

**PONDICHERRY UNIVERSITY**

**B.Sc. NURSING (4 YEARS PROGRAM)**

**SYLLABUS AND REGULATIONS**

**(2008 - 2009 ONWARDS)**

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## **Philosophy**

We believe that:

Health is a state of well- being that enables a person to lead a psychologically, socially and economically productive life. Health is a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National Health Policies and programmes. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professional and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological and behavioural sciences, medicine and nursing.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behaviour among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups.

Undergraduate nursing program is broad based education within an academic framework specifically directed to the development of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self directed learning and foster an attitude of life long learning.

Under graduate nursing education program prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

## **Aim**

The aim of the undergraduate nursing program is to:

- \*Prepare graduates to assume responsibilities as professionals, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative services,
- \*Prepare nurses who can make independent decisions in nursing situations, protect the rights of and facilitate individuals and groups in pursuit of health, functions in the hospital, community nursing services, and conduct research studies in the areas of nursing practice.
- \*They are also expected to assume the role of teacher, supervisor, and manager in a clinical / public health settings.

## **Objectives**

On completion of four year BSc. 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.
2. Demonstrate understanding of life styles and other factors, which affect health of individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with individuals and groups.
4. Demonstrate critical thinking skill 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 frame work of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups, and members of the health team in order to promote effective inter personal relationship and team work.
9. Demonstrate skills in teaching to individuals and groups in clinical and community health settings.
10. Participate effectively as members 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.

# Admission Requirements

1. The minimum age for admission shall be 17 years on or before 31<sup>st</sup> dec. of the year of admission.

2. The minimum educational requirements shall be the passing of:

Higher Secondary school certificate Examination(12years course),

Or

Senior School certificate Examination (10+2), pre-degree Examination(10+2)

Or

An equivalent with 12 years schooling from a recognized board or university with science ( Physics, Chemistry, Biology) with minimum 50 % aggregate marks and English as a subject.

3. Candidate shall be Medically Fit.

## **Entrance/Selection test**

Selection of the candidates should be based on the merit of the entrance examination held by university or competent authority or as per regulation of the University from time to time.

## **Duration**

Duration of the course shall be four years including internship

Week available per year- 52 Weeks

## **Vacation**

8 weeks vacation shall be given in each year.

Gazetted holidays-3 weeks

**Examination(including preparation)- 4 weeks**

## **Others**

Remaining Available Weeks- 37 Weeks

Hours per week—40 hours

Hours available per academic year-1480(37weeks x 40 hours) (For 2 semesters)

**PONDICHERRY UNIVERSITY**  
**Puducherry**

**REGULATIONS OF THE UNIVERSITY**

**I. SHORT TITLE AND COMMENCEMENT**

These regulations shall be called “THE REGULATIONS FOR THE **BACHELOR OF NURSING DEGREE COURSE** OF PONDICHERRY UNIVERSITY, Puducherry”.

They shall come into force from the academic year 2008-2009 session.

The regulation and syllabi are subject to modifications by the standing Under Graduate Board of Studies for Nursing course from time to time.

**II. REGULATIONS**

**1. ELIGIBILITY FOR ADMISSION:**

Candidates should have a pass in the Higher Secondary Examination (academic) conducted by the Board of Higher Secondary Examination of Tamil Nadu, or any other equivalent examination accepted by the University, thereto with a minimum of 50% marks (40% marks for SC,ST,MBC,OBC candidates) in part – III subjects of Physics, Chemistry & Biology / Botany & Zoology) and should have English as one of the subjects.

**2. DURATION OF THE COURSE AND COURSE OF STUDY:**

The period of certified study and training of the B.Sc. Nursing Degree course shall be of Four academic years consists of eight semesters.

**3. MEDIUM OF INSTRUCTION:**

English shall be the medium of instruction for all the subjects of study and for examination of the Course.

**4. MINIMUM WORKING DAYS IN AN ACADEMIC YEAR:**

Each academic year shall consist of not less than 180 working days (Minimum 90 working days per semester).

**5. REGISTRATION:**

A Candidate admitted into B.Sc, Nursing Degree course in any one of the affiliated institutions of the PONDICHERRY UNIVERSITY, Puducherry shall submit the prescribed application form for registration duly filled along with prescribed fee and declaration in the format, to the Academic Officer of the cut-off date prescribed for admission.

**6. ATTENDANCE REQUIRED FOR APPEARING EXAMINATION:**

a). Examination will be conducted in both theory and practical as prescribed. Candidates will be permitted to appear for the University Examinations in the subject, only if they secure not less than 80% of attendance in each subject of the respective semester / year.

b). A student who does not meet the minimum attendance requirement in a semester or year must repeat the course along with the next batch of students.

#### **7. CONDONATION FOR LACK OF ATTENDANCE:**

Condonation of shortage of attendance in aggregate up to 10% (between 70% and 80%) in each semester may be granted by the College Academic Committee and as per the regulations of University.

#### **8. INTERNAL ASSESSMENT:**

Internal assessment will be done in each subject of study and the marks will be awarded to the candidates as detailed in the scheme of examinations. The marks awarded will be on the basis of the candidate's performance in the assignments, class tests, practical test in the clinical areas as assessed by the teachers.

#### **9. EXAMINATIONS:**

- a). The University Examinations will be conducted in the semester pattern for all the four years, each year consisting of two semesters.
- b). The particulars of subjects for various examinations and distribution of marks are detailed in the Scheme of Examination.
- c). The examination for the main subjects will be conducted by the University and the marks for the internal exams subjects will be awarded by the subject handling faculty and forwarded to University by the concerned college.
- d). The Pondicherry University Practical Examinations shall be jointly conducted by one internal and one external examiner duly appointed by the University.

#### **10. ELIGIBILITY / MAXIMUM DURATION FOR THE AWARD OF THE DEGREE:**

- a). The candidates shall be eligible for the Degree of Bachelor of Nursing when they have undergone the prescribed course of study for a period of not less than four years in an institution approved by the University and have passed the prescribed examinations in all subjects.
- b). The maximum period to complete the course successfully should not exceed a period of eight years.

#### **11. MARKS REQUIRED FOR A PASS:**

50% of marks in the University Theory examination.  
50% marks in the University Practical examination.  
50% of marks in Internal Examination both in each Theory, Practical, Viva-voce examination.

#### **12. DECLARATION OF CLASS:**

A successful candidate obtaining 75% and more marks in the grand total aggregate in the first attempt shall be declared to have passed with **Distinction**.

A successful candidate obtaining 60% and more but less than 75% of marks in the grand total aggregate shall be declared to have passed with **First Class**.

A successful candidate obtaining 50% and more but less than 60% of marks in the grand total aggregate shall be declared to have passed with **Second Class**.

Ranks shall be declared on the basis of the aggregate marks obtained by a candidate in the University Examination subjects of the course. Only those candidates who have passed all the subjects in all examination in the first attempt shall be eligible for the award of **Rank**.

<b>COURSE OF INSTRUCTION</b>					
<b>BASIC B.SC.(NURSING) SYLLABUS ( NEW REGULATION) REVISED</b>					
Sl.No.	Subject	Theory (Hours)	Practical (Hours)		Others (Hours)
			Lab	Clinical	
<b>I SEMESTER</b>					
1	English	60	-	-	-
2	Sociology	60	-	-	-
3	Nursing foundation – I	130	100	200	-
4	Psychology	60	-	-	-
5	Introduction to computers	15	30	-	-
6	Library/Self study	-	-	-	25
7	Co-curricular activities	-	-	-	25
<b>Total 705</b>		<b>325</b>	<b>130</b>	<b>200</b>	<b>50</b>
<b>II SEMESTER</b>					
1	Anatomy and	60	-	-	-
2	Physiology	60	-	-	-
3	Nursing foundation – II	135	100	250	-
4	Nutrition and biochemistry(60+30)	90	-	-	-
5	Library/Self study	-	-	-	25
6	Co-curricular activities	-	-	-	25
7	Regional Language	30	-	-	-
<b>Total 775</b>		<b>375</b>	<b>100</b>	<b>250</b>	<b>50</b>
<b>III SEMESTER</b>					
1	Community Health Nursing I	90	-	135	-
2	Microbiology	45	15	-	-
3	Pharmacology and	45	-	-	-
4	Pathology and	30	-	-	-
5	Genetics	15	-	-	-
6	Medical Surgical Nursing I	100	-	300	-
7	Library/Self study	-	-	-	20
8	Co-curricular activities	-	-	-	25
<b>Total - 820</b>		<b>325</b>	<b>15</b>	<b>435</b>	<b>45</b>
<b>IV SEMESTER</b>					
1	Medical Surgical Nursing I (Adult + Geriatrics)	110	-	650	-
2	Self Study/ Library	-	-	-	25
3	Co-curricular activities	-	-	-	20
<b>Total - 805</b>		<b>110</b>	<b>0</b>	<b>650</b>	<b>45</b>
<b>V SEMESTER</b>					
1	Medical Surgical Nursing - II	120	-	470	-
2	Mental Health Nursing	45	-	100	-
3	Library/Self study	-	-	-	25
4	Co-curricular activities	-	-	-	25
<b>Total - 785</b>		<b>165</b>	<b>0</b>	<b>570</b>	<b>50</b>
<b>VI SEMESTER</b>					
1	Community Health Nursing II	90	-	330	-
2	Mental Health Nursing	45	-	265	-
3	Library/Self study	-	-	-	25
4	Co-curricular activities	-	-	-	25
<b>Total - 780</b>		<b>135</b>	<b>0</b>	<b>595</b>	<b>50</b>
<b>VII SEMESTER</b>					
1	Child Health Nursing	90	-	420	-
2	Management Nursing Service and Education	65	-	25	-
3	Communication and Educational Technology	60	-	30	-
4	Library/Self study	-	-	-	25
5	Co-curricular activities	-	-	-	25
<b>Total - 740</b>		<b>215</b>	<b>0</b>	<b>475</b>	<b>50</b>
<b>VIII SEMESTER</b>					
1	Mid-wifery	90	-	600	-
2	Nursing Research & Statistics	45	-	45	-
<b>Total - 780</b>		<b>135</b>	<b>0</b>	<b>645</b>	<b>0</b>



**REVISED SCHEME OF EXAMINATION**

Sl.No	Semester	Subject	Subject Code	UE Max.	UE Min.	I A	IA Min.	Total Min.	Total Max.
1	I	English	T 14 (1)	75	30	25	10	40	100
2	I	Sociology	T33(1)	75	38	25	12	50	100
3	I	Psychology	T 12 (1)	75	38	25	12	50	100
4	I	Nursing Foundation I	T 11 (1)	75	38	25	12	50	100
5	I	Introduction to computer	New	-	-	100	50	50	100
6	II	Nursing Foundation II	T 21 (1)	75	38	25	12	50	100
7	II	Nursing Foundation-ii practical II	P 21 (1)	100	50	100	50	100	200
8	II	Anatomy and physiology(37+38)	T 22 (1)	75	38	25 (12+13)	12	50	100
9	II	Nutrition and biochemistry(45+30)	T13(1)	75	38	25(15+10)	12	50	100
10	III	Community Health Nursing I	T 31 (1)	75	38	25	12	50	100
11	III	Microbiology	T 32 (1)	75	38	25	12	50	100
12	III	Pharma, Pathology and Genetics	T 24 (1)	75 (38+25+12)	38	25 (13+8+4)	12	50	100
13	IV	Medical Surgical Nursing I	T 41 (1)	75	38	25	12	50	100
14	IV	Medical Surgical Nursing I Practical and Viva-voce	P 41 (1)	100	50	100	50	100	200
15	V	Medical Surgical Nursing II	T 52 (1)	75	38	25	12	50	100
16	V	Medical Surgical Nursing II Practical and Viva-voce	P 52 (1)	50	25	50	25	50	100
17	VI	Community Health Nursing II	T 62 (1)	75	38	25	12	50	100
18	VI	Community Health Nursing II Practical and Viva-voce	P 62 (1)	50	25	50	25	50	100
19	VI	Mental Health Nursing	T 51 (1)	75	38	25	12	50	100
20	VI	Mental Health Nursing Practical and Viva-voce	P 51 (1)	50	25	50	25	50	100
21	VII	Child Health Nursing	T 61 (1)	75	38	25	12	50	100
22	VII	Child Health Nursing Practical and Viva-voce	P 61 (1)	50	25	50	25	50	100
23	VII	Management of Nursing Service & Education	T 72 (1)	75	38	25	12	50	100
24	VII	Communication and Educational Technology	New	75	38	25	12	50	100
25	VIII	Mid wifery & Obstetrical Nursing	T 81 (1)	75	38	25	12	50	100
26	VIII	Mid wifery & Obstetrical NursingPractical & Viva voce	P 81 (1)	50	25	50	25	50	100
27	VIII	Nursing Research and Statistics (50+25)	T 42 (1)	75 (50+25)	38	25 (15+10)	12	50	100

## **NOTE**

1. Anatomy and Physiology-Question paper will consist of Section A Anatomy of 37 marks and B Physiology should be of 38 marks.
2. Nutrition and Biochemistry and Question paper will consist of Section A Nutrition of 45 marks and Section B of Biochemistry of 30 marks.
3. Pharmacology, genetics, pathology: section A of Pharmacology with 38 marks, Section B of Pathology of 25 and Genetics with 12 marks.
4. Nursing Research & Statistics-Nursing Research should be of 50 marks and statistics of 25 marks.
5. Minimum pass marks shall be 40% for English only.
6. Minimum Pass marks for all other subjects shall be 50% in each of the Theory and Practical papers separately.
7. Theory and Practical exams for Introduction to computer to be conducted as college exam and marks to be sent to the University for Inclusion in the mark 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 complete 100% of hours notified in each of the practical areas before award of degree.
10. A candidate has to pass in theory and practical exam separately in both internal and external of each paper.
11. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and practical).
12. Maximum number of attempts permitted for each paper is 3 including first attempt.
13. A candidate should not be promoted to the fifth and eighth semester unless the candidate has passed all the previous semesters.(fourth and seventh semester are gate semester)
- 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. (Nursing) in concerned subject and minimum of 3 years of teaching experience. To be an examiner for nursing foundations course faculty having M.Sc. (Nursing) with any specialty shall be considered.

# English

Placement – FIRST SEMESTER

Time : Theory-60 Hrs.

**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.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I.	10	*Speak and write grammatically correct English	*Review of Grammar *Remedial study of Grammar *Building Vocabulary *Phonetics *Public Speaking	*Demonstrate use of dictionary *Class-room conversation *Exercise on use of Grammar *Practice in public speaking	*Objective Type *Fill in the blanks *Para phrasing
II.	30	* Develop ability to read, understand and express meaningfully, the prescribed text	* Read and comprehend prescribed course books	*Exercise on: -Reading -Summarizing -Comprehension	*Short Answers *Essay Types
III.	10	*Develop writing skills	*Various forms of composition -Letter writing -Note taking -Precis writing -Nurses notes -Anecdotal records -Diary writing -Reports on health problems etc. -Resume/CV	*Exercises on writing -Letter writing -Nurses notes -Precis -Diary -Anecdote -Health problems -Story writing -Resume/CV *Essay writing -Discussion on written reports/ documents	*Assessment of the skills based on the check list
IV.	6	*Develop skill in spoken English	* <b>Spoken English</b> -Oral report -Discussion -Debate -Telephone conversation	*Exercise on: -Debating -Participating in seminar, panel, symposium -Telephonic conversation	*Assessment of the skills based on the check list

<b>Unit</b>	<b>Time (Hrs)</b>	<b>Learning Objectives</b>	<b>Content</b>	<b>Teaching Learning Activities</b>	<b>Assessment methods</b>
V.	4	*Develop skill in listening comprehension	* <b>Listening Comprehension</b> -Media, audio, video, speeches etc.,	*Exercise on: -Listening to audio, video tapes and identify the key points	*Assessment of skills based on the check list

**References:**

1. David (MT), English for Professional Nursing, BI Publications Pvt. Ltd., Chennai, 2007.
2. Koorkkakala (T), Communicative English for BSc., Nursing Students, KJ Publications, Kerala, 2007.

# Sociology

**Placement:** FIRST SEMESTER

**Time:** Theory 60 Hrs.

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
I.	1	*State the importance of sociology in Nursing	<b>Introduction</b> *Definition of Sociology *Nature and Scope of the discipline *Importance and application of Sociology in Nursing	*Lecture Discussion	*Essay type *Short answers
II.	3	*Describe the inter-relationship of individual in society and community	<b>Individual &amp; Society</b> *Society and Community *Nature of Society *Difference between Society and Community *Process of Socialization and individualization *Personal disorganization	*Lecture Discussion	*Essay type *Short answers
III.	3	*Describe the influence of culture and on health and disease	<b>Culture</b> *Nature of culture *Evolution of culture *Diversity and uniformity of culture *Trans cultural society *Influence on health and disease	*Lecture Discussion *Panel Discussion	*Essay type *Short Answers

IV.	4	*Identify various social groups and their interactions	<b>Social groups and Processes</b> *The meaning and classification of groups *Primary & Secondary Group *In-group V/s. Out-group, Class Tribe, Caste *Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction & Social Processes. *Co-operation, Competition, Conflict *Accommodation, Assimilation & Isolation	*Lecture Discussion	*Essay type *Short answers
V.	6	*Explain the growth of population in India and its impact on health	<b>Population</b> *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 programs	*Lecture Discussion *Community identification	*Essay type *Short answers *Assessment of report on community identification
VI.	5	*Describe the institutions of family and marriage in India	<b>Family and marriage</b> *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	*Lecture Discussion *Family Case study	*Essay type *Short answers *Assessment of family case study

VII.	7	* Describe the class and caste system and their influence on health and health practices	<b>Social Stratification</b> *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	*Lecture Discussion *Community survey	*Essay type *Short answers *Assessment of report on community survey
VIII	6	Describe the types of communities in India, their practices and the impact on health	<b>Types of Communities in India (Rural, Urban and Regional)</b> *Features of village community & Characteristics of Indian village 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	*Lecture Discussion *Visits to rural and urban community *Community survey	*Essay type *Short answers *Assessment of report on community survey
IX	4	Explain the process of Social Change	<b>Social Change</b> *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	*Lecture Discussion	*Essay type *Short Answers

X	4	Describe the Social system and inter – relationship of social organizations	<b>Social organization and social system</b> *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	*Lecture Discussion *Observation visits	*Essay type *Short Answers *Assessment of visit report
XII	15	*Describe the role of the nurse in dealing with social problems in India	<b>Social Problems</b> *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 programs in India *Role of nurse	*Lecture Discussion *Institutional visits	*Essay type *Short answers *Assessment of visit reports



## **Bibliography**

### **Textbook:**

1. Bhushan (V), Introduction to Sociology, Kitab Mahan, 2002.

### **Suggested References:**

1. Madan (GR), Indian Social Problems, Allied Publishers, Chennai.
2. Mehta (SA), Study of Rural Sociology in India, Chand & Co.
3. Ogburn (F), Handbook of Sociology, Eurasoa Publishing, New Delhi.
4. Majmudar (DN), An Introduction to Social Anthropology, Asia Publishing House, Bombay.
5. Indrani (TK), Textbook of Sociology for Nurses, Jaypee Brothers, New Delhi, 2006.
6. Neeraja (KP), Textbook of Sociology for Nursing Students, Jaypee Brothers, New Delhi, 2005.
7. Rao (SD), Psychology and Sociology for Paramedicals, Jaypee Brothers, New Delhi, 2006

# Psychology

**Placement:** FIRST SEMESTER

**Time:** Theory 60 Hrs.

**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.

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
I	2	*Describe the history, scope and methods of psychology	<b>Introduction:</b> *History and origin of science of psychology *Definition and Scope of psychology *Relevance to nursing *Methods of Psychology	*Lecture Discussion	*Essay type *Short answers
II	4	*Explain the biology of Human behaviour	<b>Biology of behaviour</b> *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	*Lecture Discussion	*Esasay type *Short answers

III	20	*Describe various cognitive processes and their applications	<b>Cognitive Processes</b> *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	*Lecture Discussion *Psychometric assessment *Practice sessions	*Essay type *Short answers
IV	8	*Describe motivation, emotions, stress, attitudes and their influence on behaviour	<b>Motivation and Emotional Processes:</b> *Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, Conflicts and frustration, conflict resolution *Emotion & Stress - Emotion: Definition, components, Changes in emotions, theories, emotional adjustments, emotions in health and illness - Stress: Stressors, cycle, effect, adaptation & coping *Attitude: Meaning, nature, development, factors affecting - Behaviour and attitudes - Attitudinal change *Psychometric assessments of emotions and attitudes *Alterations in emotions *Applications	*Lecture Discussion *Role plays *Case discussion *Demonstration	*Essay type *Short answers

V	7	*Explain the concepts of personality and its influence on behaviour	<b>Personality</b> *Definitions, Topography, Types, Theories *Psychometric assessments of personality *Alterations in personality *Applications	*Lecture Discussion *Demonstration	*Essay type *Short answers
VI	7	*Describe the psychology of people during the life cycle	<b>Developmental Psychology</b> *Psychology of people at different ages from infancy to old age *Psychology of vulnerable individuals – challenged, women, sick, etc., *Psychology of groups	*Lecture Discussion *Case Discussion	*Essay type *Short answers
VII	8	Describe the characteristics of Mentally Healthy person Explain Ego defence mechanisms	<b>Mental Hygiene and Mental Health</b> * 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	*Lecture Discussion *Case Discussion * Role play *Demonstration	*Essay type *Short answers
VIII	4	*Explain the Psychological assessments and role of nurse	<b>Psychological assessment &amp; tests</b> *Types, Development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment	*Lecture Discussion *Demonstration *Practice sessions	Assessment of practice

## **Bibliography**

### **Textbook:**

1. Morgon (CT), Introduction to Psychology, Tata McGraw Hill, New Delhi, 20<sup>th</sup> edition, 2003.

### **Suggested References:**

1. Atkinson (RL), Hilgard's Introduction to psychology, Harcourt college publishers, Philadelphia, 13<sup>th</sup> edition, 2000.
2. Shelley, Taylor's Health Psychology, Tata McGraw hill publishing co. Ltd, Sidney, 6<sup>th</sup> Edition 2006.
3. Santrock (JW), Educational Psychology, Tata McGraw Hill Pub. Co. Ltd., Sidney 2006.
4. Fernald (L.D) Introduction to Psychology A.I.T.B.S. Pub. New Delhi 2006.
5. Mangal (SK), Advanced Educational Psychology, Pentice Hall of India, New Delhi, 2<sup>nd</sup> Edition, 2006.
6. Gross (R), Psychology for Nurses and Allied Health Professionals, Hodder Arnold, London, 2007.

