10

First Aid and nursing in simple emergencies:

- Introduction to first-aid.
- Causes and effect of accidents, prevention.
- Principles and purposes of bandages, binders, triangular bandages, Eye, Ear, Hand, Leg, Jaw, Chest, Finger, abdomen and head.
- Wounds – injury to soft tissue.
- Shock Prevention and first aid.
- Fainting, Bleeding control, fractures, dislocations, sprains.
- Asphyxia, Artificial respiration, drowning, transportation of injured, poisoning, foreign bodies, insect and Animal bites, Heat strokes, Burns and its prevention, Lightning – Prevention, cardiopulmonary arrest – Resuscitation.
- Community Emergencies: Fire explosions, Floods, Earthquakes, Famine – Immediate and later role of nurse, need for rehabilitation, Community resources, police assistance, voluntary agencies – Local, National, International, Ambulance service, their function in relation to emergencies.

Teaching Learning Activities.

- Video film on the nurses interacting with the patient
- Practice session on patient teaching
- Practice on stimulators
- Lecture discussion
- Demonstration
- Lab Practice
- Supervised Clinical practice
- Visit to health care agencies
- Case discussion
- Role plays

Assessment methods.

- Essay type
- Short answers
- Objective type
- Assess skills with check list
- Clinical practical examination

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
1.	Kozier & Erbs	Fundamentals of Nursing	Pearson Education
2.	Taylor etal	Fundamentals of Nursing Vol. I&II	LWW
3.	Luckman & Sorensen	Basic Nursing and PsychoPhysiologic approach	W.B.Saunders
4.	T.N.A.I	History of Nursing in India s**, Nods	TNAI
FIRST AID			
1.	Gupta C & Gupta L.	First Aid Management of injuries & Minor Elements	Viva
2.	Shashank Parulekar	Bandages	Vora Publications
References			
1.	Potter & Perry	Basic Nursing, Essentials, for practice 5 ed.	LWW
2.	Furest & Wolf	Fundamentals of Nursing	J.B.Lippincott
3.	M-Nettina Sandra	Lippincott Manual of Nursing practice 8 th ed	LWW
4.	Dewit Susen C.	Fundamentals concepts and skills for Nursing 3rd	Elesweier
5.	Dorothy Elhert	Scientific Principles and Nursing	C.V.Mosby 1902

NURSING FOUNDATIONS-PRACTICAL

Placement: First Year

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

Course Description: This course is designed to help the students to develop 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.

Areas:

Demonstration Lab General Medical and surgery ward.

Time (hours):

200, 450 minimum practice time in clinical area

Objectives:

- Performs admission and discharge procedure
- Prepares nursing care plan as per the nursing process format
- Communicate effectively with patient, families and team members and
- Maintain effective human relations
- Develops plan for patient teaching
- Prepare patient reports
- Presents reports
- Monitor vital signs
- Perform health assessment of each body system
- Provide basic nursing care to patients
- Perform infection control procedures
- Provide care to pre and post operative patients
- Perform procedures for care of wounds

- Administer drugs
- Provide care to dying and dead
- Counsel and support relatives

Skills:

1. Hospital admission and discharge (III):

- Admission
- Prepare unit for new patient
- Prepare admission bed
- Performs admission procedure
 - a. new patient
 - b. Transfer in
- Prepare patients records

2. 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

3. Perform assessment:

- History taking, nursing diagnosis, problem list, prioritization, goals & expected outcomes, selection of interventions.
- Write nursing care plan
- Gives care as per the plan

4. Communication:

- Use verbal and non verbal communication techniques

5. Prepare a plan for patient teaching session:

6. Write patient report:

- Change-of shift reports, transfer reports, incident reports etc.
- Presents patient report

7. Vital signs:

- Measure, records and interpret all creations in body temperature, pulse respiration and blood pressure.

8. Health assessment:

- Health history taking
- Perform assessment:
 - a. General
 - b. Body systems
- Use various methods of physical examination
- Inspection, palpation, percussion, auscultation, olfaction.
- Identification of system wise deviations

9. Prepare patient's unit:

- Prepare beds
 - a. Open, closed, occupied, operation, amputation,
 - b. Cardiac, fracture, burn, divided, fowlers bed
- Pain assessment and provision for comfort

10. Use comfort devices Hygienic care:

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

11. Feeding:

- Oral, enteral, naso/orogastric, gastrostomy and parenteral feeding
- Naso-gastric insertion, suction, and irrigation

12. Assisting patient in urinary elimination:

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

13. Bladder irrigation Assisting bowel Elimination:

- Insertion of flatus tube
- Enemas
- Insertion of Suppository

14. Bowel wash Body Alignment and Mobility:

- a. Range of motion exercises
- b. Positioning: recumbent, lateral (rt/lt), fowler's, sims, Lithotomy, Prone, Trendelenburg position
- c. Assist patient in moving, lifting, transferring, walking
- d. Restraints

15. Oxygen administration

16. Suctioning: oropharyngeal, nasopharyngeal

17. Chest physiotherapy and postural drainage

18. CPR-Basic life support

19. Intravenous therapy

20. **Blood and blood component therapy**
21. **Collect/assist for collection of specimens for investigations Urine, sputum, faeces, vomitus, blood and other body fluids**
22. **Perform lab tests:**
 - a. Urine: sugar, albumin, acetone
 - b. Blood: sugar (with strip/gluco-meter)
23. **Hot and cold applications:**

Local and general Sitz bath
24. **Communicating and assisting with self-care of visually & hearing impaired patients**
25. **Communicating and assisting with self-care of mentally challenged/ disturbed patients Recreational and diversional therapies**
26. **Caring of patient with alteration in sensorium**
27. **Infection control:** Perform following procedures
 - a. Hand washing techniques
 - b. (Simple, hand antisepsis and surgical antisepsis scrub)
 - c. Prepare isolation unit in lab/ward
 - d. Practice technique of wearing and removing Personal protective equipment(PPE)
 - e. Practice standard safety precautions (Universal precautions)
28. **Decontamination of equipment and unit:**
 - Surgical asepsis:
 - a. Sterilization
 - b. Handling sterilized equipment

- c. Calculate strengths of lotions,
 - d. Prepare lotions
 - Care of articles
- 29. Pre and post operative care:**
- Skin preparations for surgery: local
 - Preparation of post operative unit
 - Pre and post operative teaching and counseling
 - Pre and post operative monitoring
 - Care of the wound:
 - Dressings, suture care, care of drainage, application of bandages, blinders, splints & slings
 - Bandaging of various body parts
- 30. Administration of medications:**
- Administer Medications in different forms and routes: oral, sublingual, 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
- 31. Care of dying patient:**
- Caring and packing of dead body
 - Counseling and supporting grieving relatives
 - Terminal care of the unit

Assignments:

- Practice in Unit / hospital / lab
- Write nursing process records of patient : simulated, actual
- Role plays in simulated situations on communication techniques
- Health talk
- Write nurses notes and present the patient report of assigned patients
- Measure vital signs of assigned patient
- Simulated exercise on CPR manikin
- Observation study
- Department of Infection control & CSSD :Visit to CSSD and write observation report
- Collection of samples for culture
- Do clinical posting in infection control department and write report

Assessment Methods:

- Completion of Practical / activity record
- Assess nursing process / health talk / skill / observation studies / all procedures / role plays with check list
- Assess clinical performance / communication techniques / other skills with rating scale

Anatomy

Placement- First Year

Time: Lecture/Lecture demonstration - 60 hours

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

Learning Objectives:

- Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands.
- Describe the structure & function of bones and joints
- Describe the structure & function of muscles
- Describe the structure & function of nervous system
- Explain the structure & functions of sensory organs
- Describe the structure & function of circulatory and lymphatic system
- Describe the structure & functions of respiratory system
- Describe the structure & functions of digestive system
- Describe the structure & functions of excretory system
- Describe the structure & function of endocrine system
- Describe the structure & function of reproductive system

Content:

UNIT - 1

Hours: 05

Introduction to Anatomical terms and organization of the human body

- Human cell structure
- Tissues – definition, types, characteristics, classification, location, functions and formation
- Membranes and glands – classification and structure
- Applications and implications in nursing

UNIT - 2

Hours: 06

The Skeletal System

- Bones- types, structure, axial & appendicular skeleton,
- Description of bones
- Joints – classification and structure
- Applications and implications in nursing

UNIT - 3

Hours: 07

The Muscular System

- Types and structure of muscles
- Muscle groups
- Applications and implications in nursing

UNIT - 4

Hours: 06

The Nervous System

- Structure of neurons
- Somatic nervous system
- Parts of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves
- Autonomic nervous system – sympathetic, parasympathetic
- Applications and implications in nursing

UNIT – 5

Hours: 06

The Sensory Organs

- Structure of skin, eye, ear, nose, tongue, (auditory and olfactory apparatus)
- Applications and implications in nursing

UNIT – 6

Hours: 07

Circulatory and lymphatic system:

- The Circulatory System
- Blood – Microscopic structure
- Morphology and structure of heart, blood vessels: arterial & venous system
- Circulation: systemic, pulmonary, coronary

- Lymphatic system: Lymphatic vessels, tissues and lymph: Thymus gland, lymph nodes, spleen, lymphatic nodules
- Applications and implications in nursing

UNIT – 7

Hours: 05

The Respiratory System

- Gross features of the organs of respiration
- Muscles of respiration: Intercostals and diaphragm
- Applications and implications in nursing

UNIT - 8

Hours: 06

The Digestive System

- Gross features of Alimentary tract and accessory organs of digestion
- Applications and implications in nursing

UNIT – 9

Hours: 04

The Excretory System

- Urinary System: Kidney, ureters, urinary bladder, urethra
- Structure of skin
- Applications and implications in nursing

UNIT – 10

Hours: 04

The Endocrine System

- Gross features and structure of pituitary, pancreas, thyroid, parathyroid, thymus and adrenal glands
- Applications and implications in nursing

UNIT – 11

Hours: 04

The Reproductive System: (including breast)

- Gross features of female reproductive organs
- Structure of male reproductive organs
- Gross features of mammary gland
- Applications and implications in nursing

Teaching Learning Activities:

- Lecture discussion
- Demonstration of charts, models, slides, skeleton, torso, bones, museum specimens and joints
- Demonstration of movements
- Record book

Assessment methods:

- Short answer questions, brief answer questions
- Objective type

BOOKS LIST

Sl.No	Prescribed Author	Title	Publisher
Anatomy & Physiology			
Prescribed Books			
1.	Toratora	Principles of Anatomy & Physiology	
2.	Ashalatha P.R.	Textbook of Anatomy & Physiology for Nurses	
References			
1.	Ross & Wilson	Anatomy & Physiology	Churchill Livingstone
2.	Kimber & Gray	Anatomy & Physiology	

Physiology

Placement - First Year

Time: Lecture / Lecture Demonstration - 60Hours

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

Learning Objectives:

- Describe the physiology of cell, tissues, membranes and glands.
- Describe the muscle movements and tone and demonstrate muscle contraction and tone
- Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves
- Demonstrate reflex action and stimulus
- Describe the physiology of blood and functions of Heart
- Demonstrate blood cell count, coagulation, grouping, Hb%, BP, BMR, spirometry and pulse monitoring
- Describe the physiology and mechanisms of respiration
- Describe the physiology of digestive system
- Describe the physiology of excretory system
- Describe the physiology of sensory organs
- Describe the physiology of endocrine glands
- Describe the physiology of male and female reproductive system

Content:

UNIT - 1

Hours: 04

Cell & general physiology:

- Microscopic structure of cell: functions of nucleus and organelles in the cell cytoplasm and their functions
- Meaning of milieu interior and homeostasis

- Definition of isotonic solution: effects of hypertonic and hypotonic solutions on cells, application of the knowledge in intravenous fluid transfusions.

UNIT – 2

Hours: 07

Blood, Body fluids and Immunity:

- Definition of intracellular and extra cellular fluids and extent. Distribution of extra cellular fluid.
- Value of normal blood volume and variations. Composition of blood. Blood pH. Explanation of terms “acidosis” and “alkalosis”.
- Meaning of Packed Cells Volume (PCV) or Hematocrit and plasma. Names and functions of blood cells. Classification, normal value and functions of plasma proteins.
- Formed elements of blood
 - a) Normal Values functions and fate of RBC. Hemoglobin, Method of determination of hemoglobin, normal values and functions. Definition and causes of anaemia.
 - b) Leucocytes – normal counts, types and functions. Inflammation.
 - c) Functions of platelets, their normal numbers, variations and effects.
- Outlines of blood coagulation. Difference between plasma, serum and anticoagulants
- Blood groups, basis, method of determination, types and uses of blood group determination and cross matching.
- Definition of antigen and antibodies. Function of antibodies.

LYMPH: components of lymphatic system. Function of lymphatic system and circulation of lymph.

UNIT - 3

Hours:10

Nervous system & Muscle Physiology

- Parts of neuron and their functions: mode of development of action potential and its conduction
- Description of synapse and its function
 - a. **Central nervous system:**
 - Brain, brainstem & spinal cord
 - Meningeal layers

- Functions of spinal cord (sensory and motor conduction and reflex function)
- Reflex arc
- Outline of pathways mediating touch, pressure, pain and temperature and their termination
- Outlines of the course of Cortico spinal tracts and their control of voluntary movements.
- Hemiplegia:- definition, cause and effects
- Sub divisions of brainstem and their functions
- Sub divisions of brain and functions of different lobes. (sensory and motor cortex, speech areas, visual, auditory areas etc.,) thalamus as relay station
- Location and functions of cerebellum and effects of disorders.
- Location and functions of basal ganglia and effects of disorders.
- Functions of hypothalamus
- Types of sleep
- Method of recording EEG and names of the waves
- Functions of limbic system
- Composition, circulation and functions CSF (Cerebro Spinal Fluid)
- ANS (Autonomic Nervous System) subdivisions and its functions.

b. Muscle Physiology

- Types of muscles in the body and their location
- Structure of skeletal muscle: mechanism of muscle contraction, muscle tone.
- Neuromuscular junction, transmission and blockers.
- Muscle fatigue: site and causes, Muscle tone.

UNIT – 4

Hours: 08

Cardiovascular System

- Gross structure of heart : chambers, valves and layers, outline of location and function of pacemaker and conduction system
- Normal heart rate and factors increasing and decreasing it.
- Outline of principal events in systole and diastole of atria and ventricles, arterial pulse, heart sounds and causation
- Normal cardiac output value
- Arterial blood pressure: definition, method of recording, normal values and variation
- Venous pulse and venous pressures, factors promoting venous return to heart, basic features of coronary blood flow and their applied significance

UNIT – 5

Hours: 06

Respiratory System

- Subdivisions of respiratory passages and the type of lining cells and functions, inspiratory muscles and nerve supply, mechanism of respiration an outline
- Spirometry – definition of tidal volume and vital capacity, normal values, signficance of vital capacity
- Location of respiratory centers in brain, outline of neural regulation
- Location of chemoreceptors and chemical regulation of respiration
- Fundamentals of oxygen and carbon dioxide transport in blood
- Definition of cyanosis and causes
- Dyspnoea, definition of hypoxia and hypercapnia, causes and effects

UNIT - 6

Hours: 06

Digestive System

- Components of digestive system, functions of saliva, name of components, and their functions

- Gastric juice: composition and functions
- Nature of components and functions of pancreatic juice
- Bile – site of formation – storage and composition and functions of bile
- Movements of small intestine

UNIT – 7

Hours: 06

Excretory System (Renal System, Skin & Temperature Regulation)

- Gross structure of kidney: structure of nephron, functions of kidney, definition and value of GFR.
- Substances absorbed and secreted from renal tubules
- Urinary bladder and micturition: normal volume of urine and its composition, abnormal constituents, important tests to assess renal function
- Structure and functions of skin

UNIT – 8

Hours: 05

Special senses:

Vision:

- Gross structure of eye ball
- Refractory media of the eye, intra ocular fluids and intra ocular pressure
- Mode of image formation on retina
- Visual receptors in retina and their functions
- Visual pathway: visual reflexes (pupillary reflexes)
- Visual acuity, errors of refraction and their correction
- Colour vision and colour blindness

Ear:

- Gross structure of external, middle and inner ear
- Structure and function of cochlea
- Organ of corti
- Types of deafness and tests to detect deafness
- Components and functions of vestibular apparatus

Taste & smell:

- Types of taste and taste buds
- Structure of taste buds, taste pathways
- Smell : Olfactory pathways

UNIT - 9

Hours: 08

Endocrine System & Reproductive System

Endocrine System:

- Names and location of various endocrine glands
- Hormones of pituitary gland: effects of growth hormone, prolactin and trophic hormones – a brief account. Gigantism, acromegaly and pituitary dwarfism. Source and functions of Oxytocin and ADH, Diabetes insipidus. Outline of hypothalamic regulation of pituitary gland
- Thyroid glands, hormones secreted and their function and the effects of excess secretion and deficiency. Cretinism and its prevention
- Parathyroid glands – actions of parathyroid hormones, bone formation and resorption and the cellular elements in the bone and matrix. Role of vitamin D on calcium balance. Rickets, osteomalacia and osteoporosis. Effects of deficiency of parathyroid hormone – tetany
- Endocrine part of pancreas: names of hormones released. Actions of insulin in the body and effects of its deficiency. Diabetes mellitus – types and symptoms Actions of Glucagon. Effects of Hypoglycemia.
- The adrenal glands – hormones of adrenal cortex and their principal effects. Disease states – Cushings syndrome & Addisons syndrome. Hormones of adrenal medulla. Principal effects of adrenaline and noradrenaline.