# Introduction to Computers

**Placement:** FIRST SEMESTER

**Time:** Theory 15 Hrs.  
Lab 30 Hrs.

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

Unit	Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
I	3		*Identify & define various concepts used in computer in nursing *Identify application of computer in nursing	<b>Introduction:</b> *Concepts of Computers *Hardware and software trends and technology *Application of computers in nursing	*Lecture Discussion *Demonstration	*Short answers *Objective Type
II	6	20	*Describe and Use the Disk Operating System *Demonstrate skill in the use of MS Office	*Introduction to disk operating system -DOS -Windows (all version) *Introduction -MS Word -MS-Excel with pictorial presentation -MS-Access -MS-Power point	*Lecture Discussion *Demonstration *Practice session	*Short answers *Objective type *Practical Exam
III	2	3	*Demonstrates skill in using multi-media *Identify features of computer aided teaching and testing	*Multimedia: Types and uses *Computer aided teaching and testing	*Lecture Discussion *Demonstration	*Short answers *Objective type *Practical exam & Viva Voce
IV	1	3	*Demonstrate use of internet & Email	*Use of Internet and: e-mail	*Lecture Discussion *Demonstration *Practice session	*Short answers *Objective type *Practical exam & Viva Voce

Unit	Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
V	2	2	*Describe and use the statistical packages	*Statistical packages: Types and their Features	*Lecture Discussion *Demonstration *Practice Session	*Short answers *Objective type *Practical exam & Viva Voce
VI	1	2	*Describe the use Hospital Management System	*Hospital Management System: Types and Uses	*Lecture Discussion *Demonstration	*Short answers *Objective type *Practical exam & Viva Voce

### **Bibliography**

#### **Textbook:**

1. Jain (NC), Computer for Nurses, AITBS Publishers

# Nursing Foundations –I

**Placement:** FIRST SEMESTER

**Time:** Theory :130 Hrs.

Lab :100 Hrs.

Clinicals:200 Hrs.

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

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment methods
I	10	*Describe the concept of Health, Illness and Health care agencies	<b>Introduction</b> *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, Organization and Functions *Health promotions and levels of disease prevention *Primary Health Care and its delivery: Role of nurse	*Lecture Discussion *Visit to Health care agencies	*Essay type *Short answers *Objective type
II	16	*Explain concept and scope of nursing *Describe values, code of ethics and professional conduct for nurses in India	<b>Nursing as a profession</b> *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	*Lecture Discussion *Case discussion *Role Plays	*Essay type *Short answers *Objective type



Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>-Nursing as a profession</li> <li>-History of nursing in India</li> <li>*Values: Definition, Types, Values clarification and values in professional Nursing: Caring and Advocacy</li> <li>*Ethics: <ul style="list-style-type: none"> <li>-Definition and ethical principles</li> <li>-Code of ethics and professional conduct for nurses</li> </ul> </li> </ul>		
III	4	<ul style="list-style-type: none"> <li>*Explain the admission and discharge procedure</li> <li>*Perform the admission and discharge procedure</li> </ul>	<p><b>Hospital Admission and Discharge</b></p> <ul style="list-style-type: none"> <li>*Admission to the hospital <ul style="list-style-type: none"> <li>-Unit and its preparation: Admission bed</li> <li>-Admission procedures</li> <li>-Special considerations</li> <li>-Medico- legal issues</li> <li>-Roles and responsibilities of the nurse</li> </ul> </li> <li>*Discharge from the hospital <ul style="list-style-type: none"> <li>-Types: Planned discharge, LAMA and abscond, Referrals and Transfers.</li> <li>-Discharge Planning</li> <li>-Discharge Procedures</li> <li>-Special considerations</li> <li>-Medico-legal issues</li> <li>-Roles and responsibilities of the nurse</li> <li>-Care of the unit after discharge</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Demonstration</li> <li>*Lab practice</li> <li>*Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> </ul>
IV	10	<ul style="list-style-type: none"> <li>*Communicate effectively with patient, families and team members and maintain effective human relations (projecting professional image)</li> <li>*Appreciate the importance of patient teaching in nursing</li> </ul>	<p><b>Communication and Nurse Patient relationship</b></p> <ul style="list-style-type: none"> <li>*Communication : Levels, Elements, Types, Modes, Process, Factors influencing Communication</li> <li>Methods of effective communication: <ul style="list-style-type: none"> <li>-Attending skills</li> <li>-Rapport building skills</li> <li>-Empathy skills</li> <li>-Barriers to effective communication</li> </ul> </li> <li>*Helping relationships(NPR):Dimensions of Helping Relationships, Phases of a Helping Relationship</li> <li>*Communicating effectively with</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Role play and video film on the nurses interacting with the patient</li> <li>*Practice session on patient teaching</li> <li>*Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> </ul>

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<p>patients, 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)</p> <p>*Patient teaching: Importance, Purposes, Process, Role of Nurse and Integrating teaching in Nursing Process</p>		
V	15	<p>*Explain the concept, uses, format and steps of nursing process</p> <p>*Documents nursing process as per the format</p>	<p><b>The Nursing Process</b></p> <p>*Critical Thinking and Nursing Judgment</p> <p>-Critical Thinking: Thinking and Learning</p> <p>-Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing</p> <p>*Nursing Process Overview: Application in Practice</p> <p>- Nursing process format: Current format, INC</p> <p>Assessment:</p> <p>- Collection of Data: Types, Sources, Methods</p> <p>- Formulating Nursing judgment: Data interpretation</p> <p>Nursing Diagnosis:</p> <p>- Identification of client problems</p> <p>- Nursing diagnosis statement</p> <p>- Difference between medical and nursing diagnosis</p> <p>Planning:</p> <p>- Establishing priorities</p> <p>- Establishing goals and expected outcomes</p> <p>- Selection of interventions: Protocols and Standing orders</p> <p>- Writing the Nursing care plan</p> <p>Implementation:</p> <p>- Implementing the plan of care</p> <p>Evaluation:</p> <p>- Outcome of care</p> <p>- Review and Modify</p> <p>Documentation and Reporting</p>	<p>*Lecture</p> <p>Discussion</p> <p>*Demonstration</p> <p>*Exercise</p> <p>*Supervised clinical practice</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p>

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VI	4	Describe the purposes, types and techniques of recording and reporting	<b>Documentation and Reporting</b> *Documentation: Purposes of Recording and reporting *Communication within the Health Care Team *Types of records: ward records, medical / nursing records *Common record keeping forms, computerized documentation *Guidelines for reporting: Factual basis, Accuracy, Completeness, Currentness, Organization, Confidentiality *Methods of Recording *Reporting: Change of shift reports, Incident reports *Minimizing legal Liability through effective record keeping	*Lecture Discussion *Demonstration *Practical session *Supervised clinical practice	*Essay type *Short answers *Objective type
VII	15	*Describe the principles and techniques of monitoring and maintaining vital signs *Monitor and maintain vital signs	<b>Vital signs</b> *Guidelines for taking vital signs *Body temperature: - Physiology, Regulation, Factors affecting body temperature - Assessment of body temperature: sites, equipments and technique, special considerations - Temperature alterations: Hyperthermia, Heatstroke, Hypothermia - Hot and cold applications *Pulse: - Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse - Assessment of pulse: sites, location, equipments and technique, special considerations - Alterations in pulse *Respiration: - Physiology and regulation, mechanics of breathing, characteristics of the respiration, factors affecting respiration	*Lecture Discussion *Demonstration *Practical session *Supervised clinical practice	*Essay type *Short answers *Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			*Blood pressure: - Assessment of blood pressure: sites, equipments and technique and special considerations - Alterations in blood pressure *Recording of vital signs		
VIII	30	*Describe the purpose and process of health assessment *Describe the health assessment of each body system *Perform health assessment of each body system	<b>Health assessment</b> *Purposes *Process of Health assessment - Health history - Physical examination: Methods: Inspection, Palpation, Percussion, Auscultation, Olfaction Preparation for examination: Patient and unit - General assessment - Assessment of each body system - Recording of health assessment	*Lecture Discussion *Demonstration *Practice on simulators *Supervised clinical practice	*Essay type *Short answers *Objective type
IX	5	*Identify the various machinery, equipment and linen and their care	<b>Machinery, Equipment and linen</b> *Types: Disposable and reusables – Linen, Rubber goods, Glass ware, Metal, Plastics, Furniture, Machinery *Introduction: - Indent - Maintenance - Inventory	*Lecture Discussion *Demonstration	*Essay type *Short answers *Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
X	21	<p>*Describe the basic, physiological and psychosocial needs of patient</p> <p>*Describe the principles and techniques for meeting basic physiological and psychosocial needs of patient</p> <p>*Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient</p>	<p><b>Meeting needs of patient</b></p> <p>*Basic needs(Activities of Daily Living)</p> <p><u>Providing safe and clean environment:</u></p> <ul style="list-style-type: none"> <li>- Physical environment: Temperature, Humidity, Noise, Ventilation, Light, Odour, Pests control</li> <li>- Reduction of physical hazards: fire, accidents</li> <li>- Safety devices: Restraints, Side rails, Airways, Trapez, etc.,</li> <li>- Role of nurse in providing safe and clean environment</li> </ul> <p><u>Hygiene:</u></p> <ul style="list-style-type: none"> <li>- Factors influencing hygienic practices</li> <li>- Hygienic care: Care of the Skin-Bath and pressure points, Feet and Nail, Oral cavity, Hair care, Eyes, Ears and Nose</li> </ul> <p>Assessment, principles, types, equipments, procedure, special considerations</p> <ul style="list-style-type: none"> <li>- Patient environment: Room, Equipment and Linen, Making patient beds</li> <li>- Types of beds and bed making</li> </ul> <p>*Comfort:</p> <ul style="list-style-type: none"> <li>- Factors influencing comfort</li> <li>- Comfort devices</li> </ul>	<p>*Lecture</p> <p>Discussion</p> <p>*Demonstration</p> <p>*Practice sessions</p> <p>*Supervised clinical practice</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p> <p>*Assess with check list and clinical practical examination</p>

# NURSING FOUNDATIONS-II

SECOND SEMESTER

THEORY 135 Hrs.  
LAB 100 Hrs  
CLINICALS 250 Hrs

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
X	39		<p>Physiologic needs: <u>Sleep and Rest:</u></p> <ul style="list-style-type: none"> <li>- Physiology of sleep</li> <li>- Factors affecting sleep</li> <li>- Promoting rest and sleep</li> <li>- Sleep disorders</li> </ul> <p><u>Nutrition:</u></p> <ul style="list-style-type: none"> <li>- Importance</li> <li>- Factors affecting Nutritional needs</li> <li>- Assessment of nutritional needs: variables</li> <li>- Meeting nutritional needs: Principles, equipments, procedure and special considerations</li> </ul> <p>Oral Enteral: Naso / Orogastric, Gastrostomy Parenteral</p> <p><u>Urinary elimination:</u></p> <ul style="list-style-type: none"> <li>- Review of physiology of urinary elimination, composition and characteristics of urine</li> <li>- Factors influencing urination</li> <li>- Alteration in urinary elimination</li> <li>- Types and collection of urine specimen: Observation, Urine testing</li> <li>- Facilitating urine elimination: assessment, types, equipments, procedures and special considerations</li> </ul> <p>Providing urinal / bedpan Condom drainage Perineal care Catheterization Care of urinary drainage Care of urinary diversions Bladder irrigation</p> <p><u>Bowel elimination:</u></p>		

			<ul style="list-style-type: none"> <li>- Review of physiology of bowel elimination, composition and characteristics of feces</li> <li>- Factors affecting bowel elimination</li> <li>- Alterations in bowel elimination</li> <li>- Types and collection of specimen of feces: Observation</li> <li>- Facilitating bowel elimination: assessment, equipment, procedures and special considerations</li> <li>Passing of flatus tube</li> <li>Enemas</li> <li>Suppository</li> <li>Sitz bath</li> <li>Bowel wash</li> <li>Care of ostomies</li> <li><u>Mobility and Immobility:</u> <ul style="list-style-type: none"> <li>- Principles of body mechanics</li> <li>- Maintenance of normal body alignment and mobility</li> <li>- Factors affecting body alignment and mobility</li> <li>- Hazards associated with immobility</li> <li>- Alteration in body alignment and mobility</li> <li>- Nursing interventions for impaired body alignment and mobility: Assessment, Types, Devices used, Method and Social considerations, Rehabilitation aspects</li> </ul> </li> <li>Range of motion exercises</li> <li>Maintaining body alignment: positions</li> <li>Moving</li> <li>Lifting</li> <li>Transferring</li> <li>Walking</li> <li>Restraints</li> <li><u>Oxygenation:</u> <ul style="list-style-type: none"> <li>- Review of cardio-vascular and respiratory physiology</li> <li>- Factors affecting oxygenation</li> <li>- Alterations in oxygenation</li> <li>- Nursing interventions in oxygenation: assessment, types, equipments used, procedure and special considerations</li> </ul> </li> </ul>		
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			<p>Maintenance of patent air-way  Oxygen administration  Suction  Inhalations: dry and moist  Chest physiotherapy and postural drainage  Care of chest drainage  Pulse oximetry  CPR – Basic life support  <u>Fluid, Electrolytes and Acid- Base Balances:</u>  - Review of physiological regulation of Fluid and Electrolyte and Acid- Base balances  - Alterations in Fluid and Electrolyte and Acid- Base balances  - Nursing interventions in Fluid and Electrolyte and Acid- Base imbalances: assessment, types, equipment, procedure and special considerations  Measuring fluid intake and output  Correcting fluid and electrolyte imbalance:  Replacement of fluids: Oral and Parenteral, Venepuncture,  Regulating IV Flow rates, changing IV solutions and tubings, changing IV dressing Administering blood transfusion  Restriction of fluids  *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  Recreational and Diversional therapies</p>		
XI	20	*Describe principles and techniques for infection control and bio medical waste management in	<p><b>Infection control in clinical settings</b>  *Infection control  - Nature of infection  - Chain of infection transmission  - Defenses against infection transmission</p>		



		supervised clinical settings	<ul style="list-style-type: none"> <li>- Hospital acquired infection (Nosocomial infection)</li> <li>*Concept of asepsis: medical asepsis, and surgical asepsis</li> <li>*Isolation precautions (Barrier nursing): <ul style="list-style-type: none"> <li>- Hand washing : simple, hand asepsis(scrub)</li> <li>- Isolation: source protective</li> <li>- Personal protecting equipments: types, uses and technique of wearing and removing</li> <li>- Decontamination of equipment and unit</li> <li>- Transportation of infected patients</li> <li>- Standard safety precautions (Universal precautions)</li> <li>- Transmission based precautions</li> </ul> </li> <li>*Biomedical waste management: <ul style="list-style-type: none"> <li>- Importance</li> <li>- Types of hospital waste</li> <li>- Hazards associated with hospital waste</li> <li>- Decontamination of hospital waste</li> <li>- Segregation and Transportation and disposal</li> </ul> </li> </ul>		
XII	40	<ul style="list-style-type: none"> <li>*Explain the principles, routes, effects of administration of medications</li> <li>*Calculate conversions of drugs and dosages within and between systems of measurements</li> <li>*Administer drugs by the following routes- oral, intra dermal, subcutaneous, intramuscular, intra venous, topical,</li> </ul>	<ul style="list-style-type: none"> <li>*General principles / considerations <ul style="list-style-type: none"> <li>- Purposes of medication</li> <li>- Principles: 5 rights, special considerations, prescriptions, safety in administering medications and medication errors</li> <li>- Drug forms</li> <li>- Routes of administration</li> <li>- Storage and maintenance of drugs and nurse's responsibility</li> <li>- Broad classification of drugs</li> <li>- Therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions</li> <li>- Factors influencing drug actions</li> <li>- Systems of drug measurement: Metric system, Apothecary system, Household measurements, solutions</li> <li>- Converting measurements units: Conversion within one system, conversion between systems,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Demonstration</li> <li>*Practice sessions</li> <li>*Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> <li>*Assess with check list and clinical practical examination</li> </ul>

		<p>inhalation.</p>	<p>dosage calculations</p> <ul style="list-style-type: none"> <li>- Terminologies and abbreviations used in prescriptions of medications</li> </ul> <p>*Oral Drugs Administration : Oral, Sublingual and Buccal – equipment, procedure</p> <p>*Parenteral</p> <ul style="list-style-type: none"> <li>- Types of parenteral therapies</li> <li>- Types of syringes, needles, canula and infusion sets</li> <li>- Protection from needle stick injuries; Giving medications with a safety syringes</li> <li>- Routes of parenteral therapies:</li> </ul> <p>Intra dermal: purposes, site, equipment, procedure, special considerations</p> <p>Subcutaneous: purposes, site, equipment, procedure, special considerations</p> <p>Intra muscular: purposes, site, equipment, procedure, special considerations</p> <p>Intra venous: purposes, site, equipment, procedure, special considerations</p> <ul style="list-style-type: none"> <li>- Advanced techniques: epidural, intra thecal, intra osseous, intra peritoneal, intra plural, intra arterial</li> </ul> <p>Role of nurse</p> <p>*Topical Administration: purposes, site, equipment, procedure, special considerations</p> <ul style="list-style-type: none"> <li>- Application to skin</li> <li>- Application to mucus membrane:</li> </ul> <p>Direct application of liquids –</p> <p>Gargles and swabbing the throat</p> <p>Insertion of Drug into body cavity:</p> <p>Suppository / medicated packing in rectum / vagina</p> <ul style="list-style-type: none"> <li>- Instillation: Ear, Eye, Nasal, Bladder, Vaginal, Rectal</li> <li>- Irrigations: Ear, Eye, Nasal, Bladder, Vaginal, Rectal</li> <li>- Spraying: Nose and Throat</li> </ul> <p>*Inhalation: Nasal, oral, endotracheal / tracheal (steam, oxygen and medications) - purposes, site, equipment, procedure, special considerations</p>		
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			- Recording and reporting of medications administered		
XIII	10	<ul style="list-style-type: none"> <li>*Describe the pre and post operative care of patients</li> <li>*Explain the process of wound healing</li> <li>*Explain the principles and techniques of wound care</li> <li>*Perform care of wounds</li> </ul>	<p><b>Meeting needs of peri operative patients</b></p> <ul style="list-style-type: none"> <li>* Definition and concept of peri operative nursing</li> <li>*Preoperative phase: <ul style="list-style-type: none"> <li>- Preparation of patient for surgery</li> </ul> </li> <li>*Intra operative: <ul style="list-style-type: none"> <li>- Operation theatre setup and environment</li> <li>- Role of nurse</li> </ul> </li> <li>*Post operative phase: <ul style="list-style-type: none"> <li>- Recovery unit</li> <li>- Post operative unit</li> <li>- Post operative care</li> </ul> </li> <li>*Wounds: types, classifications, wound healing process, factors affecting wound healing</li> <li>*Surgical asepsis</li> <li>*Care of the wound: Types, equipment, procedure, special considerations <ul style="list-style-type: none"> <li>- Dressings, suture care</li> <li>- Care of drainage</li> <li>- Application of bandages, binders, splints and slings</li> <li>- Heat and Cold Therapy</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Demonstration</li> <li>*Practice sessions</li> <li>*Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> <li>*Assess with check list and clinical practical examination</li> </ul>
XIV	15	<ul style="list-style-type: none"> <li>*Explain the care of patients having alterations in body functioning</li> </ul>	<p><b>Meeting special needs of the patient</b></p> <ul style="list-style-type: none"> <li>*Care of the patient s having alteration in <ul style="list-style-type: none"> <li>- Temperature (hyper and hypothermia): Types, Assessment , Management</li> <li>- Sensorium (unconsciousness): Assessment, Management</li> <li>- Urinary elimination (retention and incontinence): Assessment, Management</li> <li>- Functioning of sensory organs (visual and hearing impairment)</li> <li>- Assessment of self care ability</li> <li>- Communication methods and special considerations</li> <li>- Mobility (physically challenged, cast): Assessment of self – care ability</li> <li>- Mental status (mentally challenged): Assessment of self –</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Case discussion</li> <li>*Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> </ul>

			<p>care ability</p> <ul style="list-style-type: none"> <li>- Communication methods and special considerations</li> <li>- Respiration (distress): Types, Assessment , Management</li> <li>- Comfort (pain): Nature, Types, Factors influencing pain, Coping, Assessment, Management</li> <li>- Treatments related to gastro intestinal system: Naso gastric suctioning, Gastric irrigation,Gastric analysis</li> </ul>		
XV	5	*Explain care of terminally ill patient	<p><b>Care of Terminally ill patients</b></p> <ul style="list-style-type: none"> <li>- Concepts of loss, grief, grieving process</li> <li>- Signs of clinical death</li> <li>- Care of dying patient: special considerations, Advance directives – euthanasia, will, dying declaration, organ donation, etc.,</li> <li>- Medico – Legal issues</li> <li>- Care of dead body: equipment, procedure and care of unit</li> <li>- Autopsy</li> <li>- Embalming</li> </ul>	<p>*Lecture, Discussion *Demonstration *Case discussion / Role play *Practice session *Supervised clinical practice</p>	<p>*Essay types *Short answers</p>
XVI	6	*Explain the basic concepts of conceptual and theoretical models of nursing	<p><b>Professional nursing concepts and practices</b></p> <p>*Conceptual and theoretical models of nursing practice: Introduction to models-holistic model, health belief model, health promotion model, etc.,</p> <p>*Introduction to theories in nursing- Peplau’s, Handerson’s, Oram’s, Neuman’s, Roger,s and Roy’s</p> <p>*Linking theories with nursing process</p>	<p>*Lecture Discussion</p>	<p>*Essay types *Short answers</p>

**Bibliography:****Textbook :**

1. Potter & Perry, Fundamentals of Nursing, Elsevier, 6<sup>th</sup> Edition.

**Reference**

1. Harkreader, Fundamentals of Nursing: Catering and Clinical Judgment, Elsevier, 3<sup>rd</sup> Edition
2. Kozier, Fundamentals of Nursing: Concepts, Process & Practice, Pearson, 7<sup>th</sup> Edition
3. Taylor, Fundamentals of Nursing: Arts and science of Nursing Process, Saunders, 7<sup>th</sup> Editon.
4. Fuller, Health Assessment: Nursing Approach, Lippincott, 3<sup>rd</sup> Edition
5. Ackley (BJ), Nursing Diagnosis Handbook: An evidence based guide to planning care, Mosby, 8<sup>th</sup> Edition
6. Craven, Fundamentals of Nursing: Human health & function, LWW, 5<sup>th</sup> Edition.