Reproductive System:

- Primary and secondary organs of reproduction
- Outlines of structure of ovary and testis
- Hormones secreted by them and their actions, puberty
- Gametogenic function of gonads
- Outline of menstrual cycle, menarche and menopause
- Functions of corpus luteum
- Time of ovulation and methods of determination
- Functions of placenta, hormones of placenta
- Pregnancy diagnostic tests
- Contraceptive methods in males and females – temporary as well as permanent

Teaching and Learning Activities:

- Lecture demonstration
- Demonstration of charts, models, movements, nerve stimulation, reflexes
- Demonstration of blood cell counts, BT, CT, grouping, Hb% estimation
- Measurement of pulse, BP, RR
- Demonstration of BMR

Assessment methods:

- Short answer questions, brief answer questions
- Objective type

BOOKS LIST

Sl.No	Prescribed Author	Title	Publisher
Anatomy & Physiology			
Prescribed Books			
1.	Toratora	Principles of Anatomy & Physiology	
2.	Ashalatha P.R.	Textbook of Anatomy & Physiology for Nurses	
References			
1.	Ross & Wilson	Anatomy & Physiology	Churchill Livingstone
2.	Kimber & Gray	Anatomy & Physiology	

Biochemistry

Placement - First Year

Time: Lecture / Lecture Demonstration - 30Hours

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

Learning Objectives:

- Cell and functions of cell organelles
- Structure and functions of cell membrane
- Water and electrolyte balance
- Metabolism of carbohydrates
- Metabolism of Lipids
- Metabolism of Proteins and amino acids
- Enzymes, vitamins, minerals
- Nucleotides
- Immunoglobulins
- Free radicals, antioxidants, detoxification
- Starvation, obesity
- Functional tests of Liver, Kidney, Thyroid
- Collection, storage and transport of clinical samples: anticoagulants
- Urine : normal, abnormal
Tests for sugar, protein, bile salts, bile pigments, ketone bodies and blood

Content:

UNIT - 1

Hours: 01

Introduction:

Structure of cell, functions of cell organelles

UNIT - 2

Hours: 03

Structure and functions of Cell membrane:

Transport of solutes and ions across cell membrane

Diffusion, Osmosis,

Active transport

Sodium pump

UNIT - 3

Hours: 02

Water and electrolyte balance:Maintenance of acid – base balance – P^H buffers**UNIT – 4**

Hours: 06

Metabolism of Carbohydrates:

- Classification, chemistry, physiological and clinical importance
- Mucopolysaccharides
- Regulation of blood glucose level
- Diabetes mellitus
- Self monitoring of blood glucose
- Digestion and absorption of carbohydrates

UNIT - 5

Hours: 04

Metabolism of Lipids:

- Classification, functions & chemistry of lipids
(Triacylglycerol, fattyacids, phospholipids)
- Chemistry, functions and uses of prostaglandins
- Cholesterol (substances derived from cholesterol (steroid hormones, Vitamin.D & bile salts))
- Lipoproteins – types, functions
- Atherosclerosis
- Normal levels of TAG, Lipoproteins & total cholesterol
- Digestion and absorption of lipids

UNIT - 6

Hours: 04

Metabolism of Proteins & Amino acids:

- Classification of amino acids
- Classification & function of proteins
- Structure of proteins
- Important substances derived from amino acids
- Formation & transport of ammonia
- Urea synthesis
- Structure and functions of hemoglobin
- Abnormal hemoglobins
- Collagen, Elastin, Keratin, Myosin and Lens protein.
- Digestion and absorption of protein

UNIT - 7

Hours: 02

Enzymes

- Classification
- Properties and functions
- Types of enzyme inhibition
- Iso enzymes

UNIT – 8

Hours: 02

Composition of Vitamins and minerals:

- Classification, chemistry, dietary sources, RDA, functions & deficiency disorders of all vitamins
- Classification, function, dietary sources, daily requirement & deficiency disorders of all minerals

UNIT - 9

Hours: 01

Chemistry of nucleotides: DNA, RNA – nucleic acids

UNIT - 10

Hours: 01

Immunoglobulins: Types, chemistry & functions
Immune response

- UNIT - 11** Hours: 01
Free radicals & Antioxidants, Detoxification
- UNIT - 12** Hours: 01
Starvation, Obesity
- UNIT - 13** Hours: 01
Functional tests – Liver, kidney, thyroid
- UNIT - 14** Hours: 01
Urine: normal, abnormal
- Tests for sugar, protein, bile salts, bile pigments, ketone bodies and blood

Teaching and Learning activities:

- Lecture / Lecture discussion using charts, slides
- Demonstration of laboratory tests

Assessment methods:

- Short answer questions, brief answer questions
- Objective type

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
Bio-chemistry: (Prescribed)			
1.	M.N.Chatterjea & Rana Schinde	Medical Biochemistry	
References			
1.	Martin D.W.	Harper's Review of Biochemistry	
2.	U.Satyanarayana	Essentials of Biochemistry	

Nutrition

Theory : 40hrs
Practical :20hrs
Total :60hrs

Placement - First Year

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

Learning Objectives:

- Describe the relationship between nutrition & health
- Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates, Fats, Proteins, Vitamins, Minerals
- Describe the sources, functions and requirements of Water & electrolytes
- Describe the cookery rules and preservation of nutrients
- Prepare and serve simple beverages and different types of foods
- Describe and plan balanced diet for different categories of people
- Describe various national programmes related to nutrition
- Describe the role of nurse in assessment of nutritional status and nutrition education

Content:

UNIT – 1

Hours: 04 (T)

Introduction

- Nutrition: History, concepts
- Role of nutrition in maintaining health
- Nutritional problems in India
- National nutritional policy
- Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, lifestyle and food habits etc
- Role of food and its medicinal value

- Classification of foods
- Food standards
- Elements of nutrition: macro and micro
- Calorie, BMR

UNIT – 2

Hours: 02 (T)

Carbohydrates:

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

UNIT – 3

Hours: 02 (T)

Fats:

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

UNIT – 4

Hours: 02 (T)

Proteins:

- Classification
- Caloric value
- Recommended daily allowances

- Dietary sources
- Functions
- Digestion, absorption, metabolism and storage
- Malnutrition: deficiencies and over consumption

UNIT – 5

Hours: 03 (T)

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 – 6

Hours: 04 (T)

Vitamins:

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

UNIT – 7

Hours: 04 (T)

Minerals:

- Classification
- Recommended daily allowances
- Dietary sources

- Functions
- Absorption, synthesis, metabolism storage and excretion
- Deficiencies
- Over consumption and toxicity

UNIT – 8

Hours: 03 (T)

Water & electrolytes:

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

UNIT – 9

Hours: 05 (T), 15 (P)

Cookery rules and preservation of nutrients:

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

UNIT – 10

Hours: 07 (T), 05 (P)

Balanced diet:

- Elements
- Food groups
- Recommended daily allowances

- Nutritive value of foods
- Calculation of balanced diet for different categories of people
- Planning menu
- Budgeting of food
- Instruction to therapeutic diets: Naturopathy – diet

UNIT – 11

Hours: 04 (T)

Role of nurse in nutritional programmes:

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

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Explaining using charts
- Panel discussion
- Exercise
- Practice session
- Meal planning
- Explaining with Slide/Film shows

Assessment methods:

- Short answers
- Objective type
- Assessment of practice sessions
- Exercise on menu planning

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
NUTRITION: (Prescribed)			
1.	B.Srilaxmi	Text book of Nutrition for B.Sc.(N)	New age International Publishers
References			
1.	Swaminathan	Essentials of Food and Nutrition	The Bangalore printing & publishing
2.	Robinson & Proudfit	Normal & Therapeutic Nutrition	Macmillan Company
3.	Antia F.P.& Philip Abraham	Clinical dietetics & Nutrition	
4.	Shukla	Nutritional problems in India	
5.	Carol West suitor & crowdy	Nutrition Principles and application in health promotion	J.B.Lippincott

MICROBIOLOGY

Placement: First Year

Time: 60 hours (Theory 45 +15 lab)

Course Description:

This course is designed to enable students to acquire understanding of fundamentals of microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Learning Objectives:

- Explain concepts and principles of microbiology and their importance in nursing
- Describe structure, classification morphology and growth of bacteria
- Identify micro-organisms
- Describe the methods of infection control
- Identify the role of nurse in hospital infection control programme
- Describe the different disease producing organisms
- Explain the concept of immunity, hyper sensitivity and immunization

Content:

UNIT – 1

Hours: 02 (T)

Introduction:

- Importance of Microbiology:- Relevance to Nursing
- Historical Perspective
- Principles, Concepts, Terminology and Scope

UNIT – 2

Hours: 05 (T)

General Characteristics of Bacteria:

- Structure and classification of Bacteria
- Demonstration of bacteria: microscopy and staining
- Bacterial Cell: size and form, parts of bacterial cell

- Growth and nutrition of bacteria
- Culture media
- Laboratory methods of identification of bacteria
- Antibiotic sensitivity testing : Diffusion and dilution tests in brief
- Bacterial colonisation on various parts of the body
- Collection and transport of clinical samples to laboratory

UNIT – 3

Hours: 10 (T)

Infection Control:

- Infection: definition, types, sources, modes of transmission, types of infectious diseases
- Asepsis and Disinfection: various chemical disinfectants used in hospitals, fumigation.
- Sterilization methods practised in hospitals
- Chemotherapy and Antibiotics: mode of action, choice of an antibiotic for treatment, empiric therapy, drug resistance, antibiotic prophylaxis
- Standard biosafety measures
- Hospital Waste Management: sources, classification of health care waste (Biomedical waste), health hazards from biowaste, management of biowaste.
- Role of Nurse in Infection Control
- Hospital Acquired Infection, modes of spread, types and predisposing factors, investigation and surveillance.

UNIT – 4

Hours: 08 (T)

Immunity:

- Immunology : Definitions and Terms
- Immunity: Innate immunity, acquired immunity
- Antigen - Antibody Reactions: precipitation, agglutination, ELISA
- Hypersensitivity: Type I, II, III, IV hypersensitivity reactions, Mantoux test (Tuberculin test)

- Immunoprophylaxis: vaccines, sera, storage and handling and hazards of immunisation

UNIT – 5

Hours: 07 (T)

Pathogenic Bacteria: Pathogenicity, laboratory diagnosis and prophylaxis

- Introduction
- Gram Positive Cocci: Staphylococci, Streptococci, Pneumo
- Gram Negative Cocci: Meningococci, gonococci
- Gram Positive bacilli: *Corynebacterium diphtheriae*, *Clostridium tetani*, *Clostridium perfringens*, *Clostridium botulinum*, *Bacillus anthracis*, *Bacillus cereus*
- Gram Negative bacilli:
 - Group I: Intestinal Gram Negative Bacilli: *E.coli*, *Klebsiella*, *Proteus*, *Salmonella*, *Shigella*.
 - Group II: Non Intestinal Gram Negative Bacilli: *Bordetella*, *Haemophilus*.
 - Group III: Gram Negative curved bacilli (*Vibrio cholerae*)
- Acid Fast bacilli: *Mycobacterium tuberculosis*, *Mycobacterium leprae*
- Spiral Bacteria (Spirochaetes): *Treponema pallidum*, *Borrelia recurrentis*, *Borrelia vincentii*, *Leptospira icterohemorrhagica*
- Rickettsiae
- Chlamydiae
- Mycoplasma

UNIT – 6

Hours: 05 (T)

Pathogenic Viruses: Pathogenicity, laboratory diagnosis and prophylaxis

- General Properties of Viruses: Structure, resistance of virus, viral multiplication, virus cultivation, taxonomic classification of viruses, interferons, inclusion bodies, antiviral agents.
- Specimen collection and transport for viral diseases

- RNA Viruses: poliomyelitis virus, influenza virus, mumps virus, rubella virus, rabies virus, japanese encephalitis virus, dengue virus, KFD virus, chikungunya virus
- DNA Viruses: Variola, Molluscum contagiosum, varicella zoster virus (vzv), Epstein-Barr virus, adenoviruses, papilloma virus
- Viral Hepatitis: Hepatitis viruses A, B, C, D, E.
- Rota Virus
- Sars Virus
- Human Immuno Deficiency Virus (HIV)

UNIT – 7

Hours: 03 (T)

Pathogenic Fungi: Pathogenicity, clinical picture, laboratory diagnosis, prevention.

- Introduction: Pathogenic and opportunistic fungi, classification, antifungal agents
- Superficial mycoses: piedra, tinea versicolor, tinea nigra
- Cutaneous mycoses: dermatophytosis, candidiasis
- Subcutaneous mycoses: mycetoma, rhinosporidiosis
- Systemic mycoses: histoplasmosis, cryptococcosis, rhino orbito cerebral phycomycosis
- Opportunistic mycoses: otomycosis, oculomycosis, pulmonary aspergillosis
- mycetism and mycotoxicosis

UNIT – 8

Hours: 04 (T)

Parasites: mode of infection, Pathogenicity, clinical picture, laboratory diagnosis

- Protozoal infections: amoebiasis, trichomoniasis, trypanosomiasis, leishmaniasis, malaria, toxoplasmosis, pneumocystis jirovecii, cryptosporidium parvum.
- Nematode infections: ascaris lumbricoides, ancylostoma duodenale, enterobius vermicularis, trichuris trichiura, strongyloides stercoralis, wuchereria bancrofti, dracunculus medinensis
- Cestode infections: taenia saginata and taenia solium, diphyllbothrium latum.

- Trematode infections: schistosoma hematobium, fasciola hepatica, fasciolopsis buskii, clonorchis sinensis, paragonimus westermanii.

UNIT – 9

Hours: 01 (T)

Rodents and Vectors

UNIT – 10

Hours: 15 (P)

Demonstration of Practical Procedures in Microbiology:

- Microscopy: types, parts, uses of microscope
- Hanging Drop Preparation: procedure
- Simple Staining: procedure
- Gram's Staining: procedure, composition of Stains
- Ziehl Neelsen's staining (Acid fast staining): procedure, composition of Stains
- Albert's staining: procedure, composition of stains
- Widal test
- VDRL test
- Culture and sensitivity test

Teaching and Learning Activities:

- Lecture discussion/demonstration
- Visits to CSSD
- Clinical practice

Assessment methods:

- Short answers
- Objective type

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
Microbiology (Prescribed)			
1.	Dr.M.V.Ramanamma	Textbook of Microbiology	Frontline Publications
Reference			
1.	Ananathanarayana	Textbook of Microbiology	
2.	Baveja	Textbook of Microbiology	
3.	Simmons N.H.	An Introduction to Microbiology for Nurses	William Heinman 1980

Psychology

Placement - First Year

Time: Lecture - 60Hours

Course Description: This course is designed to assist the students to acquire knowledge of fundamentals of psychology and develop an insight into behaviour 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.

Learning Objectives:

- Describe the history, scope and methods of psychology
- Explain the biology of human behaviour
- Describe various cognitive processes and their applications
- Describe motivation, emotions, stress, attitudes and their influence on behaviour
- Explain the concepts of personality and its influence on behaviour
- Describe the psychology of people during the lifecycle
- Describe the characteristics of mentally healthy person
- Explain ego defence mechanisms
- Explain the psychological assessments and role of nurse

Content:

UNIT – 1

Hours: 02

Introduction:

- History and origin of science of psychology
- Definition & scope of psychology
- Relevance to nursing
- Methods of psychology

UNIT – 2

Hours: 04

Biology of behaviour:

- Body mind relationship modulation process in health and illness

- Genetics and behaviour: heredity and environment
- Brain and behaviour: nervous system, neurons and synapse
- Association cortex, Rt and Lt hemispheres
- Psychology of sensations
- Muscular and glandular controls of behaviour
- Nature of behaviour of an organism/integrated responses

UNIT – 3

Hours: 20

Cognitive processes:

- Attention: types, determinants, duration, & degree, alterations
- 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
- Alterations in cognitive processes
- Applications

UNIT – 4

Hours: 08

Motivation and emotional processes:

- Motivation: meaning, concepts, types, theories, motives and behaviour, conflicts and frustration, conflict resolution
- Emotions & 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 affecting
 - Behaviour and attitudes
 - Attitudinal change
- Psychometric assessments of emotions and attitudes
- Alterations in emotions
- Applications

UNIT – 5

Hours: 07

Personality:

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

UNIT – 6

Hours: 07

Developmental psychology:

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

UNIT – 7

Hours: 08

Mental hygiene and mental health:

- Concepts of mental hygiene 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 adjustments
- Guidance and counseling
- Role of nurse

UNIT – 8

Hours: 04

Psychological assessments & tests:

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

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Psychometric assessment
- Role plays
- Case discussion
- Practice session

Assessment methods:

- Essay type
- Short answers
- Assessment of practice

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
Psychology Prescribed Books			
1.	Bhatia & Craig	Elements of Psychology and Mental Hygiene for Nurses in India	Orient Longman
References			
1.	Cruese	Psychology in Nursing	
2.	Jain D.Pal	Abnormal Psychology	
3.	Crow & Crow	Psychology in Nursing Practice	
4.	Averill & Kempf	Psychology applied to nursing	
5.	Zwerner	Psychology for Nurses	

English

Placement - First Year

Time – 60 Hours

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

Learning Objectives:

- Speak and write grammatically correct English
- Develop ability to read, understand and express meaningfully, the prescribed text
- Develop writing skills
- Develop skill in spoken English
- Develop skill in listening comprehension

Content:

UNIT - 1

Hours: 10

- Review of grammar
- Remedial study of grammar
- Building vocabulary
- Phonetics
- Public speaking

UNIT - 2

Hours: 30

- Read and comprehend prescribed course books

UNIT - 3

Hours: 10

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

UNIT - 4

Hours: 06

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

UNIT - 5

Hours: 04

- Listening comprehension
- Media, audio, video, speeches etc.

Teaching and learning activities:

- Demonstrate use of dictionary
- Class-room conversation, telephonic conversation
- Exercise on reading, summarizing, comprehension, use of grammar
- Practice in public speaking

- Exercise on writing: Letter writing, Nurses notes, Precis , Diary, Anecdote, Health problems, Story writing, Resume/CV
- Debating
- Listening to audio, video tapes and identify the key points
- Essay writing: discussion on written reports/documents
- Participating in seminar, panel, symposium

Assessment methods:

- Short answers
- Essay types
- Objective type
- Fill in the blanks
- Para phrasing
- Assessment of the skills based on the checklist

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
English (Prescribed)			
1.	Angela & R.S.Caroline	English for B.Sc. Nursing	Frontline Publications
Reference			
1.	Dr.T.Vasudeva Reddy	"A Grammar of English"	
2.	Koorkkalaka Tom	"Communicative English for Nursing students"	K.J.Publications, Kerala
3.	Sindhu Tilak	Better English for Nurses	Vora Medical Publications

Introduction to Computers

Placement - First Year

Time: Lecture / Lecture Demonstration - 45Hours
(Theory - 15 hours, Practical - 30 hours)

Course Description: The Course is designed for students to develop basic understanding of uses of computer and its applications in nursing.

Learning Objectives:

- Identify and define various concepts used in computer.
- Identify application of computer in nursing
- Describe and use the desk operating system
- Demonstrate skill in the use of MS-Office, multimedia.
- Identify features of computer aided teaching and testing
- Demonstrate use of internet and email
- Describe and use the statistical packages
- Describe the use of hospital management system

Content:

UNIT – 1

Hours: 03 (T)

Introduction:

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

UNIT – 2

Hours: 06 (T), 20 (P)

Introduction to disk-operating system:

- DOS, windows (all version)

- Introduction: MS-Word, MS-Excel with pictorial presentation, MS-PowerPoint, MS-Access

UNIT – 3 Hours: 02 (T), 03 (P)

Multimedia; types & uses: Computer aided teaching & testing

UNIT – 4 Hours: 01 (T), 03 (P)

Use of Internet and E-mail

UNIT – 5 Hours: 02 (T), 02 (P)

Statistical packages: Types and their features

UNIT – 6 Hours: 01 (T), 02 (P)

Hospital management system: Types and uses

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Practice session

Assessment methods:

- Short answers
- Objective type
- Practical exam and Viva voice

BOOKS LIST

SI. No.	Prescribed Author	Title	Publisher
Computers (Prescribed)			
1.	Nagendra Reddy	Computer Education for B.Sc.Nursing	Frontline
Reference			
1.	Kusum Samant	Basic Computer Training for Nurses	Vora Medicals
2.	Suhail Ahmed, Khazi Mohammed & Shahija Khan	Computer Education for Nurses	Frontline Publications

B.Sc. NURSING 4YDC COURSE

Second Year Syllabus:

- 1. Medical Surgical Nursing
(Adult including Geriatrics)-I & Practical**
- 2. Pharmacology**
- 3. Pathology**
- 4. Genetics**
- 5. Sociology**
- 6. Community Health Nursing-1 & Practical**
- 7. Communication & Educational Technology**

MEDICAL SURGICAL NURSING (Adult Including Geriatrics)-I

Placement: Second Year

Time: Lecture/Lecture demonstration - 210 hours

Practical - 720 hours

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

Learning Objectives:

- Appreciate the trends in medical and surgical nursing
- Describe the role of a nurse in caring for adult patient in hospital and community
- Describe the concepts of medical surgical asepsis
- Describe the common signs, symptoms, problems and their specific nursing interventions
- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures, and management of patients (adults including elderly) with disorders of respiratory systems, digestive systems, genito-urinary system, male reproductive system, endocrine system, integumentary system, musculoskeletal system, immunological system & communicable diseases
- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures, and management of patients (adults including elderly) with blood and cardio vascular problems
- Describe the vascular conditions and its nursing management
- Describe the organization and physical set up of operation theatre
- Identify the various instruments and equipments used for common surgical procedures
- Describe the infection control measures in the operation theatre
- Describe the role of the nurse in the peri operative nursing care

Content:

UNIT – 1

Hours: 15

Introduction:

- Introduction to medical surgical nursing- evolution and trends of medical and surgical nursing
- Review of concepts of health and illness disease-concepts, causations, classification, -international classification diseases (ICD- 10 or later version), acute illness, chronic illness & terminal illness, stages of illness
- Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process
- Role of nurse, patient and family in care of adult patient
- Role and responsibilities of a nurse in medical surgical settings: Outpatient department, in-patient unit, intensive care unit, home and community settings
- Introduction to medical surgical asepsis: inflammation and infection, immunity, wound healing
- Care of surgical patient: pre operative, intra operative, post operative

UNIT – 2

Hours: 15

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

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
 - Empyema
 - Atelectasis
 - Chronic Obstructive Pulmonary Diseases (COPD)
 - Bronchiectasis
 - Pneumonia
 - Pulmonary tuberculosis
 - Lung abscess
 - Pleural effusion
 - Cysts and tumours
 - Chest injuries
 - Respiratory arrest and insufficiency
 - Pulmonary embolism: special therapies, alternative therapies
- procedures
- Drugs used in treatment of respiratory disorders

Nursing management of patient (adults including elderly) with disorders of digestive system:

- Review of anatomy and physiology of digestive system
- Nursing assessment-history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management
- Disorders of
 - Oral cavity- lips, gums, tongue, salivary glands and teeth
 - Oesophagus –inflammation, structure, obstruction, bleeding and tumours.
 - Stomach and duodenum- hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis.
 - Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, tumours and perforation.
 - Large intestinal disorders- colitis, inflammation and infection, obstruction tumours and lump.
 - Hernias
 - Appendix- inflammation, mass, abscess, rupture.
 - Anus & rectum; hemorrhoids, fissures, fistulas.
 - Peritonitis/acute abdomen
 - Pancreas: inflammation, cyst, abscess and tumours
 - Liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours
 - Gall bladder: inflammation, obstruction, stones and tumours
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of digestive system

Nursing management of patient (adults including elderly) with blood and cardio vascular problems:

- Review of anatomy and physiology of blood and cardio vascular system
- Nursing assessment - history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of vascular system: Hypertension, hypotension, atherosclerosis, Raynaud's disease, Aneurysm and peripheral vascular disorders

- **Heart:**
- Coronary artery diseases: Ischemic heart disease, coronary atherosclerosis, angina pectoris, myocardial infarction
- Valvular disorders of the heart: congenital and acquired, rheumatic heart diseases
- Endocarditis, pericarditis, myocarditis
- Cardio myopathies
- Cardiac dysrhythmias, heart block
- Congestive cardiac failure: Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade
- Cardiac emergencies and arrest
- Cardio Pulmonary Resuscitation (CPR)
- Blood: anaemias, polycythemia, bleeding disorders: clotting factor defects and platelets defects, thalassemia, leukaemias, leukopenias and agranulocytosis
lymphomas, myelomas
- Special therapies
- Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion

- Management and counseling of blood donors: Phlebotomy procedure, post donation management , blood bank functioning and hospital transfusion committee, bio safety and waste management in relation to blood transfusion
- Role of nurse in organ donation, retrieval and banking
- Alternative therapies
- Nursing procedures
- Drugs used in treatment of blood and cardio vascular disorders

UNIT – 6

Hours: 10

Nursing management of patient (adults including elderly) with genito urinary problems:

- Review of anatomy and physiology of genito urinary system
- Nursing assessment - history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of –
 - Nephritis
 - Nephrotic syndrome
 - Nephrosis
 - Renal calculus
 - Tumours
 - Acute renal failure
 - Chronic renal failure
 - End stage renal disease
 - Dialysis, renal transplant
 - Congenital disorders, urinary infections
- Disorders of ureter, urinary bladder, and urethra- inflammation, infection, structure, obstruction, tumour.
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of genito urinary disorders

UNIT – 7

Hours: 05

Nursing management of disorders of male (adults including elderly) reproductive system:

- Review of anatomy and physiology of male reproductive system
- Nursing assessment - history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system
- Congenital malformations: cryptorchidism
- Hypospadias, Epispadias
- Infections
- Testis and adjacent structures
- Penis
- Prostate: inflammation, infection, hypertrophy, tumour
- Sexual dysfunction
- Infertility
- Contraception
- Breast: gynecomastia, tumour
- Climacteric changes
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of male reproductive system

UNIT – 8

Hours: 10

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
 - Diabetes insipidus
 - Adrenal tumours
 - Pituitary disorders
- Special therapies, alternative therapies
 - Nursing procedures
 - Drugs used in treatment of disorders of endocrine system

UNIT – 9

Hours: 10

Nursing management of patient (adults including elderly) with disorders of Integumentary system:

- Review of anatomy and physiology of skin and its appendages
- Nursing assessment - history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages – a lesions and abrasions
 - Infections and infestations
 - Dermatitis
 - Dermatoses: infectious and non infectious
 - Inflammatory dermatoses
 - Acne vulgaris
 - Allergies and eczema
 - Psoriasis
 - Malignant melanoma
 - Alopecia
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of Integumentary system

UNIT – 10

Hours: 15

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

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

UNIT – 11

Hours: 10

Nursing management of patient (adults including elderly) with Immunological problems:

- Review of Immune system
- Nursing assessment - history and physical assessment

- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of
 - Immunodeficiency disorder
 - Primary immuno deficiency
 - Phagocytic dysfunction
 - B-cell and T-cell deficiencies
 - Secondary immunodeficiencies
- Acquired immunodeficiency syndrome (AIDS): incidence, epidemiology, Transmission, standard safety precautions, role of nurse in counseling, health education, home care, NACO, other national and international agencies for AIDS.
- Infection control program
- Rehabilitation
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of disorders of immunological system

UNIT – 12

Hours: 20

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

- Overview of infectious disease, the infectious process
- Nursing assessment - history and physical assessment
- Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietetics control and eradication of common communicable diseases: tuberculosis, diarrhoeal diseases, hepatitis A – E, herpes, chickenpox, smallpox, typhoid, meningitis, gas gangrene, leprosy, dengue, plague, malaria, diphtheria, pertussis, poliomyelitis, measles, mumps, influenza, tetanus, yellow fever, filariasis, HIV, AIDS
- Reproductive tract infections
- Special infection control measures: notification, isolation, quarantine, immunization, infectious disease hospitals
- Special therapies, alternative therapies

- Nursing procedures
- Drugs used in treatment of communicable diseases

UNIT – 13

Hours: 20

Peri operative nursing:

- Organisation and physical set up of the operation theatre(OT): classifications, O.T. design, staffing, members of the OT team, duties and responsibilities of nurse in O.T., principles of health and 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, Monitoring the patient during surgical procedures
- Maintenance of therapeutic environment in O.T.
- Standard safety measures
 - Infection control: fumigation, disinfection and sterilisation
 - Biomedical waste management
 - Prevention of accidents and hazards in O.T
- Anaesthesia: Types, methods of administration, effects and stages, equipments, drugs
- Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques
- Legal aspects

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Practice session
- Supervised clinical practice
- Seminar
- Case discussion
- Explain using charts, graphs, models, films, slides
- Health education
- Drug book presentation

- Visit to blood bank
- Participation in blood donation camps
- Counseling
- Orientation visit to hospital control system

Assessment Methods:

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

BOOKS LIST

Sl.No	Prescribed Author	Title	Publisher
B.Sc. Nursing 2nd Year 4YDC			
MEDICAL SURGICAL NURSING: PRESCRIBED BOOKS			
1.	Joyce H.Black & Hawks	Luckman & Sorensen's Medical surgical Nursing 8 th ed	W.B.Saunders
2.	Smeltzer	Brunner & Suddartha's text book of Medical surgical Nursing	Lippincott
Reference Books			
1.	Monahan etal.,	Phipp's Medical surgical Nursing health and illness perspectives 8 th ed Mosby	
2.	Brunner & Suddarth's	Lippincott Manual of Nursing Practice	Mosby
3.	Lewis	Medical surgical Nursing Elsevier	
4.	Berry & Khan's	Operating Room Technique	Mosby
5.	Nanjunde S.N.Gowda & Jyothi N.Gowda	Perioperative Nursing Manual	J.N.Publication
6.	Bojar, Robert M	Manual of Perioperative care in Cardiac Surgery	Blackwell
7.	Moher etal	Orthopedic Nursing	Sanders
8.	Ebenizer	Textbook of Orthopedics	Jaypee Brothers
9.	Mohd.Maqbool	Textbook of Ear, Nose & Throat	
10.	Geetha Mary	Basic Notes on ENT	
11.	Likhacher A.G.	"Diseases of Ear, Nose and Throat"	
12.	U.N.Panda	Handbook of Ophthalmology & Rhinoryngology	A.I.T.B.S
13.	Synday Lerman	Basic Ophthalmology	M.C.Grawhill
14.	Holl & Colman's	Diseases of the Ear, Nose & Throat	Church Livingstone

15.	Sihota	Pearson's diseases of the Eye	
16.	Robert Jiffany	"Cancer Nursing"	
17.	Bouchard Rosemary	Cancer Nursing	Raven Press
18.	Carol Reed Ash & Jenkins J.F.	Enhancing the role of Cancer Nursing	
19.	Palmer	"Infection control A policy & Procedures manual"	W.B.Sanders
20.	Esther Hughes	Dermatology Nursing	
21.	Alexander G.Reaves	Disorders of the Nervous system publishers	Year book Medical
22.	Adams	"Principles of Neurology"	
23.	Patricia	"Nurses Guide to Neurological patient care"	
24.	Purchase	"Neurological & Neuro Surgical Nursing 2 nd Ed	
25.	Rudy Ellen B.	Advanced Neurological and Neuro Surgical Nursing	C.V.Mosby
26.	Lindsey Kenneth W & Ian Bone	Neurology and Neurosurgery illustrated	Church Livingstone
27.	Barker	Neuro science Nursing	
28.	Sandersons K.G.	The Cardiac patient	W.B.Sanders
29.	Sister Nancy	Cardiac Critical Care and Emergency Room care	Little Brown
30.	Crash B	Acute Myocardial Infarction	Elsevier
31.	Fritz Bonmgartner	Cardiothoracic Surgery	Chapman - Hall
32.	Dwevedi Premalatha	Communicable diseases	
33.	Bower & Plant	Communicable diseases a textbook of nurses	
34.	Glenda Esmand	Respiratory Nursing	
35.	Barker	Practical Episemiology	Church hill
36.	Ansari etal	A color atlas of AIDS in tropics	
37.	Pramod John R.	Textbook of oral medicine	J.P.Brothers

Medical Surgical Nursing (Adult including Geriatrics) – 1 Practical

Placement: Second Year

Time: 720 Hours
(23Weeks)

Areas:

- General Medical ward (Respiratory, GI, Endocrine, Renal, Hematology)
- General Surgical ward (GI, Urinary, CTVS)
- Cardiology ward
- Skin & Communicable diseases ward
- Orthopaedic ward
- Operation Theatre

Objectives:

- Provide nursing care to adult patients with medical disorders, cardiac disorders, musculoskeletal disorders, skin disorders & communicable diseases
- Counsel and educate patients and families
- Provide pre and post operative nursing care to adult patients with surgical disorders
- Identify skin problems
- Identify instruments used in common operations
- Participate in infection control practices in the Operation Theatre
- Set-up the table/trolleys for common operative procedures
- Assist in giving anesthesia
- Assist in the operative procedures
- Provide peri operative nursing care

Skills:

UNIT – 1

Weeks:6

General Medical ward:

- Assessment of the patient: taking history, perform general and specific physical examination, identify alterations and deviations
- Practice medical surgical asepsis- standard safety measures
- Administer medications: Oral, IV, IM, Subcutaneous
- IV therapy: IV canulation, maintenance and monitoring
- Oxygen therapy by different methods
- Nebulization
- Chest physio therapy
- Naso gastric feeding
- Assist in common diagnostic tests
- Perform/Assist in therapeutic procedures
- Blood and component therapy
- Throat suctioning
- Collect specimens for common investigations
- Maintain elimination: Catheterisation, Bowel wash, Enema, Urinary drainage
- Maintain intake, output and documentation
- Counsel and teach in relation to specific disease conditions

UNIT – 2

Weeks: 6

General Surgical ward:

- Practice medical surgical asepsis- standard safety measures
- Pre operative preparation of patients
- Post operative care – receiving pt, assessment, monitoring, care
- Care of wounds and drainage
- Suture removal
- Ambulation and exercise

- Naso gastric aspiration
- Care of chest drainage
- Ostomy care: Gastrostomy, Colostomy, Enterostomy
- Blood and component therapy
- Practice universal precautions

UNIT – 3

Weeks: 02

Cardiology ward:

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

UNIT – 4

Weeks: 01

Skin & Communicable diseases ward:

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

UNIT – 5

Weeks: 02

Orthopaedic ward:

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

UNIT – 6

Weeks: 06

Operation Theatre:

- Scrubbing, gowning, gloving
- Identify instruments, suturing materials for common operations
- Disinfection, carbolization, fumigation
- Preparation of instrument sets for common operations
- Sterilization of sharps and other instruments
- Prepare the OT table depending upon the operation
- Positioning and monitoring of patients
- Endotracheal intubation
- Assisting in minor and major operations
- Handling specimens
- Disposal of waste as per the guidelines

Assignments:

- Plan and give care to 2-3, 3-4 assigned patients
- Nursing care plan—1, 2

- Nursing case study/presentation/health talk/counseling HIV positive patients and families -1
- Drug presentation- 1
- Maintain drug book
- Maintain practical record book
- Assist as a circulatory nurse in: major cases -10, minor cases -5
- Assist as a scrub nurse in: major cases -10, minor cases -5

Assessment methods:

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of case study/presentation/health talk/counseling
- Completion of practical/activity record
- Evaluation of nursing care plan/case study/presentation

Internship:

Time: 260 hours (9 weeks)

Areas:

- ICU, ECU, CARDJ, ACOT
- Neuro ICU, ITU, OT
- Burns and plastic reconstructive surgery
- OT: Laproscopic, Orthopaedic, Eye, ENT

Objectives:

- To gain proficiency in ICU nursing
- Develop advance skill in special procedures used in critical care unit
- Identify potential problems and provide accordingly
- Skill in setting and handling ventilator
- Administer injection in infusion pump
- Record accurately findings and medications

- Develop IPR with family members
- Acquaint with OT technique
- Develop skill in neurological assessment
- Give care to the pt with head injury and spinal injury
- Care with chest surgery and cranial surgery
- Assess the severity of burns
- Administer rehydration therapy
- Observe reconstructive surgery
- Identify instruments
- Assist in OT setup/table layout
- Supervise sterilization
- Observe immediately after operation
- Supervise infection control

Skills:

ICU, ECU, CARDJ, ACOT:

Weeks: 02

- Assist in arterial puncture for blood gas analysis
- Perform ECG and interpret accordingly
- Conduct and analysis pulse oximetry
- Care with artificial airway
- Assist in endotracheal intubation
- Setting up ventilator
- Giving care in ventilator
- Observation of special procedure in OT

Neuro ICU, ITU, OT:

Weeks: 02

- Assess neurological status

- Implement care to head injury spinal injury patients
- Drug sheet
- Pre and postoperative care with neuro surgery patients

Burns and plastic reconstructive surgery:

Weeks: 02

- Nursing care

OT: Laproscopic, Orthopaedic, Eye, ENT:

Weeks: 03

Assignments:

- Arterial puncture-5
- Taking out ECG stripe-5
- Tracheal suction-5
- Oxygen administration by CPAP mask and use ambu bag
- Nursing care in ventilator
- Assessment for all assigned patients
- Nursing care plan-2
- Drug sheet
- Assist -5 cases

Assessment methods:

- Record book
- Checking with supervisor
- Observation checklist

Pharmacology

Placement - Second Year

Time: Lecture / Lecture Demonstration – 45Hours

Course Description: This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics, Principles of therapeutics and nursing implications.

Learning Objectives:

- Describe Pharmacodynamics, Pharmacokinetics, classification and the principles of drug administration
- Explain chemotherapy of specific infections and infestations and nurse's responsibilities
- Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities
- Describe drugs acting on Gastro Intestinal System and nurse's responsibilities
- Describe drugs used on Respiratory Systems and nurse's responsibilities
- Describe drugs used on Urinary System and nurse's responsibilities
- Describe drugs used on skin and mucous membranes and nurse's responsibilities
- Describe drugs used in De addiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immuno-suppression and nurse's responsibilities
- Describe drugs used on Nervous System and nurse's responsibilities
- Describe drugs used on Cardio-Vascular System and nurse's responsibilities
- Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities
- Demonstrate awareness of the common drugs used in alternative system of medicine

Content:

UNIT – 1

Hours: 03

General Pharmacology:

- Sources of drugs
- Routes of Drug Administration: Enteral, Parenteral
- Pharmacokinetics: Absorption, Distribution, Metabolism, interaction & Excretion
- Pharmacodynamics: Drug Dependence, Drug Inter Actions & Adverse Drug Reactions
- Therapeutic Drug Monitoring (TDM), Therapeutic Window, Drug Development & Essential Drug Concept (brief)
- Rational use of drugs

UNIT – 2

Hours: 08

Chemotherapy (Dose, Administration, Pharmacological effects, Side effects, Toxicity, role of nurse):

- Pencillins and cephalosporins
- Sulfonamides and Co-Trimoxazole
- Quinolones and Fluoro Quinolones
- Beta-Lactam Antibiotics
- Aminoglycosides Antibiotics
- Macrolide Antibiotics and Other Miscellaneous
- Broad Spectrum Antibiotics
- Chemotherapy Of Urinary Tract Infections
- Chemotherapy Of Tuberculosis Primary and Secondary line of drugs, DOTS
- Chemotherapy of Leprosy : Drugs for Leprosy, Dapsone (DDS), Clofazimine & Rifampicin
- Antifungal and antiviral agents
- Drugs for Protozoal Infections
- Antimalarial

- Anti helminthic drugs
- Antiseptics & Disinfectants
- Cancer Chemotherapy
- Immuno Suppressants, Immuno Stimulants (brief)
- Ectoparasitides

UNIT – 3

Hours: 02

Drugs of GIT:

- Drugs Used in Peptic Ulcer
- Emetics & Antiemetics
- Drugs in Constipation
- Drugs used in the Treatment of Diarrhoeas

UNIT – 4

Hours: 02

Respiratory System (brief):

- Respiratory System : Drugs for Bronchial asthma, AntiTussives

UNIT – 5

Hours: 08

Central Nervous System & Autonomic Nervous System:

- General Anaesthetics, Local Anaesthetics (brief)
- Antiepileptics
- CNS Stimulants
- Analgesics and antipyretics
- Non-Steroidal Anti Inflammatory Drugs
- Hypnotics & Sedatives: opiod and nonopiod
- AntiPsychotics and antimaniac drugs
- Antidepressant and antianxiety drugs
- Cholinergics and anticholinergics
- Skeletal muscle relaxants
- Antiparkinsonism drugs

UNIT – 6

Hours: 07

Diuretics & Cardio Vascular System:

- Diuretics
- Drugs for Congestive Heart Failure
- Drugs for Cardiac Arrhythmias (brief)
- Drugs of Hypertension
- Central Sympatholytics
- Shock & Plasma Expanders
- Intravenous Fluids
- Drugs for Angina
- BLOOD : Oral Anticoagulants, Fibrinolytics(Thrombolytics)
- Hypolipidaemic Drugs (Lipid Lowering Drugs), Drugs for Hypercholesterolaemia & Dislipidaemia
- Haematinics

UNIT – 7

Hours: 04

Vaccine & Sera Vitamins & Minerals:

- Vaccine & Sera
- Vitamins & Minerals : Vitamin A, Vitamins B complex, Vitamin D, Vitamin K, Vitamin E, Vitamin C (Ascorbic Acid)
- Minerals : Iron, Zinc

UNIT – 8

Hours: 05

Drugs for Hormonal Disorders:

- Steroids and anabolics
- Hormonal Contraception, Ovulation inducers, Oxytocics, Tocolytics.
- Insulin, Oral Hypoglycaemic Agents
- Parathyroid Hormone, Calcitonin,
- Drugs affecting Calcium balance
- Thyroid supplements and antithyroid drugs
- Prostaglandins

UNIT – 9

Hours: 03

Toxicology:

- Treatment of Poisoning (Toxicology), Drugs for Organophosphorus poisoning
- Heavy metal intoxication (chelating agents)

UNIT – 10

Hours: 03

Dermatology, Ear, Nose & Eye:

- Drugs used in the treatment of eye diseases: eye ointments, sub-conjunctival injections, drugs for glaucoma, mydriatics and miotics, anaesthetics, miscellaneous agents & the nose (brief)

Teaching and Learning Activities:

- Lecture discussion
- Drug study/presentation
- Observational visits

Assessment methods:

- Short answers
- Objective type

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
PHARMACOLOGY (PRESCRIBED BOOKS)			
1.	Satoskar & Bhandarkar	Pharmacology and Pharmacotherapeutics	Popular Prakasham
Reference			
1.	Jeane Schera C.	Lippin cott's Nurses Drug Manual	J.B.Lippincott
2.	Shobhana Mathur	Principles of Pharmacology for B.Sc.(N)	Frontline

Pathology

Section A- Pathology

Placement - Second Year

Time: Lecture / Lecture Demonstration – 30Hours
(Theory - 20 hours Practical - 10 hours)

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

Learning Objectives:

- Define the common terms used in pathology
- Appreciate the deviations from normal to abnormal: structure and functions of the body system
- Explain pathological changes in disease conditions of various systems
- Describe various laboratory tests in assessment and monitoring of disease conditions
- Describe the laboratory tests for examination of body cavity fluids: transudates and exudates
- Describe the laboratory tests for examination of Urine and faeces

Content:

UNIT – 1

Hours: 03 (T)

Introduction:

- Introduction
 - Importance of the study of pathology
 - Definition of terms
 - Methods and techniques
 - Cellular and tissue changes

- Infiltration and regeneration
- Inflammations and infections
- Wound healing
- Vascular changes

- Cellular growth, Neoplasms
 - Normal and Cancer cell
 - Benign and malignant growths
 - In situ carcinoma

- Disturbances of fluid and electrolyte balance

UNIT – 2

Hours: 10 (T), 05 (P)

Special pathology: pathological changes in disease conditions of various systems:(in brief)

- Respiratory tract
 - Tuberculosis, bronchitis, pleural effusion and pneumonia
 - Lung abscess, emphysema, bronchiectasis
 - Bronchial asthma, chronic obstructive pulmonary disease, tumours

- Cardiovascular system
 - Pericardial effusion
 - Rheumatic heart disease
 - Infective endocarditis, atherosclerosis
 - Ischemia, infarction & aneurysm

- Gastro intestinal tract
 - Peptic ulcer, typhoid
 - Carcinoma of GI tract: buccal, esophageal, gastric & intestinal

- Liver, gall bladder & pancreas
 - Hepatitis, chronic liver abscess, cirrhosis
 - Tumours of liver, gall bladder and pancreas
 - cholecystitis

- Kidneys & urinary tract
 - Glomerulonephritis, pyelonephritis
 - Calculi, renal carcinoma & cystitis

- Male genital system
 - Cryptorchidism, testicular atrophy
 - Prostatic hyperplasia, carcinoma penis & prostate

- Female genital system
 - Fibroids
 - Carcinoma cervix and endometrium
 - Vesicular mole, choriocarcinoma
 - Ectopic gestation
 - Ovarian cyst & tumours
 - Cancer breast

- Central nervous system
 - Hydrocephalus, meningitis, encephalitis
 - Vascular disorders – thrombosis, embolism
 - Stroke, paraplegia, quadriplegia
 - Tumours, meningiomas, gliomas
 - Metastatic tumour

- Skeletal system: Bone healing, osteoporosis, osteomyelitis, arthritis & tumours

UNIT – 3

Hours: 04 (T), 03 (P)

Clinical pathology: Various blood and bone marrow tests in assessment and monitoring of disease conditions: principle, procedure, reading of the result

- Hemoglobin
- RBC, white cell & platelet counts
- Bleeding time, clotting time and prothrombin time

- Blood grouping and cross matching
- Blood culture
- Serological and immunological tests
- Other blood tests
- Examination of bone marrow
- Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

UNIT – 4

Hours: 02(T), 01 (P)

Examination of body cavity fluids, transudates and exudates:

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

UNIT – 5

Hours: 01 (T), 01 (P)

Urine and faeces:

- Urine
 - Physical characteristics
 - Analysis
 - Culture and sensitivity
- Faeces
 - Characteristics
 - Stool examination: occult blood, ova, parasite and cyst, reducing substances etc

- Methods of collection for various tests, inference and normal values

Teaching and Learning Activities:

- Lecture discussion/demonstration
- Explain using charts, slides, specimen, X-rays and scans
- Visit to pathology lab, endoscopy unit and OT, clinical pathology & biochemistry lab and blood bank

Internal Assessment methods:

- Short answers
- Objective type

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
PATHOLOGY & GENETICS (PRESCRIBED BOOKS)			
1.	Triveni Bhopal	Text book of Pathology for B.Sc.(Nursing)	Frontline
2.	Mohd.Rizwan & Ayesha Ali	Genetics Nursing Perspectives	Frontline
Reference			
1.	Robbins & Cotran	Pathologic Basis of Diseases	W.B.Saunders
2.	Boyd	Pathology	
3.	Govan	Illustrated Pathology	
4.	Purnima S.Rao	Pathology and Genetics	
5.	Dalela & Varma	A Text book of Genetics	Jaiprakashnath & Co
6.	H.K.Jain	Genetics Principles, Concept and implicatons	Oxford & I.B.H

Section- B Genetics

Placement - Second Year

Time: Lecture / Lecture Demonstration – 15Hours

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

Learning Objectives:

- Explain nature, principles and perspectives of heredity
- Explain maternal, prenatal and genetic influences on development of defects and diseases
- Explain the screening methods for genetic defects and diseases in neonates and children
- Identify genetic disorders in adolescents and adults
- Describe the role of nurse in genetic services and counseling

Content:

UNIT – 1

Hours: 03

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
- Chromosomal aberrations
- Patterns of inheritance
 - Mendelian theory of inheritance
 - Multiple alleles and blood groups
 - Sex linked inheritance

- Mechanism of inheritance
- Errors in transmission (mutation)

UNIT – 2

Hours: 03

Maternal, prenatal and genetic influences on development of defects and diseases:

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

UNIT – 3

Hours: 02

Genetic testing in the neonates and children:

Screening for Congenital abnormalities, Developmental delay, Dysmorphism

UNIT – 4

Hours: 02

Genetic conditions of adolescents and adults:

- Cancer genetics- familial cancer
- Inborn errors of metabolism
- Blood group alleles and haematological disorder
- Genetic haemochromatosis

- Huntington's disease
- Mental illness

UNIT – 5

Hours: 05

Services related to genetics:

- Genetic testing, human genome project, gene therapy, the eugenics movement, genetic counseling, legal and ethical issues
- Role of nurse

Teaching and Learning Activities:

- Lecture discussion
- Explain using charts

Assessment methods:

- Short answers
- Objective type

Sociology

Placement - Second Year

Time: Lectures – 60 Hours

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

Learning Objectives:

- State the importance of sociology in nursing
- Describe the interrelationship of individual in society and community
- Describe the influence of culture on health and disease
- Identify various social groups and their interactions
- Explain the growth of population in India and its impact on health
- Describe the institutions of family and marriage in India
- Describe the class and caste system and their influence on health and health practices
- Describe the types of communities in India, their practices and the impact on health
- Explain the process of Social change
- Describe the Social system and interrelationship of social organizations
- Explain the nature and process of social control
- Describe the role of the nurse in dealing with social problems in India.