			<p>walking - Restraints</p> <p>Oxygen administration</p> <p>Suctioning: Oro pharyngeal, Naso pharyngeal</p> <p>Chest physiotherapy and postural drainage</p> <p>Care of chest drainage</p> <p>CPR: Basic life support</p> <p>Intra venous therapy</p> <p>Blood and blood component therapy</p> <p>Collect / assist for collection of specimens, for investigations Urine, sputum, feces, vomitus, blood and other body fluids</p> <p>Perform lab tests: Urine: Sugar, Albumin, Acetone Blood: Sugar (with strip / Gluco-meter)</p> <p>Hot and Cold applications:</p> <p>Local and general Sitz bath</p> <p>Communicating and assisting with self – care of visually and hearing impaired patients</p> <p>Communicating and assisting with self care of mentally challenged / disturbed patients Recreational and Diversional therapies</p>	given with rating scale
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			<p>Caring of patients with alterations in sensorium</p> <p>Infection control  *Perform following procedures:  - Hand washing techniques  - (Simple, hand antiseptics and surgical antiseptics (scrub)  - Prepare isolation unit in lab / ward  - Practice technique of wearing and removing Personal protective equipment (PPE)  - Practice Standard Safety precautions (Universal precautions)</p> <p>Decontamination of equipment and unit:  *Surgical asepsis:  - Sterilization  - Handling sterilized equipment  - Calculate strengths of lotions  - Prepare lotions  *Care of articles</p> <p>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, Binders, Splints and Slings  - Bandaging of various body parts</p>	<p>*Observation study -2  *Department of Infection control &amp; CSSD  *Visits CSSD, write observation report -1  *Collection of samples for culture  *Do clinical posting in infection control department and write report  *Practice in lab / ward</p>	<p>*Assess observation study with check list  *Evaluate all procedures with check list</p>
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			<p><b>Administration of medications</b></p> <ul style="list-style-type: none"> <li>*Administer medications in different forms and routes</li> <li>*Oral, Sublingual and Buccal</li> <li>*Parenteral: Intra dermal, Sub cutaneous, Intra muscular, etc.,</li> <li>*Assist with Intra venous medications</li> <li>*Drug measurements and dose calculations</li> <li>*Preparation of lotions and solutions</li> <li>*Administer topical applications</li> <li>*Insertion of drug into body cavity: Suppository and medicated packing etc.,</li> <li>*Instillation of medicines and spray into Ear, Eye, Nose and Throat</li> <li>*Irrigations: Eye, Ear, Bladder, Vagina and Rectum</li> <li>*Inhalations: Dry and Moist</li> <li>Care of dying patient</li> <li>*Caring and packing of dead body</li> <li>*Counseling and supporting grieving relatives</li> <li>*Terminal care of the unit</li> </ul>		
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# Anatomy

**Placement:** SECOND SEMESTER

**Time:** Theory – 60 Hrs.

**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

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	5	*Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands	<b>Introduction to Anatomical terms and organization of the human body</b> *Human cell structure *Tissues – Definition, Types, Characteristics, Classification, Location, Functions and Formation *Membranes and glands – classification and structure Alterations in disease applications and implications in nursing	*Lecture Discussion *Explain using charts, microscopic slides, Skeleton and Torso *Demonstrate cells, types of tissues, membranes and glands *Record book	*Short answer questions *Objective type
II	6	*Describe the structure and functions of bones and joints	<b>The Skeletal System</b> *Bones- types, structure, Axial & Appendicular Skeleton *Bone formation and growth *Description of bones *Joints- classification and structure Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using charts, Skeleton Loose bones and Joints *Record book	*Short answer questions *Objective type
III	7	*Describe the structure and functions of muscles	<b>The Muscular System</b> *Types and structure of muscles *Muscle groups Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models and films *Demonstrate muscular movements *Record book	*Short answer questions *Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
IV	7	*Describe the structure and functions of nervous system	<b>The Nervous System</b> *Structure of neurologia & neurons *Somatic nervous system - Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves *Autonomic Nervous System – sympathetic, parasympathetic - structure, location Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, specimens *Record book	*Short answer questions *Objective type
V	6	*Explain the structure and functions of sensory organs	<b>The Sensory Organs</b> *Structure of skin, eye, ear, nose, tongue (Auditory and Olfactory apparatus) Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, specimens *Record book	*Short answer questions *Objective type
VI	7	*Describe the structure & Functions of circulatory and lymphatic system	<b>Circulatory and Lymphatic system</b> *The Circulatory System - Blood- microscopic structure - Structure of the Heart - Structure of the blood vessels – Arterial and Venous system - Circulation: systemic, pulmonary, coronary *Lymphatic system: - Lymphatic vessels and lymph - Lymphatic tissues Thymus gland Lymph nodes Spleen Lymphatic nodules Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, specimens *Record book	*Short answer questions *Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
VII	5	*Describe the structure & Functions of respiratory system	<b>The Respiratory System</b> *Structure of the organs of respiration Muscles of respiration: Intercostals and Diaphragm Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, torso specimens *Record book	*Short answer questions *Objective type
VIII	6	*Describe the structure & Functions of digestive system	<b>The Digestive System</b> Structure of Alimentary tract and accessory organs of digestion Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, torso specimens *Record book	*Short answer questions *Objective type
IX	4	*Describe the structure & Functions of excretory system	<b>The Excretory System (Urinary)</b> *Structure of organs of urinary system: Kidney, Ureters, Urinary bladder, Urethra Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, torso specimens *Record book	*Short answer questions *Objective type
X	4	*Describe the structure & Functions of endocrine system	<b>The Endocrine System</b> *Structure of Pituitary, Pancreas, Thyroid, Parathyroid, Thymus and Adrenal glands Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, torso specimens *Record book	*Short answer questions *Objective type
XI	4	*Describe the structure & Functions of reproductive system	<b>The Reproductive System including Breast</b> *Structure of female reproductive organs *Structure of male reproductive organs *Structure of the breast Alterations in disease Applications and implications in nursing	*Lecture Discussion *Explain using chart, models, slides, torso specimens *Record book	*Short answer questions *Objective type

**Bibliography:****Textbook:**

1. Singh (I), Anatomy & Physiology for Nurses, JP Brothers Publications, 2005.

**Suggested References:**

1. Kathleen (JW), Ross & Wilson Anatomy and Physiology in Health and Illness, Churchill Livingstone Publication, Philadelphia, 8<sup>th</sup> Edition, 1999.
2. Tortora, Principles of Anatomy & Physiology, John Wiley & Sons, New York, 8<sup>th</sup> Edition, 2003.

# Physiology

**Placement:** SECOND SEMESTER

Time: Theory – 60 Hrs.

**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 disease and in practice of nursing.

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	*Describe the physiology of cell, tissues, membranes and glands	<b>Cell Physiology</b> *Tissue formation, repair *Membranes & glands – functions Alterations in disease Applications and implications in nursing	*Lecture discussion	*Short answer questions *Objective type
II	4	*Describe the formation and growth and movements of skeleton system	<b>Skeletal System</b> *Bone formation & growth *Bones – Functions and movements of bones of axial and appendicular skeleton, bone healing *Joints and joint movement Alterations in disease Applications and implications in nursing	* Lecture discussion *Explain using Charts, Models, Specimen and Films *Demonstration of joint movements	*Short answer questions *Objective type
III	4	*Describe the muscle movements and tone and demonstrate muscle contraction and tone	<b>Muscular System</b> *Muscle movements, Muscle tone, Physiology of contraction, levels and maintenance of posture Alterations in disease Applications and implications in nursing	Lecture discussion *Explain using Charts, Models, Specimen and Films *Demonstration of muscle movements, tone and contraction	*Short answer questions *Objective type
IV	7	*Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves *Demonstrate reflex action and stimulus	<b>Nervous System</b> *Functions of Neuroglia & Neurons *Stimulus * Nerve – impulse-definitions and mechanism *Functions of brain, spinal cord, cranial and spinal nerves *Cerebrospinal fluid-composition, circulation and function *Reflex arc, reflex action and reflexes *Autonomic functions	*Lecture discussion *Explain using charts, films *Demonstration of nerve stimulus, reflex action, reflexes	*Short answer questions *Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>- Pain: somatic, visceral and referred</li> <li>- Autonomic learning and bio feed back</li> </ul> Alterations in disease Applications and implications in nursing		
V	8	<ul style="list-style-type: none"> <li>*Describe the physiology of blood and functions of heart</li> <li>*Demonstrate blood cell count, coagulation, grouping, Hb., BP and Pulse monitoring</li> </ul>	<b>Circulatory System</b> <ul style="list-style-type: none"> <li>*Blood formation, composition, blood groups, blood coagulation</li> <li>*Hemoglobin: Structure, Synthesis and Breakdown, Variation of molecules, estimation</li> <li>*Functions of Heart, Conduction, Cardiac cycle, circulation – principles, control, factors influencing BP, and Pulse</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>*Lecture discussion</li> <li>*Explain using charts, films</li> <li>*Demonstration of blood cell count, coagulation, grouping, Hemoglobin estimation, heart conduction system</li> <li>*Measurement of pulse, BP</li> </ul>	<ul style="list-style-type: none"> <li>*Short answer questions</li> <li>*Objective type</li> </ul>
VI	6	<ul style="list-style-type: none"> <li>*Describe the physiology and mechanism of respiration</li> <li>*Demonstrate spirometry</li> </ul>	<b>The Respiratory System</b> <ul style="list-style-type: none"> <li>*Functions of respiratory organs</li> <li>*Physiology of respiration</li> <li>*Pulmonary ventilation, Volume</li> <li>*Mechanics of respiration</li> <li>*Gaseous exchange in lungs</li> <li>*Carriage of oxygen and carbon- di oxide</li> <li>*Exchange of gases in tissues</li> <li>*Regulation of respiration</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>*Lecture discussion</li> <li>*Explain using charts, films</li> <li>*Demonstration of spirometry</li> </ul>	<ul style="list-style-type: none"> <li>*Short answer questions</li> <li>*Objective type</li> </ul>
VII	6	<ul style="list-style-type: none"> <li>*Describe the physiology of digestive system</li> <li>*Demonstrate BMR</li> </ul>	<b>The Digestive System</b> <ul style="list-style-type: none"> <li>*Functions of organs of digestive tract, movements of alimentary tract, digestion in mouth, stomach, small intestines, absorption of food, functions of liver, gall bladder and pancreas</li> <li>*Metabolism of carbohydrates, protein and fat</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture discussion</li> <li>*Explain using charts, films</li> </ul>	<ul style="list-style-type: none"> <li>*Short answer questions</li> <li>*Objective type</li> </ul>

<b>Unit</b>	<b>Time (Hrs.)</b>	<b>Learning Objectives</b>	<b>Content</b>	<b>Teaching Learning Activities</b>	<b>Assessment methods</b>
VIII	5	*Describe the physiology of excretory system	<b>The Excretory System</b> *Functions of kidneys, ureters, urinary bladder and urethra *Composition of urine *Mechanism of urine formation *Regulation of body temperature *Fluid and electrolyte balance Alterations in disease Applications and implications in nursing	*Lecture discussion *Explain using charts, films	*Short answer questions *Objective type
IX	4	*Describe the physiology of sensory organs	<b>The Sensory Organs</b> *Functions of skin, eye, ear, nose, tongue Alterations in disease Applications and implications in nursing	*Lecture discussion *Explain using charts, films	*Short answer questions *Objective type
X	5	*Describe the physiology of endocrine glands	*Functions of Pituitary, Pineal body, Thymus, Thyroid, Parathyroid, Pancreas, Supra renal, Placenta and Ovaries and Testes Alterations in disease Applications and implications in nursing	*Lecture discussion *Explain using charts, films *Demonstration of BMR	*Short answer questions *Objective type
XI	5	*Describe the physiology of male and female reproductive system	*Reproduction of cells- DNA, Mitosis, Meiosis, Spermatogenesis, Oogenesis *Functions of female reproductive organs: Functions of breast, female sexual cycle *Introduction to embryology *Functions of male reproductive organs: Male fertility system Alterations in disease Applications and implications in nursing	*Lecture discussion *Explain using charts, films, models, specimens	*Short answer questions *Objective type



Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
XII	2	*Describe the physiology of Lymphatic and Immunological System	<b>Lymphatic and Immunological System</b> *Circulation of lymph *Immunity - Formation of T-Cells and B- Cells - Types of Immune response - Antigens - Cytokines - Antibodies	*Lecture discussion *Explain using charts, films	*Short answer questions *Objective type

### **Bibliography:**

#### **Textbook:**

1. Sembulingam (K), Essentials of Medical Physiology, J.P.Brothers Publications, New Delhi, 4<sup>th</sup> Edition, 2006 .

#### **Suggested Reference:**

1. Chaudhuri, Concise Medical Physiology, New Central Book Agency Pvt. Ltd., Calcutta, 4<sup>th</sup> Edition, 2002.
2. Kathleen (JW), Ross & Wilson Anatomy and Physiology in Health and Illness, Churchill Livingstone Publication, Philadelphia, 8<sup>th</sup> Edition, 1999.
3. Tortora, Principles of Anatomy & Physiology, John Wiley & Sons, New York, 8<sup>th</sup> Edition, 2003
4. Thibodeau (GA), Anthony's Textbook of Anatomy & Physiology, Elsevier, 18<sup>th</sup> Edition, 2007

# Nutrition

**Placement:** SECOND SEMESTER

**Time:** Theory – 60 Hrs.

**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 the practice of nursing.

Unit	Time (Hrs.) Th. Pr.	Learning objectives	Content	Teaching Learning Activities	Evaluation
I	4	*Describe the relationship between nutrition & health	<b>Introduction</b> *Nutrition: - History - Concepts *Role of nutrition in maintaining health *Nutritional problems in India *National Health Policy *Factors affecting food and nutrition: socio economic, cultural, tradition, production, system of distribution, life cycle and food habits etc., *Role of food and its medicinal value *Classification of foods *Elements of nutrition: macro and micro *Calorie, BMR	* Lecture Discussion *Explaining using charts *Panel discussion	Short answers *Objective type
II	2	*Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates	<b>Carbohydrates</b> *Classification *Caloric value *Recommended daily allowances *Dietary Sources *Functions *Digestion, Absorption, Storage and Metabolism of carbohydrates *Malnutrition: Deficiencies and Over consumption	*Lecture Discussion *Explaining using charts	Short answers *Objective type
III	2	*Describe the classification, functions, sources and	<b>Fats</b> *Classification *Caloric value *Recommended daily	*Lecture Discussion *Explaining using charts	Short answers *Objective type

Unit	Time (Hrs.) Th. Pr.	Learning objectives	Content	Teaching Learning Activities	Evaluation
		recommended daily allowances (RDA) of Fats	allowances *Dietary Sources *Functions *Digestion, Absorption, Storage and Metabolism of carbohydrates *Malnutrition: Deficiencies and Over consumption		
IV	2	*Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins	<b>Proteins</b> *Classification *Caloric value *Recommended daily allowances *Dietary Sources *Functions *Digestion, Absorption, Storage and Metabolism of carbohydrates *Malnutrition: Deficiencies and Over consumption	*Lecture Discussion *Explaining using charts	Short answers *Objective type
V	3	*Describe the daily calorie requirement for different categories of people	<b>Energy</b> *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	*Lecture Discussion *Explaining using charts *Exercise *Demonstration	Short answers *Objective type
VI	4	*Describe the classification, functions, sources and recommended daily allowances (RDA) of Vitamins	<b>Vitamins</b> *Classification *Caloric value *Recommended daily allowances *Dietary Sources *Functions *Absorption, synthesis, metabolism, storage and excretion *Deficiencies *Hypervitaminosis	*Lecture Discussion *Explaining using charts	Short answers *Objective type

Unit	Time (Hrs.) Th. Pr.		Learning objectives	Content	Teaching Learning Activities	Evaluation
VII	4		*Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals	<b>Minerals</b> *Classification *Caloric value *Recommended daily allowances *Dietary Sources *Functions *Absorption, synthesis, metabolism, storage and excretion *Deficiencies *Over consumption and toxicity	*Lecture Discussion *Explaining using charts	Short answers *Objective type
VIII	3		*Describe the sources, functions and requirements of Water & Electrolytes	<b>Water &amp; Electrolytes</b> *Water: Daily requirements, 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	*Lecture Discussion *Explaining using charts	Short answers *Objective type
IX	5	15	*Describe the cookery rules and preservation of nutrients *Prepare and serve simple beverages and different types of foods	<b>Cookery rules and preservation of nutrients</b> *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	*Lecture Discussion *Demonstration *Practice session	*Short answers *Objective type *Assessment of practice sessions
X	7	5	*Describe the plan, balanced diet for different categories of people	<b>Balance Diet</b> *Elements *Food groups *Recommended Daily Allowance *Nutritive value of foods *Calculation of balanced diet for different categories of	*Lecture Discussion *Explaining using charts *Practice session *Meal planning	*Short answers *Objective type *Exercise on menu planning

Unit	Time (Hrs.) Th. Pr.	Learning objectives	Content	Teaching Learning Activities	Evaluation
			people *Planning menu *Budgeting of food *Introduction to therapeutic diets: Naturopathy - Diet		
XI	4	*Describe various national programs related to nutrition *Describe the role of nurse in assessment of nutritional status and nutrition education	<b>Role of Nurse in Nutritional Programs</b> *National, programs related to nutrition - Vitamin A deficiency program - National iodine deficiency disorders (IDD) program - Mid-day meal program - Integrated child development scheme (ICDS) *National and International agencies working towards food / nutrition - NIPCCD, CARE, FAO. NIN, CFTRI (Central food technology and research institute) etc., *Assessment of nutritional status *Nutrition education and role of nurse	*Lecture Discussion *Explaining with Slide / Film shows *Demonstration of Assessment of nutritional status	*Short answers *Objective type

## Bibliography

### Textbook

1. Joshi (YK), Basics of Clinical Nutrition, Jaypee, Chennai, 2<sup>nd</sup> Edition, 2008.

### Reference:

1. Mahan (LK), Krause's Food, Nutrition, Diet & Therapy, Elsevier, 13<sup>th</sup> Edition, 2007.
2. Srilakshmi (B), Dietetics, New Age Int (P) Ltd., Publishers, Chennai, 5<sup>th</sup> Edition, 2007.

# Biochemistry

**Placement:** SECOND SEMESTER

**Time:** Theory – 30 Hrs.

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

Unit	Time (Hrs.)	Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	*Describe the structure, composition and functions of cell *Differentiate between Prokaryote and Eukaryote cell *Identify techniques of Microscopy	<b>Introduction</b> *Definition and significance in nursing *Review of structure, composition and functions of cell *Prokaryote and Eukaryote cell organism *Microscopy	*Lecture discussion using charts, slides *Demonstrate use of microscope	*Short answer questions *Objective type
II	6	*Describe structure and functions of cell membrane	<b>Structure and functions of cell membrane</b> *Fluid mosaic model tight junction, Cytoskeleton Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump *Acid Base balance maintenance & Diagnostic tests - PH Buffers	*Lecture discussion	*Short answer questions *Objective type
III	6	*Explain the metabolism of carbohydrates	<b>Composition and metabolism of Carbohydrates</b> *Types, structure, composition and uses - Monosaccharides - Disaccharides - Polysaccharides - Oligosaccharides *Metabolism Pathways of glucose: - Glycolysis - Glyconeogenesis: Cori's cycle,	*Lecture discussion *Demonstration of blood glucose monitoring	*Short answer questions *Objective type

Unit	Time (Hrs.)	Objectives	Content	Teaching Learning Activities	Assessment methods
			Tricarboxylic acid (TCA) cycle <ul style="list-style-type: none"> <li>- Glycogenolysis</li> <li>- Pentose phosphate pathways (Hexose monophosphate)</li> <li>- Regulation of blood glucose level</li> </ul> Investigation and their interpretations		
IV	4	* Explain the metabolism of Lipids	<b>Composition and metabolism of Lipids</b> *Types, structure, composition and uses of fatty acids <ul style="list-style-type: none"> <li>- Nomenclature, Roles and Prostaglandins</li> </ul> *Metabolism of fatty acid <ul style="list-style-type: none"> <li>- Breakdown</li> <li>- Synthesis</li> </ul> *Metabolism of triacylglycerols *Cholesterol metabolism Biosynthesis and its Regulation <ul style="list-style-type: none"> <li>- Bile salts and bilirubin</li> <li>- Vitamin D</li> <li>- Steroid hormones</li> </ul> *Lipoproteins and their functions: <ul style="list-style-type: none"> <li>- VLDLs – IDLs, LDLs and HDLs</li> <li>- Transport of lipids</li> <li>- Atherosclerosis, Investigations and their interpretations</li> </ul>	*Lecture discussion *Demonstration of Laboratory tests	*Short answer questions *Objective type
V	6	Explain the metabolism of Amino acids and proteins	<b>Composition and metabolism of Amino acids and Proteins</b> *Types, structure, Composition and uses of Amino acids and proteins *Metabolism of Amino acids and proteins <ul style="list-style-type: none"> <li>- Protein synthesis, targeting and glycosylation</li> <li>- Chromatography</li> <li>- Electrophoresis</li> <li>- Sequencing</li> </ul> *Metabolism of Nitrogen: <ul style="list-style-type: none"> <li>- Fixation and Assimilation</li> <li>- Urea Cycle</li> <li>- Hemes and chlorophylls</li> </ul>	*Lecture discussion *Demonstration of Laboratory tests	*Short answer questions *Objective type

Unit	Time (Hrs.)	Objectives	Content	Teaching Learning Activities	Assessment methods
			*Enzymes and co – enzymes - Classification - Properties - Absorption - Storage & transportation - Normal concentration, Investigations and their interpretations		
VI	8	*Describe the types, composition and utilization of Vitamins & minerals	<b>Composition of Vitamins and Minerals</b> *Vitamins and minerals: - Structure - Classification - Properties - Absorption - Storage & transportation - Normal concentration Investigations and their interpretations	*Lecture discussion *Demonstration of Laboratory tests	
VII	3	*Describe Immuno chemistry	<b>Immunochemistry</b> *Immune response *Structure and classification of immunoglobins *Mechanism of antibody production *Antigens: HLA typing *Free radical and Antioxidants *Specialised Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein *Electrophoretic and Quantitative determination of immunoglobins – ELISA etc., Investigations and their interpretations	*Lecture discussion *Demonstration of Laboratory tests	*Short answer questions *Objective type



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1. Vasudevan (DM), Text Book of Biochemistry, J.P.Brothers Publication New Delhi, 3<sup>rd</sup> Edition, 2001.

**Suggested Reading:**

1. Lehninger, Principles of Biochemistry, Worth Publishers, New York, 3<sup>rd</sup> Edition, 2002.
2. Strieler (L), (1988). Biochemistry, Freeman & Company, New York, 3<sup>rd</sup> Edition, 1988.
3. Muray (RK), Harper's Illustrated Biochemistry, McGraw Hill, New Delhi, 27<sup>th</sup> Edition, 2006.