Content:

UNIT – 1

Hours: 01

Introduction:

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

UNIT – 2

Hours: 03

Individual & Society:

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

UNIT – 3

Hours: 03

Culture:

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

UNIT – 4

Hours: 04

Social groups and Processes:

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

UNIT – 5

Hours: 06

Population:

- Society and population
- Population distribution in India- demographic characteristics

- Malthusian theory of populations
- Population explosion in India and its impact on health status
- Family welfare programmes

UNIT – 6

Hours: 05

Family and Marriage:

- Family- Functions
- Types- Joint, nuclear, blended and extended family characteristics
- The modern family – Changes, problems-dowry etc., welfare services
- Changes & 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

UNIT – 7

Hours: 07

Social Stratification:

- Meaning & types of social stratification
- The Indian caste system- origin & features
- Features of caste in India today
- Social class system and status
- Social mobility-meaning & types
- Race as a biological concept, criteria of racial classification
- Salient features of primary races-Racism
- Influence of class, caste and race on health and health practices

UNIT – 8

Hours: 06

Types of Communities in India (Rural, Urban and Regional):

- Features of village community & characteristics of Indian villages- Panchayat system, social dynamics
- Community development project & planning
- Changes in Indian rural life

- Availability of health facilities in rural and its impact on health and health practices
- Urban – community- features
- The growth of cities:
- Urbanization and its impact on health and health practices
- Major urban problems- urban slums
- Region: problems and impact on health

UNIT – 9

Hours: 04

Social Change:

- Nature and process of Social Change
- Factors influencing social change: cultural change, cultural lag
- Introduction to theories of social change: linear, cyclical, marxian, functional
- Role of nurse- change agents

UNIT – 10

Hours: 04

Social organization and Social system:

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

UNIT – 11

Hours: 02

Social Control:

- Nature and process of social control
- Political, legal, religious, educational, economic, industrial and technological systems, norms & values- folkways & mores customs, laws and fashion
- Role of nurse

Social Problems:

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

Teaching and Learning activities:

- Lecture discussion
- Panel discussion
- Community identification
- Family case study
- Community survey
- Visits to rural and urban community
- Observation visits
- Institutional visits

Assessment methods:

- Essay type
- Short answers
- Assessment of report on community identification/ community survey
- Assessment of family case study
- Assessment of visit reports

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
SOCIOLOGY (Prescribed)			
1.	Vidya Bhushan & Sachdev	An introduction to Sociology	Emmess Publishers
2.	K.P.Neeraja	Textbook of sociology for Nurses	
3.	Ian Clement	Sociological implications in Nursing	Frontline
References			
1.	R.N. Sharma	Principles of Sociology	Frontline
2.	Prof.R.S. Caroline	Sociology for Nurses	Frontline

Community Health Nursing - 1

Placement: Second Year

Time: Lecture/Lecture demonstration - 90 hours

Practical - 135 hours
(2Weeks Urban, 2 WeeksRural)

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

Learning Objectives:

- Describe concept and dimensions of health
- Describe determinants of health
- Describe concept, scope, uses, methods and approaches of epidemiology
- Describe epidemiology and nursing management of common communicable and non-communicable diseases
- Describe concepts, and scope of demography
- Describe methods of data collection, analysis and interpretation of demographic data
- Identify the impact of population explosion in India
- Describe the methods of population control

Content:

UNIT – 1

Hours: 02

Introduction:

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

UNIT – 2

Hours: 20

Determinants of health:

- Eugenics
- Environment physical: air, light, ventilation, water, housing, sanitation; disposal of waste, disposal of dead bodies, forestation, noise, climate, communication: infrastructure facilities and linkages
- Acts regulating the environment: national pollution control board
- Bacterial & viral: agents, host carriers and immunity
- Arthropods and rodents
- Food hygiene: production, preservation, purchase, preparation, consumption
- Acts regulating food hygiene prevention of food adulteration act, drugs and cosmetic act
- Socio-cultural: Customs, taboos, marriage system, family structure, status of special groups: females, children, elderly, challenged groups and sick persons
- Lifestyle
- Hygiene
- Physical activity: Recreation and sleep, sexual life, spiritual life, philosophy, self reliance, dietary pattern, education, occupation
- Financial management: income, budget, purchasing power, security

UNIT – 3

Hours: 10

Epidemiology:

- Definition, concept, aims, scope, uses and terminology used in epidemiology
- Dynamics of disease transmission: epidemiological triad
- Morbidity and mortality: measurements
- Levels of prevention

- Methods of epidemiology- descriptive, analytical: epidemic investigation, experimental

UNIT – 4

Hours: 25

Epidemiology and nursing management of common Communicable Diseases:

- Respiratory infections: small pox, chicken pox, measles, influenza, rubella, ARI's & pneumonia, mumps, diphtheria a whooping cough, meningococcal meningitis, tuberculosis, SARS
- Intestinal infections: poliomyelitis, viral hepatitis, cholera, diarrhoeal diseases, typhoid fever a food poisoning, amoebiasis, hook worm infection, ascariasis, dracunculiasis
- Arthropod infections: dengue, malaria, flariasis
- Zoonoses
- Viral: rabies, yellow fever, japanese encephalitis, kyasnur forest disease
- Bacterial: brucellosis, plague a human salmonellosis, Anthrax, Leptospirosis, : Trachoma, Tetanus, Leprosy
- Rickettsial Diseases
- Parasitic zoonoses: Taeniasis, hydatid disease Leishmaniasis
- Sexually transmitted infections:

UNIT – 5

Hours: 10

Epidemiology and Nursing management of Non-Communicable diseases:

- Malnutrition: under nutrition, over nutrition, nutritional deficiencies
- anaemia, hypertension, stroke, rheumatic heart disease, coronary heart disease
- cancer, diabetes mellitus, blindness, accidents, mental illness, obesity, iodine deficiency, fluorosis, epilepsy

UNIT – 6

Hours: 06

Demography:

- Definition, concept and scope

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

UNIT – 7

Hours: 17

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

Teaching and Learning activities:

- Lecture discussion/demonstration
- Explain using charts, graphs, models, films, slides
- Visits to water supply, sewage disposal, milk plants, slaughter house etc
- Seminar
- Counseling
- Supervised field practice-health centers, clinics and homes
- Group projects/health education
- Community identification survey
- Population survey
- Practice session

Assessment methods:

- Essay type
- Short answers
- Objective type
- Assessment of survey report

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
COMMUNITY HEALTH NURSING (Prescribed Books)			
1.	Park J. & Park K	Textbook of Community health for Nurses	Banarsidas Bhanot
2.	J.E.Park	Preventive & Social Medicine	Banarsidas Bhanot
3.	Kamala G.	Community Health Nursing	Florence Publishers
References			
1.	Kasturi Sunder Rao	Introduction Community Health Nursing	
2.	Bedi	Social and Preventive Medicine	
3.	Mahajan	Preventive Social Medicine	

Community Health Nursing I - Practical

Placement: Second Year

Time: Practical - 135 hours

Areas: Community Health Nursing

Duration: 2 wks urban and 2 wks rural

Objectives:

- Build and maintain rapport
- Identify demographic characteristics, health determinants and community health resources
- Diagnose health needs of individual and families
- Provide primary care in health centre
- Counsel and educate individual, family and community

Skills:

- Use techniques of interpersonal relationship
- Identification of health determinants of community
- History taking
- Physical examination
- Collect specimens: sputum, malaria smear
- Perform simple lab tests at centre- blood for haemoglobin 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
 - Healthy life style

- Family welfare methods
- Health promotion

Assignments:

- To work with 2 assigned families each in urban and rural areas
- 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 checklist
- Evaluation of family study, observation report and health talk
- Completion of activity record

Communication & Educational Technology

Placement: Second Year

Time: Lecture/Lecture demonstration - 90 hours
(Theory - 60 hours Practical - 30 hours)

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

Learning Objectives:

- Describe the communication process
- Identify techniques of effective communication
- Establish effective inter-personal relations with patients, families & co-workers
- Develop effective human relations in context of nursing
- Develop basic skill of counseling and guidance
- Describe the philosophy & principles of education
- Explain the teaching learning process
- Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings
- Prepare and use different types of educational media effectively
- Prepare different types of questions for assessment of knowledge, skills and attitudes
- Teach individuals, groups and communities about health with their active participation

Content:

UNIT – 1

Hours: 05 (T)

Review of Communication Process:

- Process, elements and channel

- Facilitators
- Barriers and methods of overcoming
- Techniques

UNIT – 2

Hours: 05 (T)

Interpersonal Relations:

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

UNIT – 3

Hours: 05 (T)

Human Relations:

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

UNIT – 4

Hours: 10 (T), 05 (P)

Guidance & counseling:

- Definition, purpose, scope and need
- Basic principles
- Organization of counseling services
- Types of counseling approaches
- Role and preparation of counselor
- Issues for counseling in nursing: students and practitioners
- Counseling process – steps & techniques, tools of counselor
- Managing disciplinary problems
- Management of crisis & referral

UNIT – 5

Hours: 05 (T)

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
- Classroom management

UNIT – 6

Hours: 10 (T), 10 (P)

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 and simulation etc.
- Clinical teaching methods: case method, nursing round & reports, bedside clinic, conference (individual & group), process recording.

UNIT – 7

Hours: 10 (T), 08 (P)

Educational Media:

- Purposes & types of A.V.Aids, principles and sources etc
- Graphic aids: chalk board, chart, graph, poster, 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

UNIT – 8

Hours: 05 (T), 07 (P)

Assessment:

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

UNIT – 9

Hours: 05 (T)

Information, Education & Communication for Health (IEC):

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

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Exercise with audio/video tapes
- Process recording
- Sociometry
- Group games
- Psychometric exercises followed by discussion
- Role play on counseling in different situations followed by discussion

- Prepare lesson plan
- Micro teaching
- Exercise on writing objectives
- Conduct 5 teaching sessions using different methods & media
- Prepare different teaching aids – projected & non projected
- Exercise on writing different types of assessment tools
- Plan & conduct health education sessions for individuals, group & communities

Assessment methods:

- Respond to test based critical accidents
- Essay type
- Short answers
- Objective type
- Assess the planning & conduct of the educational session
- Assess performance in role play situations
- Assess lesson plans, teaching sessions, teaching aids prepared
- Assess the strategies used in practice teaching sessions and exercise sessions

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
COMMUNICATION & EDUCATIONAL TECHNOLOGY (PRESCRIBED BOOKS)			
1.	K.Tryphena Sheeba	Communication and Education Technology for B.Sc Nursing	Frontline
Reference			
1.	I.Clement	Textbook of Communication and Education Technology	
2.	Sampath & Panner Salwon	Introduction to Education Technology	Sterling

B.Sc NURSING 4YDC COURSE

Third Year Syllabus:

- 1. Midwifery & Obstetrical Nursing - I**
- 2. Child Health Nursing & Practical**
- 3. Mental Health Nursing & Practical**
- 4. Medical Surgical Nursing-II
(Adult and Geriatrics) & Practical**

Midwifery and Obstetrical Nursing - I

Placement: Third Year

Time: Theory – 40 Hours, Practical – 180 Hours

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

Learning Objectives:

- Recognize the trends and issues in midwifery and obstetrical nursing
- Describe the anatomy and physiology of female reproductive system
- Describe the diagnosis and management of women during antenatal period
- Describe the physiology and stages of labour
- Describe the management of women during intra natal period
- Describe the identification and management of women with high risk pregnancy
- Describe the physiology of puerperium
- Describe the management of women during post natal period
- Describe the assessment and management of normal neonate
- Describe management of abnormal labour and obstetrical emergencies
- Describe management of post natal complications
- Identify the high risk neonates and their nursing management
- Describe indication, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers
- Appreciate the importance of family welfare programme
- Describe the methods of contraception and role of nurse in family welfare programme

Content:

UNIT – 1

Hours: 03

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, perinatal and fertility rates.

UNIT – 2

Hours: 06

Review of anatomy and physiology of female reproductive system and foetal 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 organs of reproduction – external genitalia, internal genital organs and their anatomical relations, musculature – blood supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum
- Physiology of menstrual cycle
- Human sexuality, foetal development, conception
- Review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term, functions, abnormalities, the foetal sac, amniotic fluid, the umbilical chord
- Foetal circulation, foetal skull, bones, sutures and measurements
- Review of genetics.

UNIT – 3

Hours: 08

Assessment and management of pregnancy (antenatal):

- Normal pregnancy
- Physiological changes during pregnancy: reproductive system, cardio vascular system, respiratory system, urinary system, gastro intestinal system,

metabolic changes, skeletal changes, skin changes, endocrine system, psychological changes & discomforts of pregnancy

- Diagnosis of pregnancy: signs, differential diagnosis, confirmatory tests
- Antenatal care: objectives, assessment: history and physical examination, antenatal examination, signs of previous child-birth, relationship of foetus to uterus and pelvis: lie, attitude, presentation, position, per vaginal examination
- Screening and assessment for high risk
- Risk approach
- History and physical examination
- Modalities of diagnosis; invasive & non-invasive, ultrasonics, cardio tomography, NST,CST
- Antenatal preparation: antenatal counseling, antenatal exercises, diet, substance use, education for child-birth to husband and families, preparation for safe-confinement, prevention from radiation
- Psycho-social and cultural aspects of pregnancy: adjustment to pregnancy, unwed mother, single parent, teenage pregnancy, sexual violence
- Adoption

UNIT – 4

Hours: 12

Assessment and management of intra-natal period:

- Physiology of labour, mechanism of labour
- Management of labour: First stage:- signs and symptoms of onset of labour; normal and abnormal, duration; preparation of : labour room woman, assessment and observation of women in labour, partogram- maternal and foetal monitoring, active management of labour, induction of labour, pain relief and comfort in labour
- Second stage: signs and symptoms; normal and abnormal, duration, conduct of delivery; principles and techniques, episiotomy (only if required), receiving the new born- neonatal resuscitation; initial steps and subsequent resuscitation, care of umbilical cord, immediate assessment including screening for congenital anomalies, identification, bonding, initiate feeding, screening and transportation of the neonate

- Third stage: signs and symptoms; normal and abnormal, duration, method of placental expulsion, management: principles and techniques, examination of the placenta, examination of the perineum
- Maintaining records and reports
- Fourth stage

UNIT – 5

Hours: 05

Assessment and management of women during post natal period:

- Normal puerperium; physiology duration
- Postnatal assessment and management: promoting physical and emotional Well-being, lactation management, immunization
- Family dynamics after child-birth
- Family welfare services: methods, counseling
- Follow-up
- Records and reports

UNIT – 6

Hours: 06

Assessment and management of normal neonates:

- Normal neonate: physiological adaptation, initial & daily assessment, essential newborn care: thermal control, breast feeding, prevention of infections
- Immunization
- Minor disorders of newborn and its management
- Levels of neonatal care (level I,II & III)
- Maintenance of reports and records

Child Health Nursing

Placement: Third Year

Time: Theory – 100 Hours

Practical – 270 Hours (9 weeks)

Internship – 145 Hours (3 weeks)

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

Learning Objectives:

- Explain the modern concept of child care & principles of child health nursing
- Describe national policy programs and legislation in relation to child health and welfare
- List major causes of death during infancy, early & late childhood
- Describe the major functions and role of the paediatric nurse in caring for a hospitalized child
- Describe the principles of child health nursing
- Describe the normal growth & development of children at different stages
- Identify the needs of children at different stages & provide parental guidance
- Identify the nutritional needs of children at different stages and ways of meeting the needs
- Appreciate the role of play for normal & sick children
- Appreciate the preventive measures and strategies for children
- Provide care to normal & high risk neonates
- Perform neonatal resuscitation
- Recognize and manage common neonatal problems
- Provide nursing care in common childhood diseases
- Identify measures to prevent common childhood diseases including immunization

- Manage the child with behavioural & social problems
- Identify the social & welfare services for challenged children

Content:

UNIT – 1

Hours: 17

Introduction

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

UNIT – 2

Hours: 24

The healthy child:

- Principles of growth and development
- Factors affecting growth & development
- Growth and development from birth to adolescence
- The needs of normal children through the stages of developmental and parental guidance

- Nutritional needs of children & infants: breast feeding, exclusive breast feeding supplementary/artificial feeding and weaning
- Baby friendly hospital concept
- Accidents: causes and prevention
- Value of play and selection of play material
- Preventive immunization, immunization programme and cold chain
- Preventive pediatrics
- Care of under five & under five clinics/well baby clinics

UNIT – 3

Hours: 15

Nursing care of a neonate:

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

UNIT – 4

Hours: 10

Integrated management of neonatal and childhood illnesses (IMNCI)

UNIT – 5

Hours: 24

Nursing management in common childhood diseases:

- Nutritional deficiency disorders
- Respiratory disorders and infections
- Gastrointestinal infections, infestations and congenital disorders
- Cardio vascular problems: congenital defects and rheumatic fever, rheumatic heart disease
- Genito-urinary disorders: acute glomerulo nephritis, nephritic syndrome, wilms tumor, infection and congenital disorders

- Neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida
- Hematological disorders: anemias, thalassemia, ITP, Leukemia, hemophilia
- Endocrine disorders: Juvenile diabetes mellitus
- Orthopedic disorders: club feet, hip dislocation and fracture
- Disorders of skin, eye, and ears
- Common Communicable diseases in children, their identification, nursing management in hospital and home and prevention
- Child health emergencies: poisoning, foreign bodies, hemorrhage, burns and drowning
- Nursing care of infant and children with HIV/AIDS

UNIT – 6

Hours: 10

Management of behavioural & social problems in children:

- Management of common behavioural disorders
- Management of common psychiatric problems
- Management of challenged children: Mentally, Physically & Socially challenged
- Welfare services for challenged children in India
- Child guidance clinics

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Demonstration of common paediatric procedures
- Developmental study of infant and children
- Observation study of normal and sick child
- Field visit to anganwadi, child guidance clinics, school for mentally & physically, socially challenged
- Film show on breast feeding
- Workshop on neonatal resuscitation Practice session
- Supervised clinical practice

Assessment Methods:

- Short answers
- Objective type
- Assessment of skills with checklist
- Assessment of field reports, field visits and developmental study reports

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
CHILD HEALTH NURSING (PRESCRIBED BOOKS)			
1.	Marlow	Pediatrics	W.B.Saunders
2.	Terry Kyle	Essentials of Pediatric Nursing	Wolter Kluwer
References			
1.	Whaley & Wong	Wong's Nursing care infant and children	Elsevier
2.	Hocken berry	Wong's Nursing care infant and children	LWW
3.	Parul Datta	Pediatric Nursing	
4.	Greef John W. (Edt.)	Manual of Pediatric Therapeutics	
5.	Meharban Sing	Care of the New born	
6.	Behrman & Kliegman	Nelson Essentials of Pediatrics	W.B.Saunders
7.	Yadav. K	Nursing practice in Pediatric Surgery	
8.	O.P.Ghai	Essentials of Pediatrics	
9.	Bowden	Pediatric Nursing Procedures	
10.	Smith	Family Centered Care concepts, theory and practice	
11.	Nancy P. Hotifield etal	Broadribb's introduction to pediatric Nursing	Wolter Kluwer

Child Health Nursing-Practical

Placement: Third year

Time: 270 Hours (9 weeks)

Internship: 145 Hours (3 weeks)

Areas: Paediatric Medicine Ward, Paediatric Surgery Ward, Paediatric OPD/
Immunization room, Paediatric Medicine and Surgery ICU:

Objectives:

- Provide nursing care to children with various medical disorders
- Counsel and educate parents
- Recognize different pediatric surgical conditions/malformations
- Provide pre and post operative care to children with common pediatric surgical conditions/malformation
- Perform assessment of children: health, developmental and anthropometric
- Perform immunization
- Give health education/nutritional education
- Provide nursing care to critically ill children

Skills:

Paediatric Medicine Ward:

Weeks: 03

- Taking paediatric history
- Physical examination and assessment of children
- Administer oral, I/M & IV medicine/fluids
- Calculation of fluid requirements
- Prepare different strengths of I.V.fluids
- Apply restraints
- Administer Oxygen inhalation by different methods
- Give baby bath
- Feed children by katori spoon, etc

- Collect specimens for common investigations
- Assist with common diagnostic procedures
- Teach mothers/parents: malnutrition, oral rehydration therapy, feeding & weaning,
- Immunization schedule, play therapy, specific disease conditions

Pediatric Surgery Ward:

Weeks: 03

- Calculate, prepare and administer I/V fluids
- Do bowel wash
- Care for ostomies: colostomy irrigation, ureterostomy, gastrostomy, enterostomy
- Urinary catheterization and drainage
- Feeding: naso-gastric, gastrostomy, jejunostomy
- Care of surgical wounds: dressing, suture removal
- Pediatric OPD/immunization room
- Assessment of children: health assessment, developmental assessment, anthropometric assessment
- Immunization
- Health/nutritional education

Paediatric OPD/Immunization room:

Weeks: 01

Assessment of children: Health assessment, Developmental assessment,
Anthropometric assessment
Immunization
Health/Nutritional Education

Paediatric Medicine and Surgery ICU:

Weeks: 02

- Care of a baby in incubator/warmer
- Care of a child on ventilator
- Endotracheal suction
- Chest physiotherapy

- Administer fluids with infusion pump
- Total parenteral nutrition
- Phototherapy
- Monitoring of babies
- Cardio pulmonary resuscitation

Assignments:

- Give care to three assigned pediatric surgical patients
- Nursing care plan - 1
- Case study/presentation/health talk/developmental study - 1
- Observation report 1

Assessment Methods:

- Assess clinical performance with rating scale
- Assess each skill with checklist OSCE/OSPE
- Evaluation of case study/presentation and health education session
- Completion of activity record
- Evaluation of observation report

Internship:

Areas: Paediatric Medicine Ward/ICU, Paediatric Surgery Ward/ICU, NICU.

Duration: 1 week for each ward

Objectives:

- Provide comprehensive care to children with medical and surgical conditions
- Provide intensive care to neonates

Skills:

- Integrated Practice

Assignments:

- Assess clinical performance with rating scale

Mental Health Nursing

Placement: Third Year

Time: Theory - 100 Hours

Practical - 270 Hours

Internship - 95 Hours (2 weeks)

Course Description:

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

Learning Objectives:

- Describes the historical development & current trends in Mental Health Nursing
- Describe the epidemiology of mental health problems
- Describe the national mental health Act; programmes and mental health policy
- Discusses the scope of mental health nursing
- Describe the concept of normal & abnormal behaviour
- Defines the various terms used in mental health nursing
- Explains the classification of mental disorders
- Explain psycho dynamics of maladaptive behaviour
- Discuss the etiological factors, psychopathology of mental disorders
- Explain the principles and standards of mental health nursing
- Describe the conceptual models of mental health nursing
- Describe nature, purpose and process of assessment of mental health status
- Identify therapeutic communication techniques
- Describe therapeutic relationship, therapeutic impasse and its intervention
- Explain treatment modalities and therapies used in mental disorders and role of the nurse
- Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with schizophrenia, and other psychotic,

mood, neurotic, stress related and somatization, substance use, personality, sexual and eating disorders

- Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency
- Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of organic brain disorders
- Identify psychiatric emergencies and carry out crisis intervention
- Explain legal aspects applied in mental health settings and role of the nurse
- Describe the model of preventive psychiatry
- Describes community mental health services and role of the nurse

Content:

UNIT – 1

Hours: 06

Introduction:

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

UNIT – 2

Hours: 08

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 behaviour of individuals and groups: stress, crisis and disaster(s)
- Etiology: bio-psycho-social factors
- Psychopathology of mental disorders: review of structure and function of brain, limbic system and abnormal neuro transmission
- Principles of mental health nursing
- Standards of mental health nursing practice
- Conceptual models and the role of nurse: existential model, psycho-analytical models, behavioural model, interpersonal model

UNIT – 3

Hours: 08

Assessment of mental health status:

- History taking
- Mental status examination
- Mini mental status examination
- Neurological examination review
- Investigations: related blood chemistry, ECG & MRI
- Psychological tests
- Role and responsibilities of nurse

UNIT – 4

Hours: 06

Therapeutic communication and nurse-pattern relationship:

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

UNIT – 5

Hours: 14

Treatment modalities and therapies used in mental disorders:

- Psycho Pharmacology

- Psychological therapies: therapeutic community, psycho therapy-individual: psycho-analytical, cognitive and supportive, family, group, behavioural, play, psycho-drama, music, dance, recreational and light therapy, relaxation therapies: yoga, meditation, bio feedback
- Alternative systems of medicine
- Occupational therapy
- Physical therapy: electro convulsive therapy
- Geriatric considerations
- Role of nurse in above therapies

UNIT – 6

Hours: 06

Nursing management of patient with schizophrenia, and other psychotic disorders:

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

UNIT – 7

Hours: 06

Nursing management of patients with mood disorders:

- Mood disorders: Bipolar affective disorder, Mania depression and dysthymia etc
- Etiology, psycho-pathology, clinical manifestations, diagnosis
- Nursing assessment-history, physical and mental assessment
- Treatment modalities and nursing management of patients with mood disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

UNIT – 8

Hours: 08

Nursing management of patients with neurotic, stress related and somatization disorders:

- Anxiety disorder, phobias, dissociation and conversion disorder, obsessive compulsive disorder, somatoform disorders, post traumatic stress disorder
- Etiology, psycho-pathology, clinical manifestations, diagnosis
- Nursing assessment-history, physical and mental assessment
- Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

UNIT – 9

Hours: 06

Nursing management of patients with Substance use disorders:

- Commonly used psychotropic substance: classification, forms, routes, action, intoxication and withdrawal
- Etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis
- Nursing assessment-history, physical and 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

UNIT – 10

Hours: 06

Nursing management of patients with Personality, Sexual and Eating disorders:

- Classification of disorders
- Etiology, psycho-pathology, characteristics, diagnosis
- Nursing assessment-history, physical and mental assessment
- Treatment modalities and nursing management of patients with personality, sexual and eating disorders
- Geriatric considerations
- Follow-up and home care and rehabilitation

UNIT – 11

Hours: 06

Nursing management of childhood and adolescent disorders including mental deficiency:

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

UNIT – 12

Hours: 05

Nursing management of organic brain disorders:

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

UNIT – 13

Hours: 06

Psychiatric emergencies and crisis intervention:

- Types of psychiatric emergencies and their management
- Stress adaptation model: stress and stressor, coping, resources and mechanism
- Grief: theories of grieving process, principles, techniques of counseling
- Types of crisis
- Crisis intervention: principles, techniques and process
- Geriatric considerations
- Role and responsibilities of nurse

UNIT – 14

Hours: 04

Legal issues in Mental Health Nursing:

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

UNIT – 15

Hours: 05

Community Mental Health Nursing:

- Development of community mental health services
- National mental health programme
- Institutionalization versus deinstitutionalization
- Model of preventive psychiatry: levels of prevention
- Mental health services available at the primary, secondary, tertiary levels including rehabilitation and role of nurse
- Mental health agencies: government and voluntary, national and international
- Mental health nursing issues for special populations: children, adolescence, women, elderly, victims of violence and abuse, handicapped, HIV/AIDS etc.

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Case presentation/discussion,
- Role play
- Process recording
- Group work
- Clinical/field practice

- Field visits to mental health service agencies
- Practice session
- Explain using charts
- Review of personality development

Assessment methods:

- Short answers
- Essay type
- Objective type
- Assessment of skills with checklist
- Assessment of the field visit reports
- Assessment of patient management problems

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
MENTAL HEALTH NURSING (PRESCRIBED BOOKS)			
1.	Bimala Kapoor	Textbook of Psychiatric Nursing Vol. I&II	
References			
1.	K.P.Neeraja	Essentials of Mental Health and Psychiatric Nursing Vol. I & II	
2.	Johnson Barbara	Psychiatric Nursing	Lippincott
3.	Stuart	Principles and Practice of Psychiatric Nursing	
4.	Mohar Landa M.	Psychiatric Mental health Nursing evidence Based concepts skills and practices	LWW

Mental Health Nursing-Practical

Placement: Third Year

Time: Practical – 270 hours (9 weeks)
Internship – 95 hours (2 weeks)

Areas: Psychiatric OPD, Child Guidance clinic, Inpatient ward, Community psychiatry

Objectives:

- Assess patients with mental health problems
- Observe and assist in therapies
- Counsel and educate children, patient, families, community and significant others
- Assessment of children with various mental health problems
- To provide nursing care for patients with various mental health problems
- Assist in various therapies
- To identify patients with various mental disorders
- To motivate patients for early treatment and follow up
- To assist in follow up clinic

Skills to be developed:

UNIT – 1

Week: 01

Psychiatric OPD:

- History taking
- Perform mental status examination (MSB)
- Assist in Psychometric assessment
- Perform Neurological examination
- Observe and assist in therapies
- Teach patients and family members

UNIT – 2

Week: 01

Child Guidance clinic:

- History taking
- Assist in Psychometric assessment

- Perform Neurological examination
- Observe and assist in various therapies
- Teach family and significant others

UNIT – 3

Week: 06

Inpatient ward:

- History taking
- Perform mental status examination (MSB)
- Perform Neurological examination
- Assist in Psychometric assessment
- Record therapeutic communication
- Administer medications
- Assist in Electroconvulsive therapy (ECT)
- Participate in all therapies
- Prepare patients for Activities of Daily Living (ADL)
- Conduct admission and discharge counseling
- Counsel and teach patients and families

UNIT – 4

Week: 01

Community psychiatry:

- Conduct case work
- Identify individuals with mental health problems
- Assists in mental health camps and clinics
- Counsel and teach family members, patients and community

Assignments:

- History taking and mental status examination-2
- Health education- 1
- Observation report of OPD, field visits
- Case work-1
- Observation report of different therapies- 1

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

Assessment Methods:

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of health education
- Assessment/ Evaluation of observation report
- Completion of activity record
- Evaluation of the case study, case work, care plan, clinical presentation, process recording

Internship:

Areas: Psychiatry ward

Duration: 2 weeks

Objectives: Provide comprehensive care to patients with mental health problems

Skills: Integrated Practice

Assignments: Assess clinical performance with rating scale

MEDICAL SURGICAL NURSING (Adult Including Geriatrics)-II

Placement: Third Year

Time: Lecture/Lecture demonstration - 150 hours
Practical - 270 hours

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

Learning Objectives:

- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear, Nose, Throat, Eye, Neurological disorders, female reproductive system
- Describe the concepts of reproductive health and family welfare programme
- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with burns, reconstructive and cosmetic surgery
- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with oncology
- Describe organization of emergency and disaster care services
- Describe the role of nurse in disaster management
- Describe the role of nurse in management of common emergencies
- Explain the concept and problems of aging
- Describe nursing care of the elderly
- Describe organization of critical care units
- Describe the role of nurse in management of patients critical care units
- Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with occupational and industrial health disorder

Content:

UNIT – 1

Hours: 18

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: Meniere's disease, labyrinthitis, ototoxicity, tumours
- Upper airway infections: common cold, sinusitis, ethmoiditis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis
- Upper respiratory airway- epistaxis
- Nasal obstruction, laryngeal obstruction, cancer of the larynx
- Cancer of the oral cavity
- Speech defects and speech therapy
- Deafness
- Prevention, control and rehabilitation
- Hearing Aids, implanted hearing devices
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of Ear, Nose and Throat
- Role of nurse communicating with hearing impaired and muteness

UNIT – 2

Hours: 15

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 disorders:
 - Refractive errors
 - Eyelids-infection, tumours and deformities
 - Conjunctiva-inflammation and infection, bleeding
 - Cornea-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 nurse in communication with visually impaired patient, Eye camps
 - Special therapies
 - Nursing procedures
 - Drugs used in treatment of disorders of Eye

UNIT – 3

Hours: 26

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 neurological disorders
- Congenital malformations

- Headache
- Head injuries
- Spinal injuries: Paraplegia, Hemiplegia, Quadraplegia
- Spinal cord compression-herniation of intervertebral disc
- Tumors of the brain & spinal cord
- Intra cranial and cerebral aneurysms
- Infections: Meningitis, Encephalitis, Brain abscess, neurocysticercosis
- Movement disorders: Chorea, Seizures, Epilepsies
- Cerebro Vascular Accidents (CVA)
- Cranial, Spinal Neuropathies – Bell's palsy, trigeminal neuralgia
- Peripheral Neuropathies; Guillain Barre Syndrome
- Myasthenia gravis
- Multiple sclerosis
- Degenerative diseases: Delirium, Dementia, Alzheimer's disease, Parkinson's disease
- Management of unconscious patients with stroke
- Role of nurse in communicating with patient having neurological deficit
- Rehabilitation of patients with neurological deficit
- Role of nurse in long stay facility and at home
- Special therapies
- Nursing procedures
- Drugs used in treatment of neurological disorders

UNIT – 4

Hours: 26

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
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing, management of disorders of female reproductive system

- Congenital abnormalities of female reproductive system
- Sexuality and reproductive health
- Sexual health assessment
- Menstrual disorders: Dysmenorrhea, Amenorrhea, Premenstrual Syndrome
- Abnormal Uterine Bleeding: Menorrhagia, Metrorrhagia
- Pelvic Inflammatory Disease
- Ovarian and fallopian tube disorders: infections, cysts, tumors
- Uterine and cervical disorders: Endometriosis, polyps, fibroids, cervical and uterine tumors, uterine displacement, cystocele/urethrocele/rectocele
- Vaginal disorders: infections and discharges, fistulas
- Vulval disorders: infections, cysts, tumors
- Diseases of breasts: deformities, infections, cysts and tumors
- Menopause and hormonal replacement therapy
- Infertility
- Contraception: types, methods, risk and effectiveness:
- Spacing methods: barrier methods, intra uterine devices, hormonal, post conceptional methods, etc
- Terminal methods: sterilization
- Emergency contraception methods
- Abortion – natural, medical and surgical abortion – MTP Act
- Toxic Shock Syndrome
- Injuries and trauma; Sexual violence
- Special therapies
- Nursing procedures
- Drugs used in treatment of gynaecological disorders
- National family welfare programme

UNIT – 5

Hours: 10

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

- Review of anatomy and physiology of the skin and connective tissues and various deformities

- Nursing assessment-history and physical assessment and assessment of burns and assessment of burns and fluid and electrolyte loss
- Etiology, classification, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Burns, Re-constructive and Cosmetic surgery
- Types of Re-constructive and Cosmetic surgery; for burns, congenital deformities, injuries and cosmetic purposes
- Role of nurse
- Legal aspects
- Rehabilitation
- Special therapies: psycho social aspects
- Nursing procedures
- Drugs used in treatment of Burns, Re-constructive and Cosmetic surgery