# Community Health Nursing – I

**Placement:** THIRD SEMESTER

**Time :** Theory – 90Hrs.  
Practical –135Hrs.

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

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Methods	Assessment Methods
I	2	*Describe the concept and dimensions of health	<b>Introduction</b> *Community health nursing *Definition, concepts, and dimensions of health *Promotion of health *Maintenance of health	*Lecture Discussion	*Short answers
II	20	*Describe determinants of health	<b>Determinants of health</b> *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 and 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 *Life Style *Hygiene *Physical activity	*Lecture Discussion *Explain using charts, graphs, models, films, slides *Visits to water supply, sewage disposal, milk plants, slaughter house etc.,	*Essay type *Short answers *Objective type

			<ul style="list-style-type: none"> <li>- Recreation and sleep</li> <li>- Sexual life</li> <li>- Spiritual life philosophy</li> <li>- Self reliance</li> <li>- Dietary pattern</li> <li>- Education</li> <li>- Occupation</li> </ul> <p><b>*Financial Management</b></p> <ul style="list-style-type: none"> <li>- Income</li> <li>- Budget</li> <li>- Purchasing power</li> <li>- Security</li> </ul>		
III	10	*Describe concepts, scope, uses, methods and approaches of epidemiology	<p><b>Epidemiology</b></p> <p>*Definition, concept, aims, scope, uses and terminology used in epidemiology</p> <p>*Dynamics of disease</p> <p>Transmission: Epidemiological triad</p> <p>*Morbidity and mortality:</p> <p>Measurements</p> <p>*Levels of prevention</p> <p>*Methods of epidemiology of</p> <ul style="list-style-type: none"> <li>- Descriptive</li> <li>- Analytical: Epidemic investigation</li> <li>- Experimental</li> </ul>	<p>*Lecture</p> <p>Discussion</p> <p>*Explain using charts, graphs, models, films, slides</p>	<p>*Essay type</p> <p>*Short answers</p>
IV	25	*Describe Epidemiology and nursing management of common communicable diseases	<p><b>Epidemiology and nursing management of common communicable diseases</b></p> <p>*Respiratory infections</p> <ul style="list-style-type: none"> <li>- Small pox</li> <li>- Chicken pox</li> <li>- Measles</li> <li>- Influenza</li> <li>- Rubella</li> <li>- ARI's &amp; Pneumonia</li> <li>- Mumps</li> <li>- Diphtheria</li> <li>- Whooping cough</li> <li>- Meningococcal meningitis</li> <li>- Tuberculosis</li> <li>- SARS</li> </ul> <p>*Intestinal Infections</p> <ul style="list-style-type: none"> <li>- Poliomyelitis</li> <li>- Viral Hepatitis</li> <li>- Diarrhoeal diseases</li> <li>- Typhoid fever</li> <li>- Food poisoning</li> <li>- Amoebiasis</li> <li>- Hook worm infection</li> </ul>	<p>*Lecture</p> <p>Discussion</p> <p>*Explain using charts, graphs, models, films, slides</p> <p>*Seminar</p> <p>*Supervised field practice- health centers, clinics and homes</p> <p>*Group projects / Health education</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p>

			<ul style="list-style-type: none"> <li>- Ascariasis</li> <li>- Dracunculiasis</li> <li>*Arthropod infections <ul style="list-style-type: none"> <li>- Dengue</li> <li>- Malaria</li> <li>- Filariasis</li> </ul> </li> <li>*Zoonoses</li> <li><b>Viral</b> <ul style="list-style-type: none"> <li>- Rabies</li> <li>- Yellow fever</li> <li>- Japanese encephalitis</li> <li>- Kyasnur Forerst Disease</li> </ul> </li> <li>*Bacterial <ul style="list-style-type: none"> <li>- Brucellosis</li> <li>- Plagues</li> <li>- Human Salmonellosis</li> <li>- Anthrax</li> <li>- Leptospirosis</li> </ul> </li> <li>*Rickettsial diseases <ul style="list-style-type: none"> <li>- Rickettsial Zoonoses</li> <li>- Scrub typhus</li> <li>- Murine typhus</li> <li>- Tick typhus</li> <li>- Q fever</li> </ul> </li> <li>*Parasitic zoonoses <ul style="list-style-type: none"> <li>- Taeniasis</li> <li>- Tetanus</li> <li>- Leprosy</li> <li>- STD &amp; RTI</li> <li>- Yaws</li> <li>- HIV / AIDS, Any other</li> </ul> </li> </ul>		
V	10	*Describe the Epidemiology and nursing management of common Non-communicable diseases	<b>Epidemiology and nursing management of common Non-communicable diseases</b> <ul style="list-style-type: none"> <li>*Malnutrition: Under nutrition, over nutrition, nutritional deficiencies</li> <li>*Anaemia</li> <li>*Hypertension</li> <li>*Stroke</li> <li>*Rheumatic Heart Disease</li> <li>*Coronary Heart Disease</li> <li>*Cancer</li> <li>*Diabetes mellitus</li> <li>*Blindness</li> <li>*Accidents</li> <li>*Mental illness</li> <li>*Obesity</li> <li>*Iodine deficiency</li> <li>*Fluorosis</li> <li>*Epilepsy</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Explain using charts, graphs, models, films, slides</li> <li>*Seminar</li> <li>*Supervised field practice-health centers, clinics and homes</li> <li>*Group projects / Health education</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> </ul>

VI	6	<p>*Describe the concepts and scope of demography</p> <p>*Describe methods of data collection, analysis and interpretation of demographic data</p>	<p><b>Demography</b></p> <p>*Definition, concepts and scope</p> <p>*Methods of collection, analysis and interpretation of demographic data</p> <p>*Demographic rates and ratios</p>	<p>*Lecture</p> <p>Discussion</p> <p>*Community identification survey</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p> <p>*Assessment of Survey report</p>
VII	17	<p>*Identify the impact of population explosion in India</p> <p>*Describe methods of population control</p>	<p><b>Population and its control</b></p> <p>*Population explosion and its impact on social, economic development of individual, society and country</p> <p>*Population control:</p> <ul style="list-style-type: none"> <li>- Overall development, Women empowerment, Social, Economic and Educational development</li> </ul> <p>*Limiting family size;</p> <ul style="list-style-type: none"> <li>- Promotion of small family norm</li> <li>- Methods: spacing (Natural, Biological, Chemical, Mechanical methods, etc.)</li> <li>- Terminal: Surgical methods</li> <li>- Emergency contraception</li> </ul>	<p>*Lecture</p> <p>Discussion</p> <p>*Counseling</p> <p>*Demonstration</p> <p>*Practice session</p> <p>*Supervised field practice</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p> <p>*Assessment of Survey report</p>

**Bibliography:****Textbook:**

1. Park (JE), Text Book of Preventive and Social Medicine, Bhanarsidas Bhanot Publishers, Jabalpur, 19<sup>th</sup> Edition, 2007.

**Suggested Reference:**

1. Stanhope(M), Public Health Nursing: Population-centered Health Care in the Community, Elsevier, 7<sup>th</sup> Edition, 2008.
2. Rao (KS), Introduction to Community Health Nursing, S.I.Publications, Chennai, 1989.
3. T.N.A.I., A Community Nursing Manual, New Gian Offset Press, New Delhi, 1989.

# Community Health Nursing I - Practical

**Placement:** THIRD SEMESTER

**Time:** Practical – 135 Hrs.

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

# Microbiology

**Placement** : THIRD SEMESTER

**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.

Unit	Time (Hrs) Th.Pr.		Learning Objectives	Content	Teaching Learning Methods	Assessment Method
I	5		<ul style="list-style-type: none"> <li>Explain concepts and principles of microbiology and their importance in nursing</li> </ul>	<b>Introduction :</b> <ul style="list-style-type: none"> <li>Importance and relevance to nursing</li> <li>Historical perspective</li> <li>Concepts and terminology</li> <li>Principles of microbiology</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
II	10	5	<ul style="list-style-type: none"> <li>Describe structure, classification morphology and growth of bacteria</li> <li>Identify Micro-organisms</li> </ul>	<b>General Characteristics of Microbes</b> <ul style="list-style-type: none"> <li>Structure and classification of Microbes</li> <li>Morphological types</li> <li>Size and form of bacteria</li> <li>Mortality</li> <li>Colonization</li> <li>Growth and nutrition of microbes                             <ul style="list-style-type: none"> <li>Temperature</li> <li>Moisture</li> <li>Blood and body fluids</li> </ul> </li> <li>Laboratory methods for Identification of Micro organisms</li> <li>Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation Culture ; various medias</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
III	10	2	<ul style="list-style-type: none"> <li>Describe the methods of infection control</li> <li>Identify the role of nurse in hospital infection</li> </ul>	<b>Infection control</b> <ul style="list-style-type: none"> <li>Infection : Sources, portals of entry and exit, transmission</li> <li>Asepsis</li> <li>Disinfection : Types and methods</li> <li>Sterilization ; Types and methods</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Demonstration</li> <li>Visits to CSSD</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>



			Control Programme	<ul style="list-style-type: none"> <li>• Chemotherapy and antibiotics</li> <li>• Standard safety measures</li> <li>• Biomedical waste management</li> <li>• Role of Nurse</li> <li>• Hospital acquired infection</li> <li>• Hospital infection control programme</li> </ul> <p>Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc.,</p>		
IV	12	4	<ul style="list-style-type: none"> <li>• Describe the different disease producing organisms</li> </ul>	<p><b>Pathogenic organisms</b></p> <ul style="list-style-type: none"> <li>• Micro-organisms <ul style="list-style-type: none"> <li>○ Cocci-gram positive and gram negative</li> <li>○ Bacilli-gram positive and gram negative</li> <li>○ Spirochaete</li> <li>○ Mycoplasma</li> <li>○ Rickettsiae</li> <li>○ Chlamydiae</li> </ul> </li> <li>• Viruses</li> <li>• Fungi-Superficial and Deep mycoses</li> <li>• Parasites</li> <li>• Rodents &amp; vectors</li> </ul> <p>Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms Collection, handling and transportation of various specimens</p>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

V	8	4	Explain the concept of immunity, hyper sensitivity and immunization	<ul style="list-style-type: none"> <li>• <b>Immunity</b></li> <li>• Immunity – Types, classification</li> <li>• Antigen and antibody reaction</li> <li>• Hypersensitivity – skin test</li> <li>• Immuno prophylaxis</li> <li>• Vaccines &amp; sera-Types &amp; Classification, storage and handling, cold chain</li> <li>• Immunization for various diseases</li> <li>• Immunization Schedule</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Demonstration</li> <li>• Visits to CSSD</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
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**Bibliography:**

**Textbook:**

1. Ananthanarayanan (R), Textbook of Microbiology, Orient Longman Ltd., Madras, 1994.

**Suggested Reference:**

1. Bhatia (R), Essentials of Medical Microbiology, J.P Brotheres Publishers, New Delhi, 3<sup>rd</sup> Edition, 2004.
2. Ichhpujani (RL), Microbiology for Nurses, J.P Brotheres Publishers, New Delhi, 2<sup>nd</sup> Edition, 2003.

# Pharmacology

**Placement :** THIRD SEMESTER

**Time :** Theory – 45 Hours

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Methods	Assessment Method
I	3	*Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration	<b>Introduction to pharmacology</b> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Sources</li> <li>• Terminology used</li> <li>• Types : Classification</li> <li>• Pharmacodynamics : Actions, therapeutic, Adverse, toxic</li> <li>• Pharmacokinetics : absorption, distribution, metabolism, interaction, excretion</li> <li>• Review : Routes and principles of administration of drugs</li> <li>• Indian pharmacopoeia : Legal issues</li> <li>• Rational use of drugs</li> <li>• Principles of therapeutics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
II	6	<ul style="list-style-type: none"> <li>• Explain chemotherapy of specific infections and infestations and nurse's responsibilities</li> </ul>	<b>Chemotherapy</b> <ul style="list-style-type: none"> <li>• Pharmacology of commonly used ;               <ul style="list-style-type: none"> <li>○ Penicillin</li> <li>○ Cephalosporins</li> <li>○ Aminoglycosides</li> <li>○ Macrolide &amp; Broad Spectrum Antibiotics</li> <li>○ Sulfonamides</li> <li>○ Quinolones</li> <li>○ Antiamoebic</li> <li>○ Antimalarials</li> <li>○ Anthelmintics</li> <li>○ Antiscabies agents</li> <li>○ Antiviral &amp; anti-fungal agents</li> <li>○ Antitubercular drugs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>○ Anti leprosy drugs</li> <li>○ Anticancer drugs</li> <li>○ Immuno-suppressants</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>		
III	2	<ul style="list-style-type: none"> <li>• Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities.</li> </ul>	<p><b>Pharmacology of commonly used antiseptic, disinfectants and insecticides</b></p> <ul style="list-style-type: none"> <li>• Antiseptics ; Composition , action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</li> <li>• Disinfectants</li> <li>• Insecticides</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
IV	2	<ul style="list-style-type: none"> <li>• Describe drugs action on Gastro Intestinal system and nurse's responsibilities</li> </ul>	<p><b>Drugs acting on G.I. system</b></p> <ul style="list-style-type: none"> <li>• Pharmacology of commonly used <ul style="list-style-type: none"> <li>○ Antiemetics</li> <li>○ Emetics</li> <li>○ Purgatives</li> <li>○ Antacids</li> <li>○ Cholinergic</li> <li>○ Anticholinergics</li> <li>○ Fluid and electrolyte</li> <li>○ Anti diarrhoeals</li> <li>○ Histamines</li> </ul> </li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Methods	Assessment Method
V	2	<ul style="list-style-type: none"> <li>Describe drug used on Respiratory Systems and nurse's responsibilities</li> </ul>	<p><b>Drugs used on Respiratory Systems</b></p> <ul style="list-style-type: none"> <li>Pharmacology of commonly used               <ul style="list-style-type: none"> <li>Antiasthmatics</li> <li>Mucolytics</li> <li>Decongestants</li> <li>Expectorants</li> <li>Antitussives</li> <li>Bronchodilators</li> <li>Broncho constrictors</li> <li>Anthistamines</li> </ul> </li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
VI	2	<ul style="list-style-type: none"> <li>Describe Drugs used on Urinary System and nurse's responsibilities</li> </ul>	<p><b>Drugs used on Urinary System</b></p> <ul style="list-style-type: none"> <li>Pharmacology of commonly used               <ul style="list-style-type: none"> <li>Diuretics and antidiuretics</li> <li>Urinary antiseptics</li> <li>Cholinergic and anticholinergics</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
			<ul style="list-style-type: none"> <li>Acidifiers and alkanizers</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>		
VII	4	<ul style="list-style-type: none"> <li>Describe Drugs used in dead diction, emergency, deficiency of vitamins and minerals,</li> </ul>	<p><b>Miscellaneous</b></p> <ul style="list-style-type: none"> <li>Drugs used in de-addiction</li> <li>Drugs used in CPR and emergency</li> <li>Vitamins and minerals</li> <li>Immunosuppresants</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>

		poisoning, for immunization and immunosuppression and nurse's responsibilities	<ul style="list-style-type: none"> <li>• Antidotes</li> <li>• Antivenom</li> <li>• Vaccines and sera</li> </ul>		
VIII	1	<ul style="list-style-type: none"> <li>• Describe Drugs and on skin and mucous membranes and nurse's responsibilities</li> </ul>	<p><b>Drugs used on skin and mucous membranes</b></p> <ul style="list-style-type: none"> <li>• Topical applications for skin, eye, ear, nose and buccal cavity</li> </ul> <p>Antipruritics</p> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
IX	8	*Describe drugs used on Nervous system and Nurses responsibilities	<p><b>Drugs acting on Nervous system</b></p> <p>Basic and applied pharmacology of commonly used:</p> <ul style="list-style-type: none"> <li>○ Analgesics and Anaesthetics</li> <li>○ Analgesics <ul style="list-style-type: none"> <li>-Non steroidal antiinflammatory (NSAID) drugs</li> <li>-Antipyretics</li> <li>-Hipnotics and sedatives <ul style="list-style-type: none"> <li>-Opioids</li> <li>-Non-opioids</li> <li>-Tranquilizers</li> <li>-General and local anaesthetics</li> <li>-Gases <ul style="list-style-type: none"> <li>-Oxygen</li> <li>-Nitrous Oxide</li> <li>-Carbondioxide</li> </ul> </li> </ul> </li> </ul> </li> </ul> <p>Cholinergic and anticholinergics:</p> <ul style="list-style-type: none"> <li>-Muscle relaxants</li> <li>○ Major tranquilizers</li> <li>○ Ant-psychotics</li> </ul>		

			<ul style="list-style-type: none"> <li>○ Antidepressants</li> <li>○ Anticonvulsants</li> <li>○ Adrenergics</li> <li>○ Noradrenergics</li> <li>○ Mood stabilizers</li> <li>○ Acetylcholine</li> <li>○ Stimulants</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>		
X	5	<ul style="list-style-type: none"> <li>• Describe Drugs used on Cardiovascular systems and nurse's responsibilities</li> </ul>	<p>Cardiovascular drugs</p> <ul style="list-style-type: none"> <li>• Haematinics</li> <li>• Cardiotonics</li> <li>• Anti anginals</li> <li>• Anti-hypertensives &amp; Vasodilators</li> <li>• Anti-arrhythmics</li> <li>• Plasma expanders</li> <li>• Coagulants &amp; anticoagulants</li> <li>• Antiplatelets &amp; thrombolytics</li> <li>• Hypolipidemics</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
XI	4	<ul style="list-style-type: none"> <li>• Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities</li> </ul>	<p>Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> <li>• Insulins &amp; Oral hypoglycemics</li> <li>• Thyroid supplements and suppressants</li> <li>• Steroids, Anabolics</li> <li>• Uterine stimulants and relaxants</li> <li>• Oral contraceptives</li> <li>• Other estrogen-progestrone preparations</li> <li>• Corticotrophine &amp; Gonadotropines</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Adrenaline</li> <li>• Prostaglandins</li> <li>• Calcitonins</li> <li>• Calcium salts</li> <li>• Calcium regulators</li> </ul> composition, action, dosages, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse		
XII	6	<ul style="list-style-type: none"> <li>• Demonstrate awareness of the common drugs used in alternative system of medicine</li> </ul>	Introduction to drugs used in alternative systems of medicines <ul style="list-style-type: none"> <li>• Ayurveda, Homeopathy, Unani and Siddha etc</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

### **Bibliography:**

### **Textbook:**

1. Satoshkar, Pharmacology & Pharmacotherapeutics, 20<sup>th</sup> Edition, 2007.

### **Suggested References:**

1. Bennett (PN), Clinical Pharmacology, Churchill Livingstone, New Delhi, 9<sup>th</sup> Edition, 2003.
2. Tripathi (KD), Essential of Medical Pharmacology, Jaypee Brothers, New Delhi, 6<sup>th</sup> Edition, 2007.
3. Craig (CR), Modern Pharmacology with Clinical Application, Little Brown & Co., Newyork, 5<sup>th</sup> Edition, 1997.
4. Goodman & Gilman's Pharmacological Basis of therapeutics, McGrawhill, Newyork, 10<sup>th</sup> Edition, 2001.



# Pathology and Genetics

## Section A - Pathology

**Placement** : THIRD SEMESTER

**Time** : Theory – 45 hours (pathology 30 & Genetics 15 hrs)

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Methods	Assessment Method
	Th	Pr.				
I	3		<ul style="list-style-type: none"> <li>Define the common terms used in pathology</li> <li>Appreciate the deviations from normal to abnormal structure and functions of the body system</li> </ul>	<p><b>Introduction :</b></p> <ul style="list-style-type: none"> <li>*Importance of the study of pathology</li> <li>- Definition of terms</li> <li>- Methods and techniques</li> <li>- Cellular and Tissue changes</li> <li>- Infiltration and regeneration</li> <li>- Inflammations and infections</li> <li>- Wound healing</li> <li>- Vascular changes</li> <li>*Cellular growth, Neoplasms</li> <li>- Normal and Cancer cell</li> <li>- Benign and Malignant growths</li> <li>- In situ carcinoma</li> <li>- Disturbances of fluid and electrolyte imbalance</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Explain using Charts</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
II	10	5	*Explain Pathological changes in disease conditions of various systems	<p><b>Special pathology</b></p> <ul style="list-style-type: none"> <li>Pathological changes in disease conditions of various systems.</li> <li>Respiratory tract               <ul style="list-style-type: none"> <li>- Tuberculosis, Bronchitis, Pleural effusion and Pneumonia</li> <li>- Lung abscess, Emphysema, Bronchiectasis</li> <li>- Bronchial asthma, COPD &amp; Tumors</li> </ul> </li> <li>Cardio-vascular system               <ul style="list-style-type: none"> <li>o Pericardial effusion</li> <li>o Rheumatic heart disease</li> <li>o Infective endocarditis, atherosclerosis</li> <li>o Ischemia, infarction &amp; aneurysm</li> </ul> </li> <li>Gastro Intestinal Tract               <ul style="list-style-type: none"> <li>o Peptic ulcer, typhoid</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Explain using Charts, slides, specimens, X-rays and Scans</li> <li>Visits to Pathology lab, endoscopy unit and OT</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>

				<ul style="list-style-type: none"> <li>○ Carcinoma of GI tract buccal, Esophageal,</li> <li>○ Gastric &amp; intestinal</li> <li>● Liver, Gall bladder &amp; pancreas</li> <li>○ Hepatitis, Chronic liver abscess, cirrhosis</li> <li>○ Tumours of liver, gall bladder and pancreas,</li> <li>○ Cholecystitis</li> <li>● Kidneys &amp; Urinary tract</li> <li>○ Glomerulonephritis, pyelonephritis</li> <li>○ Calculi, renal failure, renal carcinoma &amp; cystitis</li> <li>● Male genital systems</li> <li>○ Cryptorchidism, testicular atrophy</li> <li>○ Prostatic hyperplasia, carcinoma penis &amp; prostate</li> <li>● Female genital system</li> <li>○ Fibroids</li> <li>○ Carcinoma cervix and Endometrium</li> <li>○ Vesicular mole, choriocarcinoma</li> <li>○ Ectopic gestation</li> <li>○ Ovarian cyst &amp; tumours</li> <li>● Cancer Breast</li> </ul>		
				<ul style="list-style-type: none"> <li>● Central Nervous system</li> <li>○ Hydrocephalus, Meningitis, encephalitis,</li> <li>○ Vascular disorders – thrombosis, embolism</li> <li>○ Stroke, paraplegia, quadriplegia</li> <li>○ Tumours, meningiomas – gliomas</li> <li>● Metastatic tumour</li> <li>● Skeletal system</li> <li>○ Bone healing, osteoporosis, osteomyelitis</li> <li>● Arthritis &amp; tumours</li> </ul>		

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Methods	Assessment Method
	Th	Pr.				
III	4	3	<ul style="list-style-type: none"> <li>Describe various laboratory tests in assessment and monitoring of disease conditions</li> </ul>	<p>Clinical pathology</p> <ul style="list-style-type: none"> <li>Various blood and bone marrow tests in assessment and monitoring of disease conditions. <ul style="list-style-type: none"> <li>Hemoglobin</li> <li>RBC, White Cell &amp; platelet counts</li> <li>Bleeding time, clotting time and prothrombine time</li> <li>Blood group and cross matching</li> <li>Blood chemistry</li> <li>Blood culture</li> <li>Serological and immunological test</li> <li>Other blood tests</li> <li>Examination of Bone marrow</li> <li>Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Demonstration</li> <li>Visit to Clinical pathology &amp; Bio-Chemistry lab and Blood bank</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
IV	2	1	<ul style="list-style-type: none"> <li>Describe the laboratory tests for examination of body cavity fluids, transudates and exudates</li> </ul>	<p>Examination of body cavity fluids, transudates and exudates</p> <ul style="list-style-type: none"> <li>The laboratories tests used in CSF analysis</li> <li>Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge</li> <li>Analysis of gastric and duodenal contents</li> <li>Analysis of semen-sperm count, motility and morphology and their importance in infertility</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>

				<ul style="list-style-type: none"><li>• Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values</li></ul>		
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Methods	Assessment Method
	Th	Pr.				
V	1	1	<ul style="list-style-type: none"> <li>Describe the laboratory tests for examination of Urine and faeces</li> </ul>	<p><b>Urine and faeces</b></p> <ul style="list-style-type: none"> <li>Urine <ul style="list-style-type: none"> <li>Physical characteristics</li> <li>Analysis</li> <li>Culture and sensitivity</li> </ul> </li> <li>Faeces <ul style="list-style-type: none"> <li>Characteristics</li> <li>Stool examination : occult blood, ova, parasite and cyst, reducing substance etc,</li> </ul> </li> <li>Methods of collection for various tests, inference and normal values</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>

**References:**

**Textbook:**

1. Mohan (H), Textbook of Pathology, JP Publishers, Chennai, 5<sup>th</sup> Edition, 2005.

**Suggested References:**

1. Underwood, General and systemic Pathology, Churchill Livingstone, London, 3<sup>rd</sup> Edition, 2000.
2. Kumar, Pathologic Basis of Disease, WB Saunders Co., New Delhi, 6<sup>th</sup> Edition, 1999.
3. Cotton (RE), Lecture Notes on Pathology, Blackwell Scientific Publication, London, 4<sup>th</sup> Edition, 1992.
4. Krishna (V), Textbook of Pathology, Orient Longman, 4<sup>th</sup> Edition, 1999.

## Section – B Genetics

Placement : THIRD SEMESTER

Time : Theory – 45 Hours

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Methods	Assessment Method
I	3	<ul style="list-style-type: none"> <li>Explain nature, principles and perspectives of heredity</li> </ul>	<p><b>Introduction :</b></p> <ul style="list-style-type: none"> <li>Practical application of genetics in Nursing</li> <li>Impact of genetic condition on families</li> <li>Review of cellular division mitosis and meiosis.</li> <li>Characteristics and structure of genes</li> <li>Chromosomes – sex determination</li> <li>Chromosomal aberrations</li> </ul> <p>Patterns of inheritance</p> <ul style="list-style-type: none"> <li>Mendelian theory of inheritance</li> <li>Multiple allots and blood groups</li> <li>Sex linked inheritance</li> <li>Mechanism of inheritance</li> <li>Errors in transmission (Mutation)</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
II	3	<ul style="list-style-type: none"> <li>Explain Maternal, prenatal and genetic influences on development of defects and disease</li> </ul>	<p><b>Maternal, prenatal and genetic influences on development of defects and diseases</b></p> <ul style="list-style-type: none"> <li>Conditions affecting the mother ; genetic and infections</li> <li>Consanguinity atopy</li> <li>Prenatal nutrition and food allergies.</li> <li>Maternal age</li> <li>Maternal drug therapy</li> <li>Prenatal testing and diagnosis</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Effect of Radiation, drugs and chemicals</li> <li>• Infertility</li> <li>• Spontaneous abortion</li> <li>• Neural Tube Defects and the role of folic acid in lowering the risks</li> </ul> Down syndrome (Trisomy 21)		
III	2	<ul style="list-style-type: none"> <li>• Explain the screening methods for genetic defects and diseases in neonates and children</li> </ul>	<b>Genetic testing in the neonates and children</b> <ul style="list-style-type: none"> <li>• Screening for <ul style="list-style-type: none"> <li>○ Congenital abnormalities</li> <li>○ Developmental delay</li> <li>○ Dysmorphism</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
IV	2	<ul style="list-style-type: none"> <li>• Identify genetic disorders in adolescents and adults</li> </ul>	<b>Genetic conditions of adolescents and adults</b> <ul style="list-style-type: none"> <li>• Cancer genetics – Familial Cancer</li> <li>• Inborn errors of metabolism</li> <li>• Blood group alleles and haematological disorder</li> <li>• Genetic haemochromatosis</li> <li>• Huntington’s disease</li> <li>• Mental illness</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
V	5	<ul style="list-style-type: none"> <li>• Describe the role nurse in genetic services and counseling</li> </ul>	<b>Services related to Genetics</b> <ul style="list-style-type: none"> <li>• Genetic testing</li> <li>• Human genome project</li> <li>• Gene therapy</li> <li>• The Eugenics movement</li> <li>• Genetic Counseling Legal and Ethical issues</li> </ul> Role of nurse	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

**Bibliography:**

1. Read (A), New Clinical Genetics, Scion Publishers, New Delhi, 2007
2. Gangane (SD), Human Genetics, J. P. Brothers Publication, New Delhi, 2000

# Medical Surgical Nursing (Adult including Geriatrics)-I

**Time:** Theory – 210 hours  
Practical – 950 hours

**Placement :** SECOND YEAR(Third and Fourth Semester)

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	15	<ul style="list-style-type: none"> <li>Appreciate the trends in medical and surgical nursing.</li> <li>Describe the role of a nurse in caring for adult patient in hospital and community.</li> <li>Describe the concepts of Medical Surgical asepsis.</li> </ul>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Introduction to medical surgical nursing-Evolution and trends of medical and surgical nursing</li> <li>Review of Concepts of Health and illness Disease-concepts, causations, classification- International Classification Diseases(ICD -10 or later version), Acute illness chronic stages if illness</li> <li>Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process</li> <li>Role of Nurse, patient and family in care of adult patient</li> <li>Role and responsibilities of a nurse in medical surgical settings:               <ul style="list-style-type: none"> <li>Outpatient department.</li> <li>In-patient unit.</li> <li>Intensive care unit</li> <li>Home and Community setting</li> </ul> </li> <li>Introduction to Medical Surgical asepsis               <ul style="list-style-type: none"> <li>Inflammation and Infection</li> <li>Immunity</li> <li>Wound healing</li> </ul> </li> <li>Care of Surgical Patient               <ul style="list-style-type: none"> <li>Pre-operative</li> <li>Intra operative</li> <li>Post Operative</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Demonstration</li> <li>Practice session</li> <li>Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective Type</li> <li>Assessment of skills with check list</li> </ul>



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
II	20	<ul style="list-style-type: none"> <li>Describe the common signs, symptoms, problems and their</li> <li>Specific nursing interventions</li> </ul>	<p>Common signs and symptoms and management</p> <ul style="list-style-type: none"> <li>Fluid and electrolyte imbalance</li> <li>Vomiting</li> <li>Dyspnea and cough, respiratory obstruction</li> <li>Fever</li> <li>Shock</li> <li>Unconsciousness, syncope</li> <li>Pain</li> <li>Incontinence</li> <li>Edema</li> <li>Age related problems-geriatric</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Seminar</li> <li>Case discussion</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Objective type</li> </ul>
III	20	<ul style="list-style-type: none"> <li>Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems</li> </ul>	<p><b>Nursing management of patients (adults including elderly) with respiratory problems</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of respiratory system,</li> <li>Nursing Assessment –History and Physiology assessment</li> <li>Etiology, Pathophysiology,</li> <li>Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of adult including elderly with – <ul style="list-style-type: none"> <li>Upper Respiratory tract infections. <ul style="list-style-type: none"> <li>Bronchitis</li> <li>Asthma</li> <li>Emphysema</li> <li>Empyema</li> <li>Atelectasis</li> <li>Chronic obstructive Pulmonary Diseases(COPD)</li> <li>Bronchiectasis</li> <li>Pneumonia</li> <li>Pulmonary tuberculosis</li> <li>Lung abscess</li> <li>Pleural effusion</li> <li>Cysts and Tumours</li> <li>Chest injuries</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecturer discussion</li> <li>Explain using Charts, graphs</li> <li>Models, films slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/ Seminar</li> <li>Health education</li> <li>Supervised clinical practice</li> <li>Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> <li>Objective type</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Respiratory arrest and insufficiency</li> <li>○ Pulmonary embolism special therapies, alternative therapies</li> </ul> <p>Nursing procedures Drugs used in treatment of respiratory disorders</p>		
IV	30	<ul style="list-style-type: none"> <li>● Describe the etiology, patho-physiology clinical manifestations , diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems</li> </ul>	<p><b>Nursing management of patients (adults including elderly) with disorders of digestive system</b></p> <ul style="list-style-type: none"> <li>● Review of anatomy and physiology of digestive system,</li> <li>● Nursing Assessment –History and Physical assessment</li> <li>● Etiology, Pathophysiology,</li> <li>● Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management</li> <li>● Disorders of <ul style="list-style-type: none"> <li>○ Oral cavity- lips, gums, tongue, salivary glands and teeth</li> <li>○ Oesophagus- inflammation, stricture, obstruction, bleeding and tumours</li> <li>○ Stomach and deudenum- hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis</li> <li>○ Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation</li> <li>○ Large intestinal disorders- Colitis, inflammation and infection, obstruction and tumour and lump</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecturer discussion</li> <li>● Explain using Charts, graphs</li> <li>● Models, films slides</li> <li>● Demonstration</li> <li>● Practice session</li> <li>● Case discussions/ Seminar</li> <li>● Health education</li> <li>● Supervised clinical practice Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short answers</li> <li>● Objective type</li> <li>● Assessment of skills with check list</li> </ul> <p>Assessment of patient management problem</p>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Hernias</li> <li>○ Appendix-inflammation, mass, abscess, rupture</li> <li>○ Anal &amp; Rectum; hemorrhoids, fissures, Fistulas</li> <li>○ Peritonitis/acute abdomen</li> <li>○ Pancreas; inflammation, cyst, abscess and tumours</li> <li>○ Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours</li> <li>○ Gall Bladder; inflammation, obstruction, stones and tumours</li> </ul> <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of digestive system</p>		
V	30	<ul style="list-style-type: none"> <li>• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardiovascular problems</li> <li>• Describes the vascular conditions and its nursing management</li> </ul>	<p><b>Nursing management of patients (adults including elderly) with blood and cardiovascular problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of blood and cardiovascular system</li> <li>• Nursing Assessment-History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of –</li> <li>• Vascular system <ul style="list-style-type: none"> <li>○ Hypertension, Hypotension</li> <li>○ Artherosclerosis</li> <li>○ Raynaud's disease</li> <li>○ Aneurism and Peripheral vascular disorders</li> </ul> </li> </ul> <p>Heart</p> <ul style="list-style-type: none"> <li>• Coronary artery diseases <ul style="list-style-type: none"> <li>○ Ischemic Heart Disease</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecturer discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book/presentation</li> <li>• Visit to blood bank</li> <li>• Participation in blood donation camps</li> <li>• Counseling</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Ischemic Heart Disease</li> <li>○ Coronary atherosclerosis</li> <li>○ Angina pectoris</li> <li>○ Myocardial infarction</li> <li>● Valvular disorders of the heart <ul style="list-style-type: none"> <li>○ Congenital and acquired</li> <li>○ Rheumatic Heart diseases</li> </ul> </li> <li>● Endocarditis, Pericarditis Myocarditis</li> <li>● Cardio Myopathies</li> <li>● Cardiac dysrhythmias, Heart Block</li> <li>● Congestive cardiac failure <ul style="list-style-type: none"> <li>○ Cor-pulmonale, Pulmonary edema, cardiogenic shock, cardiac tamponade</li> </ul> </li> <li>● Cardiac emergencies and arrest</li> <li>● Cardio Pulmonary Resuscitation (CPR)</li> <li>● Blood <ul style="list-style-type: none"> <li>○ Anaemias</li> <li>○ Polycythemia</li> <li>○ Bleeding disorders; clotting factor defects and platelet defects</li> <li>○ Thalassemia</li> <li>○ Leukaemias</li> <li>○ Leukopenias and agranulocytosis</li> <li>○ Lymphomas</li> <li>○ Myelomas</li> </ul> </li> <li>● Special therapies <ul style="list-style-type: none"> <li>○ Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.</li> <li>○ Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion committee. Bio-safety and waste management in relation to blood Transfusion</li> </ul> </li> </ul>		

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Role of a nurse in Organ donation, retrieval and banking</li> <li>Alternative therapies</li> <li>Nursing procedures</li> <li>Drugs used in treatment of blood and cardio vascular disorders</li> </ul>		
VI	10	<ul style="list-style-type: none"> <li>• Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genitor-urinary system</li> </ul>	<p><b>Nursing management of patients (adults including elderly) with genitor-urinary problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of genitor-urinary system</li> <li>• Nursing Assessment – History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; Nursing management of –</li> <li>• Nephritis</li> <li>• Nephrotic syndrome</li> <li>• Nephrosis</li> <li>• Renal calculus</li> <li>• Tumours</li> <li>• Acute renal failure</li> <li>• Chronic renal failure</li> <li>• End stage renal transplant</li> <li>• Congenital disorders, urinary bladder and urethra-inflammation, infection, stricture, obstruction, tumour, prostrate</li> </ul> <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of genitor-urinary disorders</p>	<ul style="list-style-type: none"> <li>• Lecturer discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/ Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
VII	5	<ul style="list-style-type: none"> <li>• Describe the etiology, patho-physiology</li> </ul>	<p><b>Nursing management of patients (adults including elderly) reproductive system</b></p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genitor-urinary system	<ul style="list-style-type: none"> <li>Review of anatomy and physiology of male reproductive system.</li> <li>Nursing Assessment – History and Physical assessment</li> <li>Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of disorders of male reproductive system</li> <li>Congenital malformation; cryptorchidism</li> <li>Hypospadiasis, Epispadiasis</li> <li>Infections</li> <li>Testis and adjacent structures</li> <li>Penis</li> <li>Prostate: inflammation, infection, hypertrophy, tumour</li> <li>Sexual Dysfunction</li> <li>Infertility</li> <li>Contraception</li> <li>Brest; gynecomastia, tumour</li> <li>Climacteric changes special therapies, alternative therapies</li> </ul> <p>Nursing procedures Drugs used in treatment of disorders of male reproductive system</p>	<p>Charts, graphs</p> <ul style="list-style-type: none"> <li>Models, films slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/ Seminar</li> <li>Health education</li> <li>Supervised clinical practice</li> </ul> <p>Drug book/ presentation</p>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> <li>Objective type</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management problem</li> </ul>
VIII	25	Describe the etiology, pathophysiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genitor-urinary system	<p><b>Nursing management of patients (adults including elderly) with disorders of endocrine system</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology endocrine system.</li> <li>Nursing Assessment – History and Physical assessment</li> <li>Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of disorders of Thyroid and Parathyroid</li> </ul>	<ul style="list-style-type: none"> <li>Lecturer discussion</li> <li>Explain using Charts, graphs</li> <li>Models, films slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/ Seminar</li> <li>Health education</li> <li>Supervised clinical practice, Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> <li>Objective type</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Diabetes mellitus</li> <li>○ Diabetes insipidus</li> <li>○ Adrenal tumour</li> <li>○ Pituitary disorders, special therapies, alternative therapies</li> </ul> <p>Nursing procedures Drugs used in treatment of disorders of endocrine system</p>		
IX	10	Describe the etiology, pathophysiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Skin	<p><b>Nursing management of patients (adults including elderly) with disorders of Integumentary system</b></p> <ul style="list-style-type: none"> <li>● Review of anatomy and physiology of skin and its appendages.</li> <li>● Nursing Assessment – History and Physical assessment</li> <li>● Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of disorders of skin and its appendages. <ul style="list-style-type: none"> <li>○ Lesions and abrasions</li> <li>○ Infection and infestations; Dermatitis</li> <li>○ Dermatoses; infectious and Non infectious “inflammatory dermatoses”</li> <li>○ Acne Vulgaris</li> <li>○ Allergies and Eczema</li> <li>○ Psoriasis</li> <li>○ Malignant melanoma</li> <li>○ Alopecia</li> </ul> </li> </ul> <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of Integumentary system</p>	<ul style="list-style-type: none"> <li>● Lecturer discussion</li> <li>● Explain using Charts, graphs</li> <li>● Models, films slides</li> <li>● Demonstration</li> <li>● Practice session</li> <li>● Case discussions/ Seminar</li> <li>● Health education</li> <li>● Supervised clinical practice, Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short answers</li> <li>● Objective type</li> <li>● Assessment of skills with check list</li> </ul> <p>Assessment of patient management problem</p>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
X	15	Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system	<p><b>Nursing management of patients (adults including elderly) with Musculoskeletal problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of musculoskeletal system.</li> <li>• Nursing Assessment – History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of –</li> <li>• Disorders of : <ul style="list-style-type: none"> <li>○ Muscles, Ligaments and joints-inflammation, infection, trauma</li> <li>○ Bones-inflammation, infection, dislocation, fracture, tumour and trauma</li> <li>○ Osteomalacia and osteoporosis</li> <li>○ Arthritis</li> <li>○ Congenital deformities</li> <li>○ Spinal column-defects and deformities, Tumor, Prolapsed inter vertebral disc, pott's spine</li> <li>○ Paget's disease</li> </ul> </li> <li>• Amputation</li> <li>• Protheses</li> <li>• Transplant &amp; replacement surgeries</li> <li>• Rehabilitation, Special therapies, alternative therapies</li> </ul> <p>Nursing procedures Drugs used in treatment of disorder of musculoskeletal system</p>	<ul style="list-style-type: none"> <li>• Lecturer discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/ Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice, Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
XI	10	Describe the etiology, patho-physiology clinical manifestations, diagnostic	<p><b>Nursing management of patients (adults including elderly) with Immunological problems</b></p> <ul style="list-style-type: none"> <li>• Review of Immune system.</li> </ul> <p>Nursing Assessment – History and Physical assessment</p>	<ul style="list-style-type: none"> <li>• Lecturer discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films slides</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> </ul>



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		measures and management of patients (adults including elderly) with disorders of musculoskeletal system	<ul style="list-style-type: none"> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of –</li> <li>• Immunodeficiency disorder</li> <li>• Primary immuno deficiency</li> <li>• Phagocytic dysfunction</li> <li>• B-cell and T-cell deficiencies</li> <li>• Secondary immunodeficiencies</li> <li>• Acquired immunodeficiencies</li> <li>• Acquired immunodeficiency syndrome (AIDS)</li> <li>• Incidence of HIV &amp; AIDS</li> <li>• Transmission-Prevention of Transmission</li> <li>• Standard safety precautions</li> <li>• Role of Nurse; Counseling</li> <li>• Health education and home care consideration</li> <li>• National AIDS Control Programme-NACO, various national and international agencies</li> <li>• Infection control program</li> <li>• Rehabilitation</li> <li>• Special therapies, alternative therapies</li> </ul> <p>Nursing procedures Drugs used in treatment of disorders of Immunological system</p>	<ul style="list-style-type: none"> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/ Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice, Drug book/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
XII	20	Describe the etiology, pathophysiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with communicable Disease	<p><b>Nursing management of patients (adults including elderly) with Musculoskeletal problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of musculoskeletal system.</li> <li>• Nursing Assessment – History and Physical assessment</li> </ul> <p>Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietics. Control and eradication of common Communicable Diseases</p>	<ul style="list-style-type: none"> <li>• Lecturer discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/ Seminar</li> <li>• Health education</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Tuberculosis</li> <li>○ Diarrhoeal diseases</li> <li>○ Hepatitis A-B</li> <li>○ Herpes</li> <li>○ Chickenpox</li> <li>○ Smallpox</li> <li>○ Typhoid</li> <li>○ Meningitis</li> <li>○ Gas gangrene</li> <li>○ Leprosy'</li> <li>○ Dengue</li> <li>○ Plague</li> <li>○ Malaria</li> <li>○ Diphtheria</li> <li>○ Pertussis</li> <li>○ Poliomyelitis</li> <li>○ Measles</li> <li>○ Mumps</li> <li>○ Influenza</li> <li>○ Tetanus</li> <li>○ Yellow fever</li> <li>○ Filariasis</li> <li>○ HIV, AIDS</li> <li>● Reproductive Tract Infections</li> <li>● Special Infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Diseases Hospitals</li> </ul> <p>Special therapies, alternative therapies</p> <p>Nursing Procedures</p> <p>Drug used in treatment of Communicable diseases</p>	<ul style="list-style-type: none"> <li>● Supervised clinical practice, Drug book/ presentation</li> </ul>	
XIII	20	<ul style="list-style-type: none"> <li>● Describe the Organisation and physical set up of operation theatre</li> <li>● Identify the various instruments and equipments used for</li> </ul>	<p><b>Peri Operative nursing:</b></p> <ul style="list-style-type: none"> <li>● Organisation and Physical set up of the Operation Theatre (OT): <ul style="list-style-type: none"> <li>○ Classifications</li> <li>○ O. T. DESIGN</li> <li>○ Staffing</li> <li>○ Members of the OT team</li> <li>○ Duties and responsibilities of nurse in O.T.</li> <li>○ Principles of Health and operating room attire.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecturer discussion</li> <li>● Explain using Charts, graphs</li> <li>● Models, films slides</li> <li>● Demonstration</li> <li>● Practice session</li> <li>● Supervised clinical practice</li> <li>● Drug book presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short answers</li> <li>● Objective type</li> <li>● Assessment of skills with check list</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		<p>common surgical procedures</p> <ul style="list-style-type: none"> <li>• Describe the infection control measures in the Operation theatre</li> <li>• Describe the role of the nurse in the Peri Operative nursing care</li> </ul>	<ul style="list-style-type: none"> <li>○ Instruments,</li> <li>○ Sutures and suture materials</li> <li>○ Equipments</li> <li>○ O.T. tables and sets for common surgical procedures</li> <li>○ Positions and draping ;for common surgical procedures</li> <li>○ Scrubbing procedures</li> <li>○ Gowning and gloving</li> <li>○ Preparation of O.T. Sets</li> <li>○ Monitoring the patient during surgical procedures</li> <li>• Maintenance of therapeutic environment in O.T.</li> <li>• Standard Safety measures <ul style="list-style-type: none"> <li>○ Infection control; fumigation, disinfection and sterilisation</li> <li>○ Biomedical waste management</li> <li>○ Prevention of accidents and hazards in O.T.</li> </ul> </li> <li>• Anaesthesia <ul style="list-style-type: none"> <li>○ Types</li> <li>○ Methods of administration</li> <li>○ Equipments</li> <li>○ Drugs</li> </ul> </li> <li>• Cardio Pulmonary Resuscitation (CPR)</li> <li>• Pain management techniques</li> <li>• Legal Aspects</li> </ul>		