UNIT – 6

Hours: 13

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, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of oncological conditions
- Common malignancies of various body systems: oral, larynx, lung, stomach, and colon, liver, leukemias and lymphomas, breast, cervix, ovary, uterus, sarcoma, brain, renal, bladder, prostate etc
- Oncological emergencies
- Modalities of treatment: immunotherapy, chemotherapy, radiotherapy, surgical interventions, stem cell and bone marrow transplants, gene therapy, other forms of treatment
- Psychological aspects of cancer
- Rehabilitation

- Palliative care: symptom and pain management, nutritional support
- Home care
- Hospital care
- Stomal therapy
- Special therapies: psycho social aspects
- Nursing procedures

UNIT – 7

Hours: 10

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, war
- Policies related to emergency/disaster management; international, national, state, institutional
- Disaster preparedness
- Team, guidelines, protocols, equipments, resources
- Coordination and involvement of; community, various govt. departments, non-govt.organizations and international agencies
- Role of nurse: working
- Legal aspects of disaster nursing
- Impact on health and after effects; post traumatic stress disorder
- Rehabilitation: physical, 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
- Coordination and involvement of different departments and facilities
- Nursing assessment-history and physical assessment

- Etiology, classification, 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 accidents, crush injuries, wound
 - Bites
 - Poisoning: food, 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

UNIT – 8

Hours: 10

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

UNIT – 9

Hours: 14

Nursing management of patient in critical care units:

- Nursing assessment-history and physical assessment
- Classification
- Principles of critical care nursing
- Organization: physical setup, policies, staffing norms
- Protocols, equipment and supplies
- Special equipments: ventilators, cardiac monitors, defibrillators
- Resuscitation equipments
- Infection control protocols

- Nursing management of critically ill patient
- Monitoring of critically ill patient
- CPR-Advance Cardiac Life support
- Treatments and procedures
- Transitional care
- Ethical and legal aspects
- Communication with patient and family
- Intensive care records
- Crisis intervention
- Death and dying-coping with
- Drugs used in critical care unit

UNIT – 10

Hours: 08

Nursing management of Patients adults including elderly with Occupational and Industrial disorders:

- Nursing assessment-history and physical assessment
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Occupational and Industrial disorders
- Role of nurse
- Special therapies, alternative therapies
- Nursing procedures
- Drugs used in treatment of Occupational and Industrial disorders

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Practice session
- Role plays
- Supervised clinical practice
- Disaster management drills

- Case discussion/ Seminar
- Explain using charts, graphs, models, films, slides
- Health education
- Drug book/presentation
- Visit to old age home, rehabilitation centre, eye bank
- Participation in eye- camps
- Counseling

Assessment Methods:

- Short answers
- Essay type
- Objective type
- Assessment of skills with checklist
- Assessment of patient management problems

MEDICAL SURGICAL NURSING (Adult Including Geriatrics) - II Practical

Placement: Third Year

Time: Lecture/Lecture demonstration - 120 hours

Practical - 270 hours

Internship - 430 hours

Areas: ENT, Ophthalmology, Neurology, Gynecology ward, Burns unit, Oncology unit, Critical care unit, Casualty/Emergency

Objectives:

- Provide care to patients with ENT , Eye, Neurological, gynecology, Burns, Cancer, disorders
- Counsel and educate patient and families for grief and bereavement
- Provide care to critically ill patients
- Provide care to patients in emergency and disaster situation

Skills to be developed:

UNIT - 1

Weeks: 01

ENT:

- Perform examination of ear, nose and throat
- Assist with diagnostic, therapeutic, irrigations procedures
- Instillation of drops
- Apply ear bandage
- Perform tracheostomy care
- Teach patients and families

UNIT - 2

Weeks: 01

Ophthalmology:

- Perform examination of eye

- Assist with diagnostic, therapeutic, irrigations procedures
- Apply eye bandage
- Apply eye drops/ointments
- Assist with foreign body removal
- Teach patients and families

UNIT - 3

Weeks: 01

Neurology:

- Perform neurological examination
- Use Glasgow coma scale
- Assist with diagnostic, therapeutic procedures
- Teach patients and families
- Participate in rehabilitation program

UNIT - 4

Weeks: 01

Gynecology ward:

- Assist with gynecological examination
- Assist with diagnostic, therapeutic procedures
- Teach patients and families
- Teaching self Breast Examination
- Assist with PAP smear collection

UNIT - 5

Weeks: 01

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 exercises
- Practice medical & surgical asepsis
- Counsel & teach patients and families
- Participate in rehabilitation program

UNIT - 6

Weeks: 01

Oncology Unit:

- Screen for common cancers-TNM classification
- Assist with diagnostic procedures: biopsies, pap smear, bone-marrow aspiration
- Breast examination
- Assist with therapeutic procedures
- Participates in various modalities of treatment: chemotherapy, radiotherapy, pain management, stomal therapy, hormonal therapy, immuno therapy, gene therapy, alternative therapy
- Participate in palliative care
- Counsel and teach patients families self breast examination - warning signs
- Participate in rehabilitation program

UNIT - 7

Weeks: 02

Critical care unit:

- Monitoring of patients in ICU
- Maintain flow sheet
- Care of patient on ventilators
- Perform endotracheal suction
- Demonstrate use of ventilators, cardiac monitors etc
- Collect specimens and interpret 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, intrathecal, intracardiac
- Total parenteral therapy
- Chest physiotherapy
- Perform active & passive exercises
- Counsel the patient and family in dealing with grieving and bereavement

UNIT - 8

Weeks: 01

Casualty/Emergency:

- Practice “triage”
- Assist with assessment, examination, investigations & their interpretations, in emergency and disaster situations
- Assist in documentations
- Assist in legal procedures in emergency unit
- Participate in managing crowd
- Counsel patient and families in grief and bereavement

Assignments:

- Provide care to 1, 1-2, 2-3 assigned patients
- Provide care to 2-3 assigned patients with neurological disorders
- Nursing care plan-1
- Case study/presentation/health teaching -1
- Observation reports of Burns unit, OPD, Cancer unit, Critical care unit , Emergency unit & Eye bank
- Maintain drug book

Assessment Methods:

- Assess each skill with checklist
- Assess performance with rating scale
- Evaluation of observation report of OPD/Eye bank
- Completion of activity record
- Evaluation of care plan, case study, observation report and health teaching

Internship:

Areas: Medical ward, Surgical ward, Critical care unit/ICCU, Casualty/Emergency, Operation Theatre (Eye, ENT, Neuro)

Duration: critical care unit - 01 week and duration of other ward - 02 weeks

Objectives:

- Provide comprehensive care to patients with medical and surgical conditions including emergencies
- Assist with common operations

Skills: Integrated Practice

Assignments: Assess clinical performance with rating scale

B.Sc NURSING 4YDC COURSE

Fourth Year Syllabus:

- 1. Midwifery & Obstetrical Nursing – II & Practical**
- 2. Community Health Nursing -II & Practical**
- 3. Nursing Research & Statistics**
- 4. Management of Nursing Services & Education**

Midwifery and Obstetrical Nursing - II

Placement: Fourth Year Time: Theory – 60 Hours, Practical – 180 Hours
Continuation..

UNIT – 7

Hours: 16

High-risk pregnancy- assessment & management:

- Screening and assessment: Ultrasonics, cardiotomography, NST, CST, non-invasive & invasive, newer modalities of diagnosis
- High risk approach
- Levels of care: primary, secondary & 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, gynecological 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 & cord
- Intra-uterine growth retardation
- Nursing management of mothers with high-risk pregnancy
- Maintenance of reports and records

UNIT – 8

Hours: 14

Abnormal labour – assessment and management:

- Disorders in labour: CPD and contracted pelvis, malpositions and malpresentations, premature labour, disorders of uterine actions – precipitate labour, prolonged labour.
- Complications of third stage: injuries to birth canal
- Obstetrical emergencies and their management: presentation and prolapse of cord, vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock
- Obstetrical procedures and operations: induction of labour, forceps, vaccum version, manual removal of placenta, caesarean section, destructive operations
- Nursing management of women undergoing obstetrical operations and procedures

UNIT – 9

Hours: 06

Abnormalities during postnatal periods:

- Assessment and management of woman with postnatal complications: Puerperial infections, breast engorgement & infections, UTI, thrombo-embolic disorders, post partum haemorrhage, eclampsia and subinvolution, psychological complications: post partum blues, post partum depression, post partum psychosis.

UNIT – 10

Hours: 10

Assessment and management of high risk newborn:

- Nursing management of: low birth weight babies, infections, respiratory problems, haemolytic disorders, birth injuries, malformations
- Monitoring of high risk neonates
- Feeding of high risk neonates
- Organization and management of neonatal intensive care units
- Infection control in neonatal intensive care units
- Maintenance of reports and records

UNIT – 11

Hours: 04

Pharmacotherapeutics in obstetrics:

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

Family welfare programme:

- Population trends and problems in India
- Concepts, aims, importance and history of family welfare programme
- National population: dynamics, policy and education
- National family welfare programme: RCH, ICDS, MCH safe motherhood
- Organization and administration: at national, state, district, block and village levels
- Methods of contraception: spacing, temporary and permanent, emergency contraception
- Infertility and its management
- Counseling for family welfare
- Latest research in contraception
- Maintenance of vital statistics
- Role of national, international and voluntary organizations
- Role of a nurse in family welfare programme
- Training/supervision/collaboration with other functionaries in community like ANMs, LHVs, Anganwadi workers, TBAs (traditional birth attendant)

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Practice session
- Supervised clinical practice
- Case discussion/presentation/health talk
- Explain using charts, graphs, models
- Field visits
- Drug book
- Group project
- Demonstrate using video films, scan reports, partograph etc
- Simulated practice
- Counseling session

Assessment Methods:

- Essay type
- Short answers
- Objective type
- Assessment of skills with checklist, project and field visits reports
- Assessment of patient management problem

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
PRESCRIBED BOOKS			
1.	Bennett Myles	Textbook of midwives	
2.	D.C.Dutta	Textbook of obstetrics	New Central Book Agency
3.	Dawn C.S.	Undergraduate and postgraduate textbook of Obs & Neonatology	
References			
1.	Bobak & Jensen	Maternity & Gynaecologic Nursing	Mosby
2.	Reeder Martin & etal	Maternity Nursing: women's health care	Family New born and Lippincott
3.	Olds S.B. etal	Obstetric Nursing	Addison - Wiley
4.	Betty B.Sweet	Maye's Midwifery: "A Midwives"	Textbook for Belliare Tindall

Midwifery and Obstetrical Nursing- Practical

Placement: Fourth Year

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

Areas:

- Antenatal Clinic/OPD
- Labour room O.T
- Post natal ward
- Newborn nursery
- Family planning clinic

Objectives:

- Assessment of pregnant women
- Assess woman in labour
- Carry out per-vaginal examinations
- Conduct normal deliveries
- Perform episiotomy and suture it
- Resuscitate newborns
- Assist with Caesarean Sections, MTP and other surgical procedures
- Provide nursing care to post natal mother and baby
- Counsel and teach mother family for parenthood
- Provide nursing care to newborn at risk
- Counsel for and provide family welfare services

Skills to be developed:

UNIT – 1

Weeks: 02

Antenatal Clinic/OPD:

- 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

UNIT – 2

Weeks: 04

Labour room O.T:

- Assessment of woman in labour
- Pervaginal examinations and interpretation
- Monitoring 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

UNIT – 3

Weeks: 04

Postnatal ward:

- Examination and assessment of mother and baby
- Identification of deviations
- Care of postnatal mother and baby
- Perineal care

- Lactation management
- Breast feeding
- Baby bath
- Immunization
- Teaching postnatal mother :mother craft, post natal care & immunization

UNIT – 4

Weeks: 02

Newborn nurse:

- 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 of neonatal records

UNIT – 5

(rotation on from post natal ward 1 week)

Family planning clinic:

- Counseling technique
- Insertion of IUD
- Teaching on use of family planning methods

- Arrange for and Assist with family planning operations
- Maintenance of records and reports

Assignments:

- Conduct antenatal Examinations - 30
- Case book recordings
- Conduct normal deliveries - 20
- Pervaginal examinations - 5
- Perform and Suture the episiotomies - 5
- Resuscitate newborns - 5
- Assist with Caesarean Sections - 2
- Witness abnormal deliveries - 5
- Assist with MTP and other surgical procedures - 1
- Give care to Post natal mothers - 20
- Health talks/Case study/Case Presentation/ Observation study - 1
- IUD insertion - 5
- Counselling - 2
- Simulation exercise on recording and reporting – 1

Assessment methods:

- Verification of findings of Antenatal examinations
- Assessment of clinical performance with rating scale
- Completion of case book recording
- Evaluation of case study, presentation and health education sessions
- Assessment of each skill with checklist
- Evaluation of and observation study

*** Essential Requirements for registration as midwife:**

- | | |
|---|----|
| ❖ Antenatal examination | 30 |
| ❖ Conducting normal deliveries in hospital/home/health centre | 20 |

❖ Vaginal examination	5
❖ Episiotomy and suturing	5
❖ Neonatal resuscitation	5
❖ Assist with Caesarean Section	2
❖ Witness/Assist abnormal deliveries	5
❖ Postnatal cases nursed in hospital/home/health centre	20
❖ Insertion of IUD	5

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

Internship Obstetrical Nursing:

Internship duration - 5 weeks

<u>Areas :</u>	<u>Duration(in weeks)</u>
• Labour ward with rating	02
• Neonatal intensive care unit / NICU	01
• Antenatal	02

Objectives:

- Provide comprehensive care to mothers and neonates

Skills to be developed:

- Integrated Practice

Assignments:

- Completion of other essential requirements
- Case book recordings

Assessment methods:

- Assess clinical performance scale
- Completion of case book recordings

Community Health Nursing-II

Placement: Fourth Year

Time: Theory 90 hours

Practical: 135 hours

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

Learning Objectives:

- Define concepts, scope, principles and historical development of Community health and community health Nursing
- Describe health plans, policies, various health committees and health problems in India.
- Describe the systems of delivery of community health services in rural and urban areas
- Panel discussion
- List the functions of various levels and their staffing pattern
- Explain the components of health services
- Describe alternative systems of health promotion and health maintenance.
- Describe the chain of referral system
- Describe Community health nursing approaches and concepts
- Describe the roles and responsibilities of community health nursing personnel
- Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health.
- Describe national health and family welfare programmes and role of a nurse
- Describe the various health schemes in India
- Explain the roles and functions of various national and international health agencies.

Content:

UNIT – 1

Hours: 04

Introduction:

- Definition, concept & scope of community health and community health nursing
- Historical development of community health, community health nursing – Pre independence, Post independence.

UNIT – 2

Hours: 06

Health Planning and policies and problems:

- National health planning in India – five year plans
- Various committees and commissions on health and family welfare.
 - Central Council for health and family welfare (CCH and FW)
 - National health policies (1983, 2002)
 - National population policy
- Health problems in India

UNIT – 3

Hours: 15

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, Subcentre, Primary health centre, Community health center/subdivisional, Hospitals, District, Centre
- Urban: Organization, staffing and functions of urban health services provided by government at: Slums, Dispensaries, Maternal and child health centers, Special clinics, Hospitals, Corporation/Municipality/Board.
- Components of health services: Environmental sanitation, Health education, Vital statistics, M.C.H. antenatal, natal, postnatal, MTP Act, female foeticide act, child adoption act, Family welfare, National health programmes, School

health services, Occupational health, Defence services, Institutional services.

- Systems of medicine and health care: Allopathy, Indian System of Medicine and Homeopathy, Alternative health care systems like yoga, meditation, social and spiritual healing etc.
- Referral system

UNIT – 4

Hours: 25

Community health nursing approaches, concepts, 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 and reports, Training and supervision of various categories of health workers, National health programmes, Environmental sanitation, Maternal and child health and Family welfare, Treatment of minor ailments, School health services, Occupational health, Organisation of clinics, camps: Types, preparation, planning conduct and evaluation.
- Waste management in the center, clinics etc.
- Home visit: Concept, principles, process, techniques: Bag technique home visit
- Qualities of Community health nurse
- Job description of community health nursing personnel

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 of Mile stones, Weight measurement, Social development
- Temperature and Blood pressure monitoring
- Menstrual cycle – Breast self examination
- 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 and family

D. Continue medical care and follow up in community for various diseases and disabilities.

E. Carryout therapeutic procedures as prescribed/required for self and family

F. Waste management collection and disposable of waste at home and community

G. Sensitize and handle social issues affecting health and development for self and family: Women Empowerment, Women and Child abuse, Abuse of elders, Female Foeticide, Commercial sex workers, Food adulteration, Substance abuse

H. Utilize community resources for self and family: Trauma services, Old age home, Orphanages, Home for physically and mentally challenged individuals, Homes for destitutes

UNIT – 6

Hours: 20

National health and family welfare programmes and the role of a nurse:

- National ARI programme
- Revised National Tuberculosis Control Programme (RNTCP)
- National Anti-Malaria programme
- National Filaria Control programme
- National Guinea worm eradication programme
- National Leprosy eradication programme
- National AIDS control programme
- STD control programme
- National programme for control of blindness
- Iodine deficiency disorder programme
- Expanded programme on immunization
- National Family Welfare Programme – RCH programme historical development, organization, administration, research, constraints.
- National water supply and sanitation programme
- Minimum Need Programme
- National Diabetics Control programme
- Polio Eradication : Pulse Polio Programme
- National Cancer Control Programme
- Yaws Eradication Programme
- National Nutritional Anemia Prophylaxis programme
- 20 point programme
- ICDS programme
- Mid-day meal applied nutritional programme
- National mental health programme
- Health Schemes: ESI, CGHS, Health Insurance

Health Agencies:

- 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 for child welfare, Family Planning Association of India (FPAI) Tuberculosis Association of India, Hindu Kusht Nivaran Sangh Centre! Social Welfare Board, All India women's conference, Blind Association of India etc.