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### **Textbook:**

1. Brunner (V), Medical Surgical Nursing , LWW, 10<sup>th</sup> Edition.

### **Suggested References:**

1. Black, Medical Surgical Nursing: Clinical Management for positive outcomes, Elsevier, 7<sup>th</sup> Edition.
2. Willams, Understanding Medical Surgical Nursing, Jaypee, 3<sup>rd</sup> Edition.
3. Timby, Introductory Medical Surgical Nursing, LWW, 9<sup>th</sup> Edition.
4. Lewis, Medical Surgical Nursing Assessment & Management of Clinical Problems, Elsevier 7<sup>th</sup> edition
5. Ignatavicius, Critical Thinking for Collaborative Care, Elsevier, 5<sup>th</sup> Edition.
6. Monahan, Phipp's Medical Surgical Nursing: Health & illness perspectives practice, Jaypee, 8<sup>th</sup> Edition.
7. Gulanick, Nursing Care Plans: Nursing Diagnosis & Interventions, Mosby, 5<sup>th</sup> edition
8. Lippincott's Manual of Nursing Practice, Jaypee , Edition.
9. Ulrich, Nursing Care Planning Guides: For adults in acute extended & Home care settings, Elsevier, 6<sup>th</sup> edition.
10. White, Foundations of Adulth Health Nursing, Thompson, 2<sup>nd</sup> edition.
11. Redfern, Nursing Older People ,Churchill Livingstone , 4<sup>th</sup> edition.
12. Phillip, Berry & Kohn's Operating room techniques, Elsevier, 11<sup>th</sup> Edition.
13. Marks, Roxburgh's Common Skin Diseases, Arnold, 17<sup>th</sup> edition.
14. Thappa, Essential in Dermatology with MCQ's, Ahuja publishing

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

Placement : Third and Fourth Semesters

Time: 950 Hours

Areas	Durati on (in week)	Objectives	Skills	Assignments	Assessment Methods
General Medical Ward (* Respiratory, GI, Endocrine, Renal, Hematology)	6	<ul style="list-style-type: none"> <li>• Provide nursing care to adult patients with medical disorders</li> <li>• Counsel and educate patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the patient               <ul style="list-style-type: none"> <li>○ Taking history</li> <li>○ Perform general and specific physical examination</li> <li>○ Identify alterations and deviations</li> </ul> </li> <li>• Practice medical surgical asepsis-Standard safety measures</li> <li>• Administer medications               <ul style="list-style-type: none"> <li>○ Oral, IV, IM, Subcutaneous</li> </ul> </li> <li>• IV therapy               <ul style="list-style-type: none"> <li>○ IV canulation</li> <li>○ Maintenance and Monitoring</li> </ul> </li> <li>• Oxygen therapy by different methods</li> <li>• Nebulization</li> <li>• Chest physio therapy</li> <li>• Naso gastric feeding</li> <li>• Assist in common diagnostic</li> <li>• Perform/Assist in therapeutic procedures</li> <li>• Blood and component therapy</li> <li>• Throat Suctioning</li> <li>• Collect specimens for common investigations.</li> <li>• Maintain elimination               <ul style="list-style-type: none"> <li>○ Catheterisation</li> <li>○ Bowel wash</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 3-4 assigned Patients</li> <li>• Nursing care plan -2</li> <li>• Nursing case study/ presentation-1</li> <li>• Durg presentation-1</li> <li>• Maintain drug book</li> <li>• Maintain Practical record book</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of case study/ presentation</li> <li>• Completion of practical record.</li> </ul>

Areas	Durati on (in week)	Objectives	Skills	Assignments	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Enema</li> <li>○ Urinary drainage</li> <li>● Maintain Intake, output and documentation</li> <li>● Counsel and teach related to specific disease conditions</li> </ul>		
General Surgical Ward (GI, Urinary, CTVS)	6	<ul style="list-style-type: none"> <li>● Provide pre and post operative nursing care to adult patients with surgical disorders</li> <li>● Counsel and educate patients and families</li> </ul>	<ul style="list-style-type: none"> <li>● Practice medical surgical asepsis-Standard safety measures</li> <li>● Pre operative preparation of patients</li> <li>● Post operative care- Receiving pt, assessment, monitoring, care</li> <li>● Care of wounds and drainage</li> <li>● Suture removal</li> <li>● Ambulation and exercise</li> <li>● Naso gastric aspiration</li> <li>● Care of chest drainage</li> <li>● Ostomy care <ul style="list-style-type: none"> <li>○ Gastrostomy</li> <li>○ Colostomy</li> <li>○ Enterostomy</li> </ul> </li> <li>● Blood and component therapy</li> <li>● Practice universal precautions</li> </ul>	<ul style="list-style-type: none"> <li>● Plan and give care to 3-4 assigned Patients</li> <li>● Nursing care plan -2</li> <li>● Nursing case study/ presentation-1</li> <li>● Durg presentation-1</li> <li>● Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>● Assess performance with rating scale</li> <li>● Assess each skill with checklist</li> <li>● Evaluation of case study/ presentation</li> <li>● Completion of practical record.</li> </ul>
Cardiology	2	<ul style="list-style-type: none"> <li>● Provide nursing care to patients with cardiac disorders</li> <li>● Counsel and educate patients and families</li> </ul>	<ul style="list-style-type: none"> <li>● Physical examination of the cardio vascular system</li> <li>● Recording and interpreting ECG</li> <li>● Monitoring of patients</li> <li>● Preparation and assisting in non-invasive and invasive diagnostic procedures</li> <li>● Administer cardiac drugs</li> <li>● Cardio pulmonary Resuscitation</li> </ul>	<ul style="list-style-type: none"> <li>● Plan and give care to 2-3 assigned patients</li> <li>● Nursing care Plan-1</li> <li>● Nursing case study/ presentation/Health talk-1</li> <li>● Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>● Assess performance with rating scale</li> <li>● Assess each skill with checklist</li> <li>● Evaluation of case study/presentation/health talk</li> </ul>

Areas	Durati on (in week)	Objectives	Skills	Assignments	Assessment Methods
			<ul style="list-style-type: none"> <li>• Teach patients and families</li> <li>• Practice medical and surgical asepsis-Standard safety measures</li> </ul>		
Skin & Communicable diseases Ward	1	<ul style="list-style-type: none"> <li>• Identify skin problems</li> <li>• Provide nursing care to patients with Skin disorders &amp; Communicable diseases</li> <li>• Counsel and educate patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the patient with skin disorders</li> <li>• Assist in diagnostic and therapeutic procedures</li> <li>• Administer topical medication</li> <li>• Practice medical surgical asepsis-Standard safety measures</li> <li>• Use of personal protective equipment (PPE)</li> <li>• Give Medicated baths</li> <li>• Counseling HIV, positive patients</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 2-3 assigned Patients</li> <li>• Health talk/ Counseling HIV positive patients and families – 1</li> <li>• Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Evaluation health talk/Counseling session</li> <li>• Completion of activity record</li> </ul>
Orthopaedic ward	2	<ul style="list-style-type: none"> <li>• Provide nursing care to patients with musculoskeletal disorders</li> <li>• Counsel and educate patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of ortho paedic patients</li> <li>• Assist in application of plaster cast and removal of cast</li> <li>• Apply skin traction-buck's extension traction</li> <li>• Assist in application and removal of prosthesis</li> <li>• Physiotherapy-Range of motion exercises (ROM), muscle strengthening exercises</li> <li>• Crutch maneuvering technique</li> <li>• Activities of daily living</li> <li>• Ambulation</li> <li>• Teach and counsel patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 2-3 assigned patients</li> <li>• Nursing care plan -1</li> <li>• Nursing case study/ presentation – 1</li> <li>• Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>• Assess each performance With rating scale</li> <li>• Evaluation of Nursing care plan and Nursing case study/presentation</li> <li>• Completion of activity record</li> </ul>

Areas	Durati on (in week)	Objectives	Skills	Assignments	Assessment Methods
Operatio n Theatre Skin & Commun icable diseases Ward	6	<ul style="list-style-type: none"> <li>Identify instruments used in common operations</li> <li>Participate in infection control practices in the Operation Theatre</li> <li>Set-up the table/trolleys for common operative procedures</li> <li>Assist in giving anesthesia</li> <li>Assist in the operative procedures</li> <li>Provide peri operative nursing care</li> </ul>	<ul style="list-style-type: none"> <li>Scrubbing, gowning, gloving</li> <li>Identify instruments, suturing materials for common operations</li> <li>Disinfection, Carbolization, fumigation</li> <li>Preparation of instrument sets for common operations</li> <li>Sterilization of sharps and other instruments</li> <li>Prepare the OT table depending upon the operation</li> <li>Positioning and monitoring of patients</li> <li>Endotracheal intubation</li> <li>Assisting in minor and major operations</li> <li>Handling specimens</li> <li>Disposal of waste as per the guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Assist as a circulatory nurse in</li> <li>Major cases-10</li> <li>Minor cases-5</li> <li>Assist as a scrub nurse in</li> <li>Major cases-10</li> <li>Minor cases-5</li> <li>Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance with rating scale</li> <li>Completion of activity record</li> </ul>
ICU CCU CARDI AC OT.	2	<ul style="list-style-type: none"> <li>To gain proficiency in ICU nursing</li> <li>Develop advance skill in special procedures used in critical care unit</li> <li>Identify potential problems and provide accordingly</li> <li>Skill in setting and handling ventilator</li> </ul>	<ul style="list-style-type: none"> <li>Assist in arterial puncture for blood gas analysis.</li> <li>Perform ECG and interpret accordingly</li> <li>Conduct and analysis pulse oximetry</li> <li>Care with artificial airway</li> <li>Assist in endotracheal intubation</li> <li>Setting up ventilator</li> <li>Giving care in ventilator</li> </ul>	<ul style="list-style-type: none"> <li>Arterial puncture-5</li> <li>Taking out ECG stripe-5</li> <li>Tracheal suction-5</li> <li>For all assigned patients</li> <li>Oxygen administration by CPAP mask and use Ambu bag</li> <li>Assessment for all assigned</li> </ul>	<ul style="list-style-type: none"> <li>Record book</li> <li>Checking with supervisor</li> </ul>



Areas	Durati on (in week)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> <li>• Administer injection in infusion pump.</li> <li>• Record accurately findings and medications</li> <li>• Develop IPR with family members</li> <li>• Acquaint with OT technique</li> </ul>	<ul style="list-style-type: none"> <li>• Drug sheet</li> <li>• Observation of special procedure in</li> </ul>	Patient <ul style="list-style-type: none"> <li>• Nursing care in ventilator</li> <li>• Drug sheet</li> </ul>	
Neuro ICU, ITU, OT	2	<ul style="list-style-type: none"> <li>• Develop skill in neurological assessment.</li> <li>• Give care to the pt with head injury and spinal injury</li> <li>• Care with chest surgery and cranial surgery.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess neurological status</li> <li>• Implement care to head injury spinal injury patients</li> <li>• Drug sheet</li> <li>• Pre and postoperative care with neuro surgery patients</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment for all assigned patients</li> <li>• Nursing care plan-2</li> <li>• Drug sheet</li> </ul>	<ul style="list-style-type: none"> <li>• Record book observation Checklist</li> </ul>
Burns and plastic Reconstructive surgery	2	<ul style="list-style-type: none"> <li>• Assess the severity of burns</li> <li>• Administer rehydration therapy</li> <li>• Observe reconstructive surgery</li> </ul>	<ul style="list-style-type: none"> <li>• Nursing care</li> </ul>		
OT Laproscopic Orthopaedic Eye ENT	3	<ul style="list-style-type: none"> <li>• Identify instruments</li> <li>• Assist in OT set Up</li> <li>• Supervise sterilization</li> <li>• Assist in OT table lay out</li> <li>• Observe immediately after operation</li> <li>• Supervise infection control.</li> </ul>		<ul style="list-style-type: none"> <li>• Assist - cases</li> </ul>	<ul style="list-style-type: none"> <li>• Record book</li> </ul>

# Medical Surgical Nursing (Adult including Geriatrics) - II

Placement : FIFTH SEMESTER

Time : Theory – 120 hours  
Practical – 470 hours

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment Method
I	15	<ul style="list-style-type: none"> <li>Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear Nose and Throat</li> </ul>	<p><b>Nursing management of patient with disorders of Ear Nose and Throat</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of the Ear Nose and Throat-</li> <li>Nursing Assessment-History and Physical assessment</li> <li>Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of Ear Nose and Throat disorders;               <ul style="list-style-type: none"> <li>External ear: deformities otalgia, foreign bodies, nd tumours</li> <li>Middle Ear-Impacted was, Tympanic membrane perforation, otitis media, otosclerosis, mastoidities, tumours</li> <li>Inner ear-Meniére’s Disease, labyrinthitis, ototoxicity, tumours</li> <li>Upper airwy infections- Common cold, sinusitis, <u>ethinitis</u> rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsilar abscess, laryngitis</li> </ul> </li> <li>Upper respiratory airway- epistaxis, Nasal obstruction, laryngeal obstruction, cancer of the larynx</li> </ul> <p>Cancer of the oral cavity</p>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explain using Charts, graphs</li> <li>Models, films, slides</li> <li>Demonstruation</li> <li>Practice session</li> <li>Case discussion/Seminar</li> <li>Health education</li> <li>Supervised clinical practice</li> </ul> <p>Drug book/presentation</p>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> <li>Objective type</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment Method
			<ul style="list-style-type: none"> <li>• Speech defects and therapy</li> <li>• Deafness –</li> <li>• Prevention, control and rehabilitation</li> <li>• Hearing Aids, implanted hearing devices</li> </ul> Special therapies Nursing procedures Drugs used in treatment of disorders of Ear Nose and Throat Role of nurse Communicating with hearing impaired and muteness.		
II	15	<ul style="list-style-type: none"> <li>• Describe the etiology, path physiology, clinical manifestations diagnostic measures and management of patients with disorders of eye.</li> </ul>	<b>Nursing management of patient with disorders of eye</b> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of the eye</li> <li>• Nursing Assessment-History and Physical assessment</li> <li>• Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of eye disorders:               <ul style="list-style-type: none"> <li>○ Refractive errors</li> <li>○ Eyelids-infection, tumours and deformities</li> <li>○ Conjunctiva-inflammation and infection, bleeding</li> <li>○ Cornea-inflammation and infection</li> <li>○ Lens-Cataracts</li> <li>○ Glaucoma</li> <li>○ Disorder of the uveal tract,</li> <li>○ Ocular tumours</li> <li>○ Disorders of posterior chamber and retina: Retinal and vitreous problems.</li> <li>○ Retinal detachment</li> <li>○ Ocular emergencies and their prevention</li> </ul> </li> <li>• Blindness</li> <li>• National blindness control program               <ul style="list-style-type: none"> <li>○ Eye Banking</li> </ul> </li> </ul> Eye prostheses and Rehabilitation Role of a nurse-Communication	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussion/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice/presentation</li> <li>• Visit to eye bank</li> <li>• Participation in eye-camps</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment Method
			with visually impaired patient, Eye camps Special therapies Nursing procedures Drugs used in treatment of disorders of eye		
III	16	<ul style="list-style-type: none"> <li>Describe the etiology, path physiology, clinical manifestations diagnostic measures and management of patients with neurological disorders.</li> </ul>	<p><b>Nursing management of patient with neurological disorders</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of the neurological system</li> <li>Nursing Assessment-History and Physical and neurological</li> <li>Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of neurological disorders: <ul style="list-style-type: none"> <li>Congenital malformation</li> <li>Headache</li> <li>Spinal Injuries: <ul style="list-style-type: none"> <li>Hemiplegia</li> <li>Quadraplegia</li> </ul> </li> <li>Spinal cord compression-herniation of intervertebral disc</li> <li>Tumors of the brain &amp; spinal cord</li> <li>Intra cranial and cerebral aneurysms</li> <li>Infections: <ul style="list-style-type: none"> <li>Meningitis, Encephalitis, Brain abscess, neurocysticercosis</li> </ul> </li> <li>Movement disorders <ul style="list-style-type: none"> <li>Chorea</li> <li>Seizures</li> <li>Epilepsies</li> </ul> </li> <li>Cerebro Vascular Accident (CVA)</li> <li>Cranial, Spinal Neuropathies-Bell's palsy, trigeminal neuralgia</li> <li>Peripheral Neuropathies; Guillain-Barr's Syndrome</li> <li>Myasthenia gravis</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explain using Charts, graphs</li> <li>Models, films, slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussion/Seminar</li> <li>Health education</li> <li>Supervised clinical practice/presentation</li> <li>Drug book/presentation</li> <li>Visit to rehabilitation center</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> <li>Objective type</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management problem</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment Method
			<ul style="list-style-type: none"> <li>• Content Multiple sclerosis               <ul style="list-style-type: none"> <li>○ Degenerative disease</li> <li>○ Delirium</li> <li>○ Dementia</li> <li>○ Alzheimer's disease</li> <li>○ Parkinson's disease</li> </ul> </li> <li>• Management of unconscious patients and patients with stroke</li> <li>• Role of the nurse in communicating with patient having neurological deficit</li> <li>• Rehabilitation of patients with neurological deficit</li> </ul> <p>Role of nurse in long stay facility (institutions) and at home Special therapies Nursing procedures Drugs used in treatment of neurological disorders</p>		
IV	16	<ul style="list-style-type: none"> <li>• Describe the etiology, path physiology, clinical manifestations diagnostic measures and nursing management of patients with disorders of female reproductive system</li> <li>• Describe concepts of reproductive health and family welfare programme</li> </ul>	<p><b>Nursing management of patient with disorders of female reproductive system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of the female reproductive system</li> <li>• Nursing Assessment-History and Physical assessment.</li> <li>• Breast Self Examination</li> <li>• Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of disorders of female reproductive system</li> <li>• Congenital abnormalities of female reproductive system</li> <li>• Sexuality and Reproductive Health</li> <li>• Sexual Health Assessment</li> <li>• Menstrual Disorders; Dysmenorrhea, Premenstrual Syndrome</li> <li>• Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia</li> <li>• Pelvic Inflammatory Disease</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussion/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice/presentation</li> <li>• Drug book/presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<ul style="list-style-type: none"> <li>• Ovarian and fallopian tube disorders; infections, cysts, tumours</li> <li>Uterine and cervical disorders, Endometriosis, polyps, Fibroids, Cervical and uterine tumours,</li> <li>Uterine displacement, Cystocele/Urethrocele/Rectocele</li> <li>• Vaginal disorders; Infections, cysts, tumours</li> <li>• Diseases of breasts; Deformities, Infections, Cysts and Tumours</li> <li>• Menopause and Hormonal Replacement Therapy</li> <li>• Infertility</li> <li>• Contraception; Types Methods, Risk and effectiveness <ul style="list-style-type: none"> <li>○ Spacing Methods <ul style="list-style-type: none"> <li>Barrier methods, Intra Uterine Devices,</li> <li>Hormonal,</li> <li>Post Conceptional Methods, etc</li> </ul> </li> <li>○ Terminal methods - Sterilization</li> </ul> </li> <li>• Emergency Contraception methods</li> <li>• Abortion – Natural, Medical and surgical abortion – MTP Act</li> <li>• Toxic Shock Syndrome</li> <li>• Injuries and Trauma; Sexual violence</li> </ul> <p>Special therapies Nursing procedures Drugs used in treatment of gynecological disorders National family welfare programme</p>		
V	10	<ul style="list-style-type: none"> <li>• Describe the etiology, path physiology, clinical</li> </ul>	<p><b>Nursing management of patient with Burs, reconstructive and cosmetic surgery</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of skin and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films,</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective</li> </ul>

		<p>manifestations diagnostic measures and nursing management of patients <b>with Burns, reconstructive and cosmetic surgery</b></p>	<p>connective tissues and various deformities</p> <ul style="list-style-type: none"> <li>• Nursing Assessment-History and Physical assessment and Assessment of burns and fluid and electrolyte loss.</li> </ul> <p>Etiology, Classification, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical</p>	<p>slides</p> <ul style="list-style-type: none"> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussion/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> </ul>	<p>type</p> <ul style="list-style-type: none"> <li>• Assessment of skills with check list</li> </ul> <p>Assessment of patient management problem</p>
			<p>Nursing management of Burns and Re-constructive and Cosmetic surgery;</p> <ul style="list-style-type: none"> <li>• Types of Re-constructive and Cosmetic surgery; for burns, congenital deformities, injuries and cosmetic purposes</li> <li>• Role of Nurse</li> <li>• Legal aspects</li> <li>• Rehabilitation</li> <li>• Special therapies <ul style="list-style-type: none"> <li>○ Psycho social aspects</li> </ul> </li> </ul> <p>Nursing procedures Drugs used in treatment of Burns, reconstructive and cosmetic surgery</p>	<ul style="list-style-type: none"> <li>• Drug book/presentation</li> </ul>	
VI	10	<ul style="list-style-type: none"> <li>• Describe the etiology, path physiology, clinical manifestations diagnostic measures and nursing management of patients with oncology</li> </ul>	<p><b>Nursing management of patient with oncological conditions</b></p> <ul style="list-style-type: none"> <li>• Structure &amp; characteristics of normal &amp; cancer cells</li> <li>• Nursing Assessment-History and Physical assessment</li> <li>• Prevention, Screening, Early detection, Warning signs of cancer</li> <li>• Epidemiology, Etiology, Classification, Path physiology, Staging, clinical manifestations, diagnosis, treatment of oncological conditions</li> <li>• 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</li> <li>• Oncological emergencies</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussion/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice/presentation</li> <li>• Drug book/presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<ul style="list-style-type: none"> <li>• Modalities of treatment <ul style="list-style-type: none"> <li>○ Immunotherapy</li> <li>○ Chemotherapy</li> <li>○ Radiotherapy</li> <li>○ Surgical Interventions</li> <li>○ Stem cell and Bone marrow transplants</li> <li>○ Gene therapy</li> <li>○ Other forms of treatment</li> </ul> </li> <li>*Psycho social aspects of cancer</li> <li>*Rehabilitation</li> <li>*Palliative care; Symptom and Pain management, Nutritional support</li> <li>*Home care</li> <li>*Hospice care</li> <li>*Stomal Therapy</li> <li>*Special therapies <ul style="list-style-type: none"> <li>- Psycho social aspects</li> </ul> </li> <li>*Nursing procedures</li> </ul>		
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VII	10	<p>*Describe organization of emergency and disaster care services</p> <p>*Describe the role of nurse in disaster management</p> <p>*Describe the role of nurse in management of common Emergencies</p>	<p><b>Nursing management of patients in EMERGENCY &amp; DISASTER situations</b></p> <p><b>Disaster Nursing:</b></p> <p>*Concepts and principles of Disaster Nursing</p> <p>*Causes and Types of Disaster: Natural and Man made</p> <p>- Earthquakes, Floods, Epidemics, Cyclones</p> <p>- Fire, Explosion, Accidents</p> <p>- Violence, Terrorism, Bio chemical, War</p> <p>*Policies related to emergency / disaster management: International, National, State and Institutional</p> <p>*Disaster preparedness</p> <p>*Team, Guidelines, Protocols, Equipments, Resources</p> <p>*Co-ordination and involvement of Community, various Government departments, Non Govt. organizations and International Agencies</p> <p>*Role of nurse : working</p> <p>*Legal Aspects of Disaster Nursing</p>	<p>*Lecture</p> <p>Discussion</p> <p>*Explain using charts, graphs</p> <p>*Models, Films, Slides</p> <p>*Demonstration</p> <p>*Practice session</p> <p>*Case discussions/ Seminar</p> <p>*Health education</p> <p>*Supervised clinical practice</p> <p>*Disaster management Drills</p> <p>*Drug book / presentation</p>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
			<p>*Impact of Health after effects: Post traumatic stress disaster</p> <p>*Rehabilitation: Physical, Psycho social, Financial, Relocation</p> <p><b>Emergency Nursing</b></p> <p>*Concept, priorities, principles and scope of emergency nursing</p> <p>*Organization of emergency services: physical set up, staffing, equipment and supplies, protocols, concepts of triage and role of triage nurse</p> <p>*Co ordination and involvement of different departments and facilities</p> <p>*Nursing assessment - History and Physical assessment</p> <p>*Etiology, Patho physiology, Clinical manifestations, Diagnosis, Treatment modalities and medical surgical nursing management of patient with medical surgical emergency</p> <p>*Principles of emergency</p>		

			<p>management</p> <ul style="list-style-type: none"> <li>*Common emergencies</li> <li>*Respiratory emergencies</li> <li>*Cardiac emergencies</li> <li>*Shock and Hemorrhage</li> <li>*Pain</li> <li>*Poly trauma, road accidents, crush injuries, wound</li> <li>*Seizures</li> <li>*Thermal Emergencies: Heat stroke &amp; cold injuries</li> <li>*Pediatric emergencies</li> <li>*Psychiatric emergencies</li> <li>*Obstetrical emergencies</li> <li>*Violence, Abuse, Sexual assault</li> <li>*Cardio pulmonary resuscitation</li> <li>*Crisis intervention</li> <li>*Role of nurse: Communication and Inter Personal Relations</li> <li>*Medico- legal Aspects</li> </ul>		
	10	-Explain the concept and problems of aging	<p><b>Nursing care of the elderly</b></p> <ul style="list-style-type: none"> <li>-Nursing assessment –history and physical assessment</li> <li>-Aging;</li> <li>-Demography; Myths and realities</li> <li>-Concepts and theories of aging</li> <li>-Cognitive aspects of aging</li> <li>-Normal biological aging</li> <li>-Age related body systems changes</li> <li>-Pysocial aspects of aging</li> <li>-medications and elderly</li> <li>-Stress and coping in older adults</li> <li>-Common health problems and nursing management;</li> <li>-Cardiovascular, respiratory, Musculoskeletal,</li> <li>-Endocrine,genito-urinary,gastrointestinal</li> <li>-Neurological, skin and other sensory organs</li> <li>-Psychosocial and sexual</li> <li>-Abuse of elderly</li> <li>-Role of nurse for care of elderly: ambulation ,Nutritional,communicational,psyc hosocial,and spiritual</li> <li>-Role of nurse for caregivers of elderly</li> <li>-Role of family and formal and</li> </ul>	<p>Lectur Discussion</p> <ul style="list-style-type: none"> <li>-Explain using charts,,graphs, Models,films, Slides</li> <li>-Demonstration</li> <li>-practice session</li> <li>-case discussion /seminar</li> <li>-health education</li> <li>-supervised clinical practice</li> <li>-Drug book /presentation</li> <li>-Visit to old age home</li> </ul>	<ul style="list-style-type: none"> <li>-Eassy type</li> <li>-short answers</li> <li>-objective type</li> <li>-Assessment of skills with checklist</li> <li>-assessment patient management problems</li> </ul>

			<ul style="list-style-type: none"> <li>non-formal care givers</li> <li>-use of aids and prosthesis (hearing aids, dentures)</li> <li>-legal and ethical issues</li> <li>-Provisions and programmes for elderly; privileges, community programmes and health services;</li> <li>-home and institutional care</li> </ul>		
IX	10	<ul style="list-style-type: none"> <li>-Describe organization of critical care units</li> <li>-Describe the role of nurse in management of patients critical care units</li> </ul>	<p><b>Nursing management of patient in critical care units</b></p> <ul style="list-style-type: none"> <li>-Nursing assessment-History and physical assessment</li> <li>-Classification</li> <li>-Principles of critical care nursing</li> <li>-Organization; Physical setup, policies, Staffing norms, protocols, equipment and supplies</li> <li>-Special equipments; ventilators, cardiac monitors, defibrillators,</li> <li>-Resuscitation equipments</li> <li>-Infection control protocols</li> <li>-Nursing management of critically patients;</li> <li>-Monitoring of critically ill patient</li> <li>-CPR-Advance cardiac Life support</li> <li>-Treatments and procedures</li> <li>-Transitional care</li> <li>-Ethical and legal Aspects</li> <li>-Communication with patient and family</li> <li>-Intensive care records</li> <li>-Crisis Intervention</li> <li>-Death and Dying –coping with</li> <li>-Drugs used in critical care unit</li> </ul>	<p>Lectur Discussion</p> <ul style="list-style-type: none"> <li>-Explain using charts,, graphs, models, films, slides</li> <li>-Demonstration</li> <li>-Role plays</li> <li>-Counselling</li> <li>-practice session</li> <li>-case discussion /seminar</li> <li>-health education</li> <li>-supervised clinical practice</li> <li>-Drug book /presentation</li> </ul>	<ul style="list-style-type: none"> <li>-Eassy type</li> <li>-short answers</li> <li>-objective type</li> <li>-Assessment of skills with checklist</li> <li>-assessment patient management problems</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment Method
X	8	-Describe the etiology,patho physiology,clinical manifestations , assessment,di agnostic measures and management of patients with occupational and industrial health disorder	<b>Nursing management of patients adults including elderly with occupational and Industrial disorders</b> -Nursing assessment –History and physical assessment -Etiology, pathophysiology ,clinical manifestations ,diagnosis ,treatment modalities and medical & surgical nursing management of occupational and industrial health disorders -Role of nurse .Special therapies, alternative therapies, Nursing procedures -Drug used in treatment of occupational and industrial disorders		

**Bibliography:****Textbook:**

1. Brunner, Medical Surgical Nursing, Elsevier ,11<sup>th</sup> edition

**Suggested Reference:**

1. Hughes (P) , Clinical Practice Protocols in Oncology Nursing, Jones & Bartlet, 2007
2. Hickey, The Clinical Practice of Neurological & Neurosurgical Surgical Nursing, Lippincott, 5<sup>th</sup> Edition.
3. Hudak, Critical Care Nursing: A Holistic Approach, Lippincott, 7<sup>th</sup> edition.
4. Kaplow, Cricital Care Nursing: Surgery for Optimal Outcomes, Jones & Bartlet, 2007.
5. Dhiagra, Ear Nose and Throat
6. Maqboal,Textbook of Ear, Nose & Throat Diisease, Jaypee,10<sup>th</sup> edition.
7. Nema (HV), Textbook of Opthmology, Jaypee, 4<sup>th</sup> edition.
8. Padmini (HR), Opthamology, Ahuja Publishing House, 2<sup>nd</sup> edition.
9. Bhihoto, Parson's Disease of the Eye, Elsevier,19<sup>th</sup> edition.

# Medical Surgical Nursing (Adult and Geriatrics) – II Practical

**Placement:** FIFTH SEMESTER

**Time:** Theory 120 Hrs.  
Practical 470 Hrs

Areas	Duration (in wks)	Objectives of posting	Skills to be developed	Assignments	Assessment methods
ENT	1	<ul style="list-style-type: none"> <li>*Provide care to patients with ENT disorders</li> <li>*Counsel and educate patient and families</li> </ul>	<ul style="list-style-type: none"> <li>*Perform examination of ear, nose and throat</li> <li>*Assist with diagnostic procedures</li> <li>*Assist with therapeutic procedures</li> <li>*Instillation of drops</li> <li>*Perform / assist with irrigations</li> <li>*Apply ear bandage</li> <li>*Perform tracheostomy care</li> <li>*Teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>*Provide care to 2 -3 assigned patients</li> <li>*Nursing care plan – 1</li> <li>*Observation reports of OPD</li> <li>*Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>*Assess each skill with checklist</li> <li>*Assess performance with rating scale</li> <li>*Evaluation of observation report of OPD</li> <li>*Completion of activity record</li> </ul>
Ophthalmology	1	<ul style="list-style-type: none"> <li>*Provide care to patients with Eye disorders</li> <li>*Counsel and educate patient and families</li> </ul>	<ul style="list-style-type: none"> <li>*Perform examination of eye</li> <li>* Assist with diagnostic procedures</li> <li>*Assist with therapeutic procedures</li> <li>*Perform / assist with irrigations</li> <li>*Apply eye bandage</li> <li>*Apply eye drops / ointments</li> <li>*Assist with foreign body removal</li> <li>*Teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>*Provide care to 2 -3 assigned patients</li> <li>*Nursing care plan – 1</li> <li>*Observation reports of OPD and eye bank</li> <li>*Maintain drug book</li> </ul>	

Areas	Duration (in wks)	Objectives of posting	Skills to be developed	Assignments	Assessment methods
Neurology	2	*Provide care to patients with Neurological disorders *Counsel and educate patient and families	*Perform Neurological examination *Use Glsow Coma Scale * Assist with diagnostic procedures *Assist with therapeutic procedures *Teach patients and families *Participate in Rehabilitation program		
			<input type="checkbox"/> Bathing <input type="checkbox"/> Dressing <ul style="list-style-type: none"> <li>• Perform active &amp; passive exercises</li> <li>• Practice medical &amp; surgical asepsis</li> <li>• Counsel &amp; Teach patients and families</li> <li>• Participate in rehabilitation program</li> </ul>		

Oncology Unit	1	<p>Provide care to patients with cancer</p> <p>Counsel and educate patient and families</p>	<p>Screen for common cancers – TNM classification</p> <p>Assist with diagnostic procedures</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Biopsies</li> <li><input type="checkbox"/> Pap smear</li> <li><input type="checkbox"/> Bone – marrow aspiration</li> </ul> <p>Breast examination</p> <p>Assist with therapeutic</p> <p>Participates in various modalities of treatment</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Chemotherapy</li> <li><input type="checkbox"/> Radiotherapy</li> <li><input type="checkbox"/> Pain management</li> <li><input type="checkbox"/> Stomach therapy</li> <li><input type="checkbox"/> Hormonal therapy</li> <li><input type="checkbox"/> Immunotherapy</li> <li><input type="checkbox"/> Gene therapy</li> <li><input type="checkbox"/> Alternative therapy</li> </ul> <p>Participate in palliative care</p> <p>Counsel and teach patients families</p>	<p>Provide care to 2-3 assigned patients.</p> <p>Nursing care plan – 1</p> <p>Observation report of cancer unit</p>	<p>Assess each skill with check list.</p> <p>Assess performance with rating scale.</p> <p>Evaluation of care plan and observation report.</p> <p>Completion of activity record.</p>
			<ul style="list-style-type: none"> <li><input type="checkbox"/> Self Breast Examination</li> <li><input type="checkbox"/> Warning signs</li> </ul> <p>Participate in rehabilitation program</p>		Activity record



Areas	Duration (in wks)	Objectives of posting	Skills to be developed	Assignments	Assessment methods
Critical Care Unit	2	<p>Provide care to critically ill patients</p> <p>Counsel patient and families for grief and bereavement.</p>	<p>Monitoring of patients in ICU</p> <p>Maintain flow sheet</p> <p>Care of patient on ventilators</p> <p>Perform Endotracheal suction</p> <p>Demonstrates use of ventilators, cardiac monitors etc.</p> <p>Collect specimens and interprets ABG analysis</p> <p>Assists with arterial puncture</p> <p>Maintain CVP line</p> <p>Pulse Oximetry</p> <p>CPR – ALS</p> <p>Defibrillators</p> <p>Pace makers</p> <p>Bag-mask ventilation</p> <p>Emergency tray / trolley – Crash Cart</p> <p>Administration of drugs</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Infusion pump</li> <li><input type="checkbox"/> Epidural</li> <li><input type="checkbox"/> Intra thecal</li> <li><input type="checkbox"/> Intracardiac</li> <li><input type="checkbox"/> Total parenteral therapy</li> <li><input type="checkbox"/> Chest physiotherapy</li> <li><input type="checkbox"/> Perform active &amp; passive exercises</li> </ul> <p>Counsel the patient and family in dealing with grieving and bereavement.</p>	<p>Provide care to 1 assigned patient.</p> <p>Observation report of critical care unit</p> <p>Drugs book.</p>	<p>Assess each skill with check list.</p> <p>Assess performance with rating scale.</p> <p>Evaluation of observation report.</p> <p>Completion of activity record.</p> <p>Activity record</p>

Areas	Duration (in wks)	Objectives of posting	Skills to be developed	Assignments	Assessment methods
Casualty / Emergency	1	Provide care to patients in emergency and disaster situation.  Counsel patient and families for grief and bereavement.	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.	Observation report of Emergency unit	Assess performance with rating scale. Evaluation of observation report. Completion of activity record.

**Placement :**

**Time : 9 Weeks**

Area	Duration (in week)	Objective	Skills	Assessment
Medical Ward	2	Provide comprehensive care to patients with medical and surgical conditions including emergencies	Integrated Practice	Assess Clinical performance with rating scale
Surgical ward	2			
Critical care unit / ICU	1	Assist with common operations		
Operation Theatre (Eye, ENT, Neuro)	2			

# COMMUNITY HEALTH NURSING – II

**Placement** : SIXTH SEMESTER

**Time** : Theory 90 hours  
Practical – 330 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.

Unit	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
I	4	<ul style="list-style-type: none"> <li>Define concepts, scope, principles and historical development of community Health and community health Nursing</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>Definition, concept &amp; scope of community Health and Community Health Nursing</li> <li><u>Historical development of</u> <ul style="list-style-type: none"> <li>Community health</li> <li>Community health Nursing.                             <ul style="list-style-type: none"> <li>Pre - independence</li> <li>Post-independence</li> </ul> </li> </ul> </li> </ul>	Lecture discussion	Essay type Short answers
II	6	<ul style="list-style-type: none"> <li>Describe health plans, policies, various health committees and health problems in India</li> </ul>	<p><b>Health planning and policies and problems</b></p> <ul style="list-style-type: none"> <li>National health planning in India – Five Year Plans</li> <li>Various committees and commissions on health and family welfare                             <ul style="list-style-type: none"> <li>Central council for health and family welfare (CCH and FW)</li> <li>National health policies (1983, 2002)</li> <li>National population policy</li> </ul> </li> <li>Health problems in India</li> </ul>	Lecture discussion Panel discussion	Essay type Short answers
III	15	<ul style="list-style-type: none"> <li>Describe the system of delivery of community health services in rural and urban areas</li> </ul>	<p><b>Delivery of community health services</b></p> <ul style="list-style-type: none"> <li>Planning, budgeting and material management of SCs, PHC and, CHC</li> <li>Rural : Organization, staffing and functions of rural health services provided by government at:</li> </ul>	Lecture discussion Visits to various health delivery systems Supervised field practice Panel discussion	Essay type Short answers

Unit	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Method
		<p>List the functions of various levels and their staffing pattern</p> <p>Explain the components of health services</p> <p>Describe alternative systems of health promotion and health maintenance</p> <p>Describe the chain of referral system</p>	<p>Village Sub centre Primary health centre Community health center / sub divisional Hospitals District State Centre</p> <p>Urban : Organization, staffing and functions of urban health services provided by government at:</p> <p>Slums Dispensaries Maternal and child health centers Special Clinics Hospitals Corporation / Municipality / Board</p> <ul style="list-style-type: none"> <li>• Components of health services <ul style="list-style-type: none"> <li>○ Environmental sanitation</li> <li>○ Health education</li> <li>○ Vital statistics</li> <li>○ M.C.H – antenatal, natal, postnatal MTP Act, female foeticide act, child adoption act</li> <li>○ Family Welfare</li> <li>○ National health programmes</li> <li>○ School health services</li> <li>○ Occupational health</li> <li>○ Defence services</li> </ul> </li> <li>• Systems of Medicine and health care <ul style="list-style-type: none"> <li>Allopathy <ul style="list-style-type: none"> <li>○ Indian System of Medicine and</li> <li>○ Homeopathy</li> <li>○ Alternative health care systems like yoga, meditation, social and spiritual healing etc.</li> </ul> </li> </ul> </li> </ul> <p>Referral system</p>		

Unit	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Method
IV	25	<p>Describe community Health Nursing approaches and concepts</p> <p>Describe the roles and responsibilities of Community health nursing personnel</p>	<p><b>Community health nursing approaches, concepts and roles and responsibilities of nursing personnel.</b></p> <p>*Approaches</p> <ul style="list-style-type: none"> <li>- Nursing theories and Nursing process</li> <li>- Epidemiological approach</li> <li>- Problem solving approach</li> <li>- Evidence based approach</li> <li>- Empowering people to care for themselves</li> </ul> <p>*Concepts of Primary Health Care:</p> <ul style="list-style-type: none"> <li>- Equitable distribution</li> <li>- Community participation</li> <li>- Focus on prevention</li> <li>- Use of appropriate technology</li> <li>- Multi-sectoral approach</li> </ul> <p>*Roles and responsibilities of Community health nursing personnel in</p> <ul style="list-style-type: none"> <li>- Family health services</li> <li>- Information Education</li> <li>- Communication (IEC)</li> <li>- Management information (MIS): Maintenance of Records &amp; Reports</li> <li>- Training and supervision of various categories of health workers</li> <li>- National Health Programmes</li> <li>- Environmental sanitation</li> <li>- Maternal and Child health and Family welfare</li> <li>- Treatment of minor ailments</li> <li>- School Health Services</li> <li>- Occupational Health</li> <li>- Organization of clinics, camps: Types, Preparation, Planning, conduct and evaluation</li> <li>- Waste management in the center, clinics etc.,</li> <li>- Home visit: Concept, Principles, Techniques: Bag technique home visit</li> </ul> <p>*Qualities of Community Health Nurse</p> <p>th nursing personnel *Job description of Community health nursing personnel</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised field practice</li> <li>• Participation in camps</li> <li>• Group Project</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Method
V	15	Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health	<p><b>Assisting individuals and groups to promote and maintain their health.</b></p> <ul style="list-style-type: none"> <li>• Empowerment for self care of individual, families and groups in –</li> </ul> <p><b>Assessment of self and family</b></p> <p>Monitoring growth and development</p> <ul style="list-style-type: none"> <li>-- Mile stones</li> <li>-- Weight measurement</li> <li>-- Social development</li> <li>○ Temperature and Blood pressure monitoring</li> <li>○ Menstrual cycle</li> <li>○ Breast self examination and testicles</li> <li>○ Warning signs of various diseases</li> <li>○ Tests : Urine for sugar and albumin, blood sugar</li> </ul> <p><b>Seek health services for</b></p> <p>Routine checkup Immunization Counseling Diagnosis Treatment Follow up</p> <p><b>C. Maintenance of Health records for self and family</b></p> <p><b>D. Continue medical care and follow up in community for various diseases and disabilities</b></p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised field practice</li> <li>• Individual / group / family / Community health education.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• short answers</li> </ul>
			<p><b>E. Carryout therapeutic procedures as prescribed / required for self and family</b></p> <p><b>F. Waste Management</b></p> <ul style="list-style-type: none"> <li>• Collection and disposal of waste at home and community</li> </ul> <p><b>G. Sensitize and handle social issues affecting health and development for self and family</b></p> <ul style="list-style-type: none"> <li>• Women Empowerment</li> <li>• Women and child abuse</li> <li>• Abuse of elders</li> </ul>		

			<ul style="list-style-type: none"> <li>• Female Foeticide</li> <li>• Commercial sex workers</li> <li>• Food adulteration</li> <li>• Substance abuse</li> </ul> <p><b>H. Utilize community resources for self and family</b></p> <ul style="list-style-type: none"> <li>○ Trauma services</li> <li>○ Old age homes</li> <li>○ Orphanage</li> <li>○ Homes for physically and mentally challenged individuals</li> <li>○ Homes for destitute</li> </ul>		
VI	20	Describe and national health and family welfare programmes and role of a nurse Describe the various health schemes in India	<p><b>National health and family welfare programmes and the role of a nurse.</b></p> <ol style="list-style-type: none"> <li>1) National ARI Programme</li> <li>2) Revised National Tuberculosis Control Programme (RNTCP)</li> <li>3) National Anti-Malaria Programme</li> <li>4) National Filariasis control programme</li> <li>5) National Guinea worm eradication programme</li> <li>6) National Leprosy eradication programme</li> </ol>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Participation in National Health Programmes</li> <li>• Field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• short answers</li> </ul>
			<ol style="list-style-type: none"> <li>7) National AIDS control programme</li> <li>8) STD control programme</li> <li>9) National programme for control of blindness</li> <li>10) Iodine deficiency disorder programme</li> <li>11) Expanded programme on immunization</li> <li>12) National Family Welfare Programme – RCH Programme historical development, organization, administration, Research, constraints</li> <li>13) National water supply and sanitation programme</li> <li>14) Minimum Need programme</li> <li>15) National Diabetics control programme</li> <li>16) Polio Eradication : Pulse Polio Programme</li> <li>17) National cancer control Programme</li> <li>18) Yaws Eradication Programme</li> <li>19) National Nutritional Anemia</li> </ol>		

			prophylaxis programme 20) 20 point programme 21) ICDS programme 22) Mid-day meal applied nutritional programme 23) National mental health programme • Helath <ul style="list-style-type: none"> <li>○ ESI</li> <li>○ CGHS</li> <li>○ Health insurance</li> </ul>		
VII	5	Explain the roles and functions of various national and international 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 Association of India (FPAI), Tuberculosis Association of India, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All India Women’s conference, Blind Association of India etc.	• Lecture discussion • Field visits	• Essay type • Short answers

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# Community Health Nursing–II – Practical