Teaching and Learning Activities:

- Lecture discussion/demonstration
- Panel discussion
- Visit to various health delivery systems
- Supervised field practice
- Practice session
- Individual/group/family/community health education
- Participation in camps
- Group Project
- Participation in national health programmes
- Field visits

Assessment methods:

- Essay Type
- Short answers

BOOK LIST

Sl. No.	Prescribed Author	Title	Publisher
Community Health Nursing – II (PRESCRIBED BOOKS)			
1.	K.K. Gulani	Introduction to Community Health Nursing	
2.	Park K.	Text Book of preventive and Social Medicine	Banarsidas Bhanot
3.	TNAI	Community Health Nursing Manual	
References			
1.	K. Sunder Rao	Introduction to Community Health Nursing	
2.	Stanhope	Community Health Nursing	
3.	Hunt	Community Health Nursing	
4.	Allander J.A. & Spardley	Community Health Nursing promoting and protecting the public health	L.W.W.
5.	Sathe	Epidemiology and Management for health care for all	

Community Health Nursing-II - Practical

Placement: Fourth Year

Time: Practical 135 hours

Internship: 195 hours

Areas: Community health nursing

Duration: 1 week for urban 4 week for rural

Objectives:

- Identify community profile
- Prevalent communicable and non-communicable diseases
- Diagnose health needs of Individual, families and community
- Plan, provide and evaluate care
- Participate in school health program
- Organize group for self help and involve clients in their own health activities
- Provide family welfare services
- Counsel and educate individual, family and community
- Collect vital health statistics
- Maintain records and reports

Skills to be developed :

- Community health survey
- Community Identify
- Family care: Home adaptation of common procedures
- Home visit: Bag technique
- Organize and conduct clinics: antenatal, post natal, well baby clinic, camps etc.
- Screen manage and referrals for- high risk mothers and neonates, accidents and emergencies, illnesses: Physical and mental, disabilities

- Conduct delivery at centre/home: episiotomy and suturing
- Resuscitate newborn
- School health programme: screen, manage, refer children
- Collaborate with health and 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, physically and mentally challenged individuals etc.
- Collect and calculate vital health statistics
- Document and maintain
 - Individual, family and administrative records
 - Write reports, disease, programme.

Assignments:

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

Assessment methods:

- Assess clinical performance with rating scale
- Evaluation of community survey report, family care study, project and health talk
- Completion of activity record
- Completion of case book recording

Placement: Internship

Areas: Urban

Duration: 04 weeks

Objectives:

- Provide comprehensive care to individual, family and community

Skills to be developed:

- Integrated Practice and group project- 1 in each rural and urban

Assignments:

- Assess clinical performance with rating scale
- Evaluation of Project

Note: During the rural posting they should stay in health centers under the supervision of teachers.

Nursing Research and Statistics

Placement: Fourth Year Internship

Time: Theory 45 hours

Practical: 45 hours

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

Learning Objectives:

- Describe the concept of research, terms, need and areas of research in nursing.
- Explain the steps of research process
- Identify and state the research problem and objectives
- Review the related literature
- Describe the research approaches and designs
- Explain the sampling process
- Describe the methods of data collection
- Analyze, interpret and summarize the research data
- Explain the use of statistics, scales of measurement and graphical presentation of data
- Describe the measures of central tendency, variability and methods of correlation.
- Communicate and utilize the research findings.

Content:

UNIT – 1

Hours: 04

Research and research process:

- Introduction and need for nursing research
- Definition of Research and nursing research

- Steps of scientific method
- Characteristics of good research
- Steps of Research process - overview

UNIT – 2

Hours: 03

Research Problem/Question:

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

UNIT – 3

Hours: 03

Review of Literature:

- Location, Sources, Online search; CINHALL, COCHRANE etc.
- Purposes, Method of Review

UNIT – 4

Hours: 04

Research approaches and designs:

- Historical, survey and experimental – Qualitative and Quantitative designs.

UNIT – 5

Hours: 08

Sampling and data collection:

- Definition of Population, sample, sampling criteria, factors influencing sampling process, types of sampling techniques.
- Data- why, what, from whom, when and where
- Data collection methods and instruments: Methods of data, Questioning, Observations, record analysis and Types of instruments, Validity & Reliability of the instrument, Pilot study, Data collection procedure

UNIT – 6

Hours: 04

Analysis of data:

- Compilation, Tabulation, summarization, interpretation of data.

UNIT – 7

Hours: 15

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
- Statistical packages and its application

UNIT – 8

Hours: 04

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.

Teaching and Learning Activities:

- Lecture discussion
- Narrate steps of research process followed from examples of published studies.
- Exercise on writing statement of problem and objectives
- Exercise on reviewing one research report/article for a selected research problem
- Prepare annotated bibliography
- Explain types of research approaches used from examples of published and unpublished research studies with rationale
- Reading assignment on examples of data collection tools
- Preparation of sample data collection tool
 - Conduct group research project to collect
 - Collection, Interviewing, measurements
- Preparation of classification, presentation

- Practice on graphical presentations
- Practice on computation of measures of central tendency, variability & correlation
- Read/Presentations of a sample published/unpublished research report
- Writing group research project

Assessment Methods:

- Short Answer
- Objective type
- Sample tables
- Oral presentation
- Assessment of group Project

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
1.	Rose Marie	Foundations of Nursing Research	Pearson
2.	P. S. S. Sunder Rao	Introduction to statistics	
References			
1.	Robert Newell and Philips Bernard	"Research for Evidence based practice"	
2.	Desmond F.S. Cormark	The Research Process in Nursing	
3.	Kothari	Research Methodology : Methods and Techniques	
4.	Polit	Principles and Methods of Nursing Research	
5.	Garrett	Statistics in Psychology and Education	
6.	John Best	Research in Education	
7.	Nancy Burns	Understanding Nursing Research	

Management of Nursing Services and Education

Placement: Fourth Year

Time: Theory - 60 hours, Practical -30 hrs

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

Learning Objectives:

- Explain the principles and functions of management.
- Describe the elements and process of management.
- Describe the Management of nursing services in the hospital and Community.
- Describe the concepts, theories and techniques of organizational behaviour and human relations.
- Participate in planning and organizing in service education program.
- Describe management of nursing educational institutions.
- Describe the ethical and legal responsibilities of a professional nurse.
- Explain the nursing practice standards.
- Explain the various opportunities for professional advancement.

Content:

UNIT – 1

Hours: 04 (T)

Introduction to management in nursing:

- Definition, concepts and theories.
- Functions of management
- Principles of management
- Role of a nurse as a manager

UNIT – 2

Hours: 10 (T)

Management process:

- Planning, mission, philosophy, objectives, operational plan
- Staffing: Philosophy, study, norms, classification systems.
- Human resource management; recruiting, selecting, deployment, retaining annuation etc.,
- Budgeting: Concept, principles, types, cost
- Material management: equipment and supplies
- Directing process
- Controlling: quality,
- Program Evaluation Review
- Technique (PERT), Bench marking Activity Plan

UNIT – 3

Hours: 08 (T), 20 (P)

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 systems
 - Patients/population assignment and nursing care responsibilities
 - Staff development and welfare – Budgeting: proposal, projecting requirements for staff, equipment 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
- 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 – CD Records and reports Performance appraisal

UNIT – 4

Hours: 10 (T)

Organizational behaviour 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, interpersonal relationships and human relations
- Public relations in context of nursing
- Relations with professional associations and employee unions and collective bargaining

UNIT – 5

Hours: 05 (T), 05 (P)

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 & evaluation of staff education program
- Preparation of report

UNIT – 6

Hours: 10 (T)

Management of nursing educational institutions:

- Establishment of nursing educational institution – INC norms and guidelines
- Coordination with – Regulatory bodies, Accreditation, Affiliation philosophy/objectives: organization, Structure, Committees physical facilities, College/School, Hostel students, Selection, Admission, Guidance and Counseling, Maintaining discipline: Faculty and staff a selection, Recruitment, Job description, Placement, Performance appraisal, Development and welfare
- Budgeting
- Equipments and supplies; audio visual equipments, laboratory equipment, books, journals etc.,
- Curriculum; Planning, implementation and evaluation
- Clinical facilities, transport facilities
- Institutional records: administrative, faculty

UNIT – 7

Hours: 10 (T)

Nursing as a profession:

- Nursing as a profession
 - Philosophy; nursing practice, Aims and objectives, Characteristics of a professional nurse, Regulatory bodies, INC, SNC Acts: - constitution, functions, Current trends and issues in nursing
- Professional ethics:
 - Code of ethics, INC, ICN, and Code of Professional conduct: INC.ICN.

- Practice standards for nursing; INC
- Consumer protection act, Legal aspects in nursing
 - Legal terms related to practice; registration and licensing
 - Laws related to nursing practice; Breach and penalties
 - Malpractice and negligence

UNIT - 8

Hours: 03 (T), 05 (P)

Professional Advancement:

- Continuing education, career opportunities, collective bargaining
- Membership with professional organizations; National and International
- Participation in research activities
- Publications; Journals, newspapers etc.

Teaching and Learning Activities:

- Lecture discussion
- Explain using organization chart
- Simulated Exercises
- Case studies
- Staffing activities, patient scheduling, Promoting, Super benefit analysis, audit (Leading) management, (Gantt Chart)
- Demonstration
- Supervised practice in ward-writing, indents, preparing duty roster, ward supervision
- Assignment on duties and responsibilities of ward sister
- Writing report classification
- Role plays, Group games, Self assessment, Case discussion Practice session.
- Plan & conduct an educational session for in-service nursing personnel.
- Counseling session, Group exercises and reports, Staff and students
- Panel discussion, Critical incidents

- Visit to INC/ SNRC
- Review / Presentation of published articles
- Group work on maintenance of bulleting board.

Assessment methods:

- Short Answers
- Essay type
- Objective type
- Assessment of problem solving exercises
- Assessment of assignments
- Performance evaluation by ward sister with rating scale
- Assess the planning and conduct of the educational session
- Assessment of critical incidents.

BOOKS LIST

Sl. No.	Prescribed Author	Title	Publisher
1.	Goddard N.A.	Principles of Administration applied to Nursing Service	
2.	Jean Barrett	Ward Management and Teaching	Konark
3.	Marriner J. Ann	Guide to Nursing Management and Leadership	Mosby
4.	Francis Metal	Hospital Administration	
References			
1.	Rowland & Rowland	Nursing Administration Handbook	
2.	Malealm	Hospital Organization and Management	
3.	Alexander	Nursing Service Administration	
4.	Stone Sandra etal	Management for Nurses	
5.	Patel	Nursing Administration A system approach	
6.	Gillies D.A.	Nursing Management A system approach	W.B. Sanders
7.	Heidgarken	Teaching and Learning in Schools of Nursing Principles and Methods	Konark
8.	Grant Colin	Hospital Management	
9.	TNAI	Nursing Administration and Management	

The Andhra Pradesh Gazette Notification regarding prohibition of Ragging
THE ANDHRA PRADESH GAZETTE
PART-IV.B. EXTRAORDINARY
PUBLISHED BY AUTHORITY

No.36] HYDERABAD, THURSDAY, AUGUST 21, 1997

ANDHRA PRADESH ACTS, ORDINANCES AND REGULATIONS Etc.

The following Act of the Andhra Pradesh Legislative Assembly received the assent of the Governor on the 19th August, 1997 and the said assent is hereby first published on the 21 at August, 1997 in the Andhra Pradesh Gazette for general information.

ACT No. 26 of 1997

AN ACT TO PROHIBIT RAGGING IN EDUCATIONAL INSTITUTIONS IN THE STATE OF ANDHRA PRADESH.

Be it enacted by the Legislative Assembly of the State of Andhra Pradesh in the Forty-eighth year of the Republic of India, as follows:-

1. (1) This Act may be called the Andhra Pradesh Prohibition of Ragging Act, 1997.
(2) It extends to the whole of the State of Andhra Pradesh.
(3) It shall be deemed to have come into force with effect from 4th July.
2. In this act, unless the context otherwise requires:-
 - a) 'act' includes words either spoken or written or signs or sounds or gestures of visible representations;
 - b) 'Educational Institution' means and includes a college, or other institution by whatever name called, carrying on the activity or imparting education therein (either exclusively or among other activities); and includes an orphanage or boarding home or hostel or tutorial institution or any other premises attached thereto.
 - c) 'government' means the State Government of Andhra Pradesh.
 - b) 'notification' means the notification published in the Andhra Pradesh Gazette and the word 'notified' shall be construed accordingly;

Short title, extent and commencement

Definitions.

e) 'ragging' means doing an act which causes 'or is likely' to cause insult or annoyance of fear or apprehension or threat or intimidation or outrage of modesty' or injury to a student.

f) 'student' means a person who is admitted to an educational institution. And whose name is lawfully borne on the attendance register thereof;

g) All words and expressions used but not defined in this Act shall have the meanings assigned to them under the Andhra Pradesh Education Act, 1982 or Indian Penal Code, 1660 respectively.

**A.P. Act 1 of 1982
Central Act
45 of 1980.**

**Prohibition of
Ragging.**

**Penalty for
Ragging.**

3. Ragging within or outside any educational institution is prohibited.

1. Whoever, with the intention of causing ragging or with the knowledge that he is likely by such act to cause ragging, commits or abets ragging and thereby.

- i. teases or embarrasses or humiliates a student shall be punished with imprisonment for a term which may extend to six months or with fine which may extend to one thousand rupees or with both; or
- ii. assaults or uses criminal force to or criminally intimidates, a student shall be punished with imprisonment for a term 'which' may extend to one year or with fine which may extend to two thousand rupees or with both; or
- iii. wrongfully restrains or wrong fully confines or causes hurt to a student shall be punished with imprisonment for a term which may extend to two years or with fine which may extend to five thousand rupees or with both; or
- iv. causes grievous hurt to or kidnaps or abducts of rapes or commits unnatural offence with a student shall be punished with imprisonment for a term 'which 'may extent to five years and with fine which may extend to ten thousand rupees; or
- v. causes death of abets suicide shall be punished with imprisonment for life or with imprisonment for a term which may extend to ten years and with a fine which may extend to fifty thousand rupees.

**Dismissal of
student.**

2. (1) A student convicted of an offence under section 4 and punished with imprisonment for a term shall be dismissed from the educational institution.
(2) A student convicted of an offence under section 4 and punished with imprisonment for a term of more than six months shall not be admitted in any other educational institution.
3. (1) Without prejudice to the foregoing provisions, whenever any student complains of ragging to the head or manager of an educational institution, such head or manager shall inquire into or cause an inquiry to be made into the same forthwith and if the complaint is prima-facie found true, shall suspend the student or students complained against for such period as may be deemed necessary.
(2) The decision of the head or manager of the educational institution under sub-section (1) shall be final.
4. (1) If the head or the manager of an educational institution fails or neglects to take action in the manner specified in sub-section (1) of section 6, such person shall be deemed to have abetted the offence and shall be punished with the punishment provided for the offence.
(2) If a student commits suicide due to or in consequence of ragging, the person who commits such ragging shall be deemed to have abetted such suicide.
5. The provisions of this Act shall be in addition to and not derogatory of any law for the time being in force.
6. (1) The Government may by notification, make rules for carrying out all or any of the purposes of this Act.
(2) Every rule made under this Act shall immediately after it is made, be laid before the Legislative Assembly of the State, if it is in session and if it is not in session, in the session immediately following for a total period of fourteen days which may be comprised in one session or in two successive sessions, and if, before the expiration of the session in which it is so laid or the session immediately following the Legislative Assembly agrees in making any modification in the rule or in the annulment

Suspension of student.

Abetment.

Other laws not affected.

Power to make rules.

of the rule, the rule shall, from the date on which the modified form or shall stand annulled as the case may be so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that rule.

10. The Andhra Pradesh Prohibition of Ragging Ordinance, 1997 is hereby Repealed.

**Repeal of
ordinance
12 of 1997.**

G.BHAVANI PRASAD,
Secretary to Government,
Legislative Affairs & Justice,
Law Department.