Placement : SIXTH SEMESTER

Time: Practical 330 Hours

Areas	Duration (in week)	Objectives	Skills	Assignments	Assignment Method
Community Health nursing	1 week for urban 4 week for rural	<ul style="list-style-type: none"> <li>• Identify community profile</li> <li>• Identify prevalent communicable and non-communicable diseases</li> <li>• Diagnose health needs of Individual, families and community</li> <li>• Plan, provide and evaluate care</li> <li>• Participate in school health program</li> <li>• Participate in national health programmes</li> <li>• Organise group for self help and involve clients in their own health activities</li> <li>• Provide family welfare services</li> <li>• Counsel and educate</li> </ul>	<ul style="list-style-type: none"> <li>• Community health survey</li> <li>• Community diagnosis</li> <li>• Family care : Home adaptation of common procedures</li> <li>• Home visit : Bag technique</li> <li>• Organize and conduct clinics antenatal, post natal, well baby clinic, camps etc.</li> <li>• Screen manage and referrals for:               <ul style="list-style-type: none"> <li>○ High risk mothers and neonates</li> <li>○ Accidents and emergencies</li> <li>○ Illnesses : Physical and mental</li> <li>○ Disabilities</li> </ul> </li> <li>• Conduct delivery at centre / home : episiotomy and suturing</li> <li>• Resuscitate newborn</li> <li>• School Health Programme               <ul style="list-style-type: none"> <li>○ Screen, manage, refer children</li> </ul> </li> <li>• Collaborate with health and allied agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Community survey report – 1</li> <li>• Family care study – 1</li> <li>• Project – 1</li> <li>• Health talk – 1</li> <li>• Case book recording</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Evaluation of community survey report, family care study, project and health talk</li> <li>• Completion of case book recording</li> </ul>

		Individual, family and community <ul style="list-style-type: none"> <li>• Collect Vital health statistics</li> <li>• Maintain Records &amp; Reports</li> </ul>	<ul style="list-style-type: none"> <li>• Train and Supervise health workers</li> <li>• Provide family welfare services : insertion of IUD</li> <li>• Counsel and teach individual, family and community about : HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly's health, physically and mentally challenged individuals etc.</li> <li>• Collect and Calculate Vital health statistics</li> <li>• Document and maintain</li> </ul>		
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**Placement :**

**Time : 4 Weeks**

<b>Area</b>	<b>Duration (in week)</b>	<b>Objective</b>	<b>Skills</b>	<b>Assessment</b>
Urban	4Weeks	<ul style="list-style-type: none"> <li>• Provide comprehensive care to individual, family and community</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Practice and group project 1 in each rural and urban</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Evaluation of project</li> </ul>

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

# Mental Health Nursing

**Placement:** SIXTH SEMESTER

**Time:** Theory - 90 Hrs.  
Practicals – 365 Hrs.

**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.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
<b>I</b>	5	<ul style="list-style-type: none"> <li>*Describe the historical development &amp; current trends in mental health nursing</li> <li>*Describe the epidemiology of mental health problems</li> <li>*Describe the National Mental Health Act</li> <li>*Discuss the scope of mental health nursing</li> <li>*Describe the concept of normal &amp; abnormal behaviour</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>*Perspective of Mental Health and Mental Health Nursing: evolution of mental health services, treatments and nursing practices.</li> <li>*Prevalence and incidence of mental health problems and disorders.</li> <li>*Mental Health Act</li> <li>*National Mental Health Policy vis a vis National Health Policy</li> <li>*Mental health team</li> <li>*Nature and scope of mental health nursing</li> <li>*Role and functions of mental health nurse in various settings and factors affecting</li> <li>*Concepts of normal and abnormal behaviour</li> </ul>	*Lecture Discussion	<ul style="list-style-type: none"> <li>*Objective type</li> <li>*Short answer</li> <li>*Assessment of the field visit reports</li> </ul>
<b>II</b>	5	<ul style="list-style-type: none"> <li>*Define the various terms used in mental health Nursing</li> </ul>	<p><b>Principles and Concepts of Mental Health Nursing</b></p> <ul style="list-style-type: none"> <li>*Definition: Mental health nursing and terminology used</li> <li>*Classification of mental disorders: ICD</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture discussion</li> <li>*Explain using Charts</li> <li>*Review of personality development</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type</li> <li>*Short answers</li> <li>*Objective type</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		*Explain the classification of mental disorders *Explain psychodynamics 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	*Review of personality development, defense mechanisms *Maladaptive behaviour of individuals and groups: stress, crisis and disasters *Etiology: Bio-psycho-social factors *Psychopathology of mental disorders: Review of structure and functions of brain, limbic system and abnormal neurotransmission *Principles of Mental health nursing practice *Conceptual models and the role of nurse: <ul style="list-style-type: none"> <li>- Existential Model</li> <li>- Psycho-analytical models</li> <li>- Behavioural models</li> <li>- Inter personal model</li> </ul>		
III	8	*Describe nature, purpose and process of assessment of mental health status	<b>Assessment of mental health status</b> *History taking *Mental status examination *Mini mental status examination *Neurological examination review *Investigations: Related Blood chemistry, EEG, CT,& MRI *Psychological tests Role and responsibilities of nurse	*Lecture discussion *Demonstration *Practice session *Clinical practice	*Short answers *Objective type *Assessment of skills with check list
IV	6	*Identify therapeutic communication techniques *Describe therapeutic relationship	<b>Therapeutic communication and nurse-patient relationship</b> *Therapeutic communication: Types, Techniques, Characteristics *Types of relationship, *Ethics and responsibilities	*Lecture discussion *Demonstration *Role play *Process recording	*Short answers *Objective type

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		*Describe therapeutic impasse and its intervention	*Elements of nurse patient contract *Review of technique of IPR – Johari Window *Goals, phases, tasks, therapeutic techniques *Therapeutic impasse and its intervention		
V	14	*Explain treatment modalities and therapies used in mental disorders and role of the nurse	<b>Treatment modalities and therapies used in mental disorders</b> *Psycho pharmacology *Psychological therapies: Therapeutic community, 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	*Lecture discussion *Demonstration *Group work *Practice session *Clinical practice	*Essay type *Short answers *Objective type
VI	5	*Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders	<b>Nursing management of patients with Schizophrenia, and other psychotic disorders</b> *Classification: ICD *Etiology, psycho-pathology, types, clinical manifestations, diagnosis *Nursing Assessment – History, Physical and Mental assessment *Treatment modalities and nursing management of patients with Schizophrenia, and other psychotic disorders	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			*Geriatric considerations *Follow-up and home care and rehabilitation		
VII	5	* Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with mood disorders	<b>Nursing management of patients with mood disorders</b> *Mood disorders: Bipolar affective disorder, Mania, Depression and Dysthymia etc., *Etiology, psycho-pathology, types, 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	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems
VIII	8	*Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatization disorders	<b>Nursing management of patients with neurotic, stress related and somatization disorders</b> *Anxiety disorders, phobias, Dissociation and Conversion disorders, Obsessive compulsive disorders, Somatoform disorders, Post traumatic stress disorders *Etiology, psycho-pathology, clinical manifestations, diagnosis *Nursing Assessment – History, Physical and Mental assessment *Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders *Geriatric considerations *Follow-up and home care and rehabilitation	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
IX	5	*Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders	<b>Nursing management of patients with substance use disorders</b> *Commonly used psychotropic substance: Classification, forms, routes, action, intoxication and withdrawal *Etiology of dependence: Tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis, *Nursing assessment – History, physical, mental assessment and drug assay *Treatment (Detoxification, antabuse and narcotic antagonist therapy and harm reduction) and nursing management of patients with substance use disorders *Geriatric considerations *Follow-up and home care and rehabilitation	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems
X	4	*Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with Personality, Sexual and Eating disorders	<b>Nursing management of patients with Personality, Sexual and Eating disorders</b> *Classification of disorders *Etiology, psychopathology, characteristics & diagnosis *Nursing assessment – History, physical, mental assessment *Treatment modalities and nursing management of patients with Personality, Sexual and Eating disorders *Geriatric considerations *Follow-up and home care and rehabilitation	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems
XI	6	*Describe the etiology, psychopathology, clinical	<b>Nursing management of childhood and adolescent disorders including mental deficiency</b> *Classification:	*Lecture discussion *Case discussion *Case	*Essay type *Short answers *Assessment

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		Manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency	*Etiology, psycho-pathology, characteristics & diagnosis Nursing assessment – History, physical, mental and IQ assessment *Treatment modalities and nursing management of childhood disorders including mental deficiency *Follow-up and home care and rehabilitation	Presentation *Clinical practice	Of the patient management problems
XII	5	*Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with organic brain disorders	<b>Nursing management of patients with organic brain disorders</b> *Classification:ICD *Etiology, psycho-pathology clinical features, diagnosis and differential diagnosis (Parkinson's and Alzheimers) *Nursing assessment – History, physical, mental and neurological assessment *Treatment modalities and nursing management of patients with organic brain disorders *Geriatric considerations *Follow-up and home care and rehabilitation	*Lecture discussion *Case discussion *Case presentation *Clinical practice	*Essay type *Short answers *Assessment of patient management problems
XIII	6	*Identify psychiatric emergencies and carryout crisis intervention	<b>Psychiatric emergencies and crisis intervention</b> *Types of psychiatric emergencies and their management *Stress adaptation model: Stress and stressors, 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	*Lecture discussion *Demonstration *Practice session *Clinical practice	*Short answers *Objective type



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
XIV	4	*Explain legal aspects applied in mental health settings and role of the nurse	<b>Legal issues in mental health nursing</b> *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	*Lecture discussion *Case discussion	*Short answers *Objective type
XV	4	*Describe the model of preventive psychiatry *Describe community mental health services and role of the nurse	<b>Community Mental Health Nursing</b> *Development of community mental health services *National Mental Health Programme *Institutionalization Versus De institutionalization *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.,	*Lecture discussion *Clinical / field practice *Field visits to mental health service agencies	*Short answers *Objective type *Assessment of the field visit reports

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8. Stuart (GW), Principles and Practice of Psychiatric Nursing, Elsevier, 8<sup>th</sup> Edition, 2005

# Mental Health Nursing – Practical

**Placement:** SIXTH SEMESTER

**Time:** Practical – 365 Hrs, (9 weeks)

Areas	Duration (in week)	Objectives	Skills	Assignments	Assignment Method
Psychiatric OPD	1	<ul style="list-style-type: none"> <li>*Assess patients with mental health problems</li> <li>*Observe and assist in therapies</li> <li>*Counsel and educate patient, and families</li> </ul>	<ul style="list-style-type: none"> <li>*History taking</li> <li>*Perform mental status examination (MSE)</li> <li>*Assist in Psychometric assessment</li> <li>*Perform Neurological examination</li> <li>*Observe and assist in therapies</li> <li>*Teach patients and family members</li> </ul>	<ul style="list-style-type: none"> <li>*History taking and Mental status examination – 2</li> <li>*Health education – 1</li> <li>*Observation report of OPD</li> </ul>	<ul style="list-style-type: none"> <li>*Assess performance with rating scale</li> <li>*Assess each skill with checklist</li> <li>*Evaluation of health education</li> <li>*Assessment of observation report</li> <li>*Completion of activity record.</li> </ul>
Child Guidance Clinic	1	<ul style="list-style-type: none"> <li>*Assessment of children with various mental health problems</li> <li>*Counsel and educate children, families and significant others</li> </ul>	<ul style="list-style-type: none"> <li>*History taking</li> <li>*Assist in psychometric assessment</li> <li>*Observe and assist in various therapies</li> <li>*Teach family and significant others</li> </ul>	<ul style="list-style-type: none"> <li>*Case work -1</li> <li>*Observation report of different therapies -1</li> </ul>	<ul style="list-style-type: none"> <li>*Assess performance with rating scale</li> <li>*Assess each skill with checklist</li> <li>*Evaluation of the observation report</li> </ul>
Inpatient ward	6	<ul style="list-style-type: none"> <li>*Assess patients with mental health problems</li> <li>*To provide nursing care for patients with various mental health problems</li> </ul>	<ul style="list-style-type: none"> <li>*History taking</li> <li>*Perform mental status examination (MSE)</li> <li>*Perform neurological examination</li> <li>*Assist in psychometric assessment</li> </ul>	<ul style="list-style-type: none"> <li>*Give care to 2-3 patients with various mental disorders</li> <li>*Case study -1</li> <li>*Care plan – 2</li> <li>*Clinical presentation -1</li> </ul>	<ul style="list-style-type: none"> <li>*Assess performance with rating scale</li> <li>*Assess each skill with checklist</li> <li>*Evaluation of the case study</li> </ul>

Areas	Duration (in week)	Objectives	Skills	Assignments	Assignment Method
		<ul style="list-style-type: none"> <li>*Assist in various therapies</li> <li>*Counsel and educate patients, families and significant others</li> </ul>	<ul style="list-style-type: none"> <li>*Record therapeutic communication</li> <li>*Administer medications</li> <li>*Assist in Electro convulsive Therapy (ECT)</li> <li>*Participate in all therapies</li> <li>*Prepare patients for Activities of Daily living (ADL)</li> <li>*Conduct admission and discharge counseling</li> <li>*Counsel and teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>*Process recording 2</li> <li>*Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>Care plan, clinical presentation, process recording</li> <li>*Completion of activity record.</li> </ul>
Community Psychiatry	<b>1</b>	<ul style="list-style-type: none"> <li>*To identify patients with various mental disorders</li> <li>*To motivate patients for early treatment and follow up</li> <li>*To assist in follow up clinic</li> <li>*Counsel and educate patient, family and community</li> </ul>	<ul style="list-style-type: none"> <li>*Conduct case work</li> <li>*Identify individuals with mental health problems</li> <li>*Counsel and Teach family members, patients and community</li> </ul>	<ul style="list-style-type: none"> <li>*Case work -1</li> <li>*Observation report on field visits</li> </ul>	<ul style="list-style-type: none"> <li>*Assess performance with rating scale</li> <li>*Evaluation of case work and observation report</li> <li>*Completion of activity record</li> </ul>
Psychiatry ward	<b>2 weeks</b>	<ul style="list-style-type: none"> <li>*Provide comprehensive care to patients with mental health problems</li> </ul>	<ul style="list-style-type: none"> <li>*Integrated Practice</li> </ul>		<ul style="list-style-type: none"> <li>*Assess clinical performance with rating scale</li> </ul>

# Child Health Nursing

**Placement:** SEVENTH SEMESTER

**Time:** Theory - 90 Hrs.  
Practicals- 420 Hrs.

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

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment Methods
I	15	<ul style="list-style-type: none"> <li>-Explain the modern concept of child care and principles of child health nursing</li> <li>-Describe national policy programmes and legislation in relation to child health and welfare</li> <li>-List major causes of death during infancy, early and late childhood</li> <li>-Describe the major functions and role of the paediatric nurse in caring for a hospitalized child.</li> <li>-Describe the principles of child health nursing</li> </ul>	<ul style="list-style-type: none"> <li>Introduction</li> <li>Modern concepts of child care</li> <li>-Internationally accepted rights of the child</li> <li>-National policy and legislations in relation to child health and welfare</li> <li>-National programmes related to child health and welfare</li> <li>-Agencies related to welfare services to the children</li> <li>-Changing trends in hospital care, preventive, promotive and curative aspects of child health.</li> <li>-Child morbidity and mortality rates</li> <li>-Differences between an adult and child</li> <li>-Hospital environment for a sick child</li> <li>-Impact of hospitalization on the child and family</li> <li>-Grief and bereavement</li> <li>-The role of a child health nurse in caring for a hospitalized child</li> <li>-Principles of pre and post operative care of infants and children</li> <li>-Child health nursing procedures</li> </ul>	<ul style="list-style-type: none"> <li>* Lecture</li> <li>Discussion</li> <li>* Demonstration of common paediatric procedures</li> </ul>	<ul style="list-style-type: none"> <li>-Short answers</li> <li>-Objective type</li> <li>-Assessment of skills with checklist</li> </ul>

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment Methods
<b>II</b>	20	<ul style="list-style-type: none"> <li>*Describe the normal growth &amp; development of children at different ages</li> <li>*Identify the needs of children at different ages &amp; provide parental guidance</li> <li>*Identify the nutritional needs of children at different ages and ways of meeting the needs</li> <li>*Appreciate the role of play for normal &amp; sick children.</li> <li>*Appreciate the preventive measures and strategies for children</li> </ul>	<p><b>The healthy child</b></p> <ul style="list-style-type: none"> <li>*Principles of growth &amp; development</li> <li>*Factors affecting growth &amp; development</li> <li>*Growth and development from birth to adolescence</li> <li>*The needs of normal children through the stages of developmental and parental guidance</li> <li>*Nutritional needs of children &amp; infants: breast feeding, exclusive breast feeding, supplementary/artificial feeding and weaning</li> <li>*Baby friendly hospital concept</li> <li>*Accidents: causes and prevention</li> <li>*Value of play and selection of play material</li> <li>*Preventive immunization, immunization program and cold chain</li> <li>*Preventive paediatrics</li> <li>*Care of under five &amp; under five clinics/ well baby clinics</li> </ul>	<ul style="list-style-type: none"> <li>* Lecture</li> <li>Discussion</li> <li>*Developmental study of infants and children</li> <li>*Observation study of normal and sick child</li> <li>*Field visit to Anganwadi, child guidance clinic</li> <li>*Film show on breast feeding</li> <li>*Clinical practice/field</li> </ul>	<ul style="list-style-type: none"> <li>*Short answers</li> <li>*Objective type</li> <li>*Assessment of visits and developmental study reports</li> </ul>
<b>III</b>	15	<ul style="list-style-type: none"> <li>*Provide care to normal &amp; high risk neonates</li> <li>*Perform neonatal resuscitation.</li> <li>*Recognize and manage</li> </ul>	<p><b>Nursing care of a neonate</b></p> <ul style="list-style-type: none"> <li>*Nursing care of a normal newborn care/Essential newborn care</li> <li>*Neonatal resuscitation</li> <li>*Nursing management of a low birth weight baby</li> <li>*Kangaroo mother care</li> <li>*Nursing management of common neonatal disorders</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Workshop on neonatal resuscitation</li> <li>*Demonstration</li> <li>*Practice session</li> <li>*Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>*Short answers</li> <li>*Objective type</li> <li>*Assessment of skills with checklist</li> </ul>

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment Methods
		Common neonatal problems	*Organization of neonatal unit *Identification and nursing management of common congenital malformations.		
<b>IV</b>	<b>10</b>		Integrated management of neonatal and childhood illness(IMNCI)		
<b>V</b>	<b>20</b>	-Provide nursing care in common childhood diseases -Identify measures to prevent common childhood diseases including immunization	Nursing management in common childhood diseases -Nutritional deficiency disorders -Respiratory disorders and infections -Gastrointestinal infections, infections and congenital defects and rheumatic fever, rheumatic heart disease -Genito-urinary disorders: acute glomerulonephritis, Nephrotic syndrome, Wilms' tumor, infection and congenital disorders. -Neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida. Haematological disorders: Anaemia, 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, haemorrhage, burns and drowning	*Lecture Discussion *Demonstration *Practice session *Clinical practice	*Short answers *Objective type *Assessment of skills with checklist

<b>Unit</b>	<b>Time (Hrs)</b>	<b>Learning Objective</b>	<b>Content</b>	<b>Teaching Learning Activities</b>	<b>Assessment Methods</b>
<b>VI</b>	10	-Manage the child with behavioral and social problems -Identify the social and welfare services for challenged children	Management of behavioral and social problems in children -Management of common behavioral disorders -Management of common psychiatric problems -management of challenged children: Mentally, physically, & socially challenged -Welfare services for challenged children in India -Child guidance clinics	*Lecture Discussion -Field visits to child guidance clinics, school for mentally and physically, socially challenged	*Short answers *Objective type *Assessment of field reports



## **Bibliography**

### **Textbook:**

1. Whaley & Wong, Nursing Care of Infants & Children, Mosby, Philadelphia.

### **Suggested Reference:**

1. Marlow, Textbook of Paediatric Nursing, Harecourt (India) Ltd.
2. Nelson, Textbook of Paediatrics, Harecourt India private Ltd.
3. Parthasarathy, IAP Textbook of Paediatrics, Jaypee Brothers Medical Publishers, New Delhi.
4. Hockenberry, Wong's Maternal Child Nursing Care, Mosby.
5. Kenner (C), Comprehensive Neonatal Nursing, Saunders.
6. Pillitteri (A), Maternal and Child Health Nursing Care, LWW, Philadelphia,
7. Achar's textbook of Paediatrics, Orient Longman.
8. Ghai (OP), Essential Paediatrics.
9. Fox (JA), Primary Health Care of Infants, Children & Adolescents, Mosby.

# Child Health nursing –Practical

**Placement:** Seventh Semester  
hours(9weeks)

**Time :—420**

Areas	Duration (in week)	Objectives	Skills	Assignments	Assignment Method
Paediatric Medicine Ward	3	<ul style="list-style-type: none"> <li>-Provide nursing care to children with various medical disorders</li> <li>-Counsel and educate parents</li> </ul>	<ul style="list-style-type: none"> <li>- Taking paediatric History</li> <li>-Physical examination and assessment of children</li> <li>-Administer of oral ,I/M &amp; IV medicine/ fluids</li> <li>-Calculation of fluid requirements</li> <li>-prepare different strengths of I.V fluids</li> <li>-Apply restraints</li> <li>-Administer O2 inhalation by different methods</li> <li>-Give baby bath</li> <li>-Feed children by Katori spoon,etc.</li> <li>-collect specimens for common investigations</li> <li>-Assist with comm. Diagnostic procedures</li> <li>-Teach mothers/ parents . Malnutrition.Oral rehydration therapy</li> <li>.Feeding &amp; weaning</li> <li>. Immunization schedule</li> <li>. Play therapy</li> <li>. Specific Disease conditions</li> </ul>	<ul style="list-style-type: none"> <li>-Give care to three assigned paediatric patients</li> <li>-Nursing care plan-1</li> <li>-Case study/presentation -1</li> <li>-Health talk-1</li> </ul>	<ul style="list-style-type: none"> <li>-Assess clinical performance with rating scale</li> <li>-Assess each skill with checklist OSCE/OSPE</li> <li>-Evaluation of case study/ presentation and health education session</li> <li>-Completion of activity record.</li> </ul>

Areas	Duration (in week)	Objectives	Skills	Assignments	Assignment Method
Paediatric surgery ward	3	<ul style="list-style-type: none"> <li>-Recognise different pediatric surgical conditions/ malformations</li> <li>-provide pre and post operative care to children with common paediatric surgical conditions/malformation</li> <li>-Counsel and educate parents</li> </ul>	<ul style="list-style-type: none"> <li>-Calculate, prepare and administer I/V fluids</li> <li>-Do bowel wash</li> <li>-Care for ostomy               <ul style="list-style-type: none"> <li>. Colostomy irrigation</li> <li>. Ureterostomy</li> <li>. Gastrostomy</li> </ul> </li> <li>-Urinary catheterization and drainage</li> <li>- Feeding               <ul style="list-style-type: none"> <li>. Nas-gastric</li> <li>. Gastrostomy</li> <li>. Jejunostomy</li> </ul> </li> <li>-Care of surgical wounds               <ul style="list-style-type: none"> <li>. Dressing</li> <li>. Suture removal</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>-Give care to three assigned pediatric surgical patients</li> <li>-Nursing care plan-1</li> <li>-Case study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>-Assess clinical Performance with rating scale</li> <li>-Assess each skill with checklist</li> <li>OSCE/OSPE</li> <li>-Evaluation of case study/ presentation</li> <li>-Completion of activity record.</li> </ul>
Pediatric OPD/Immunization room	1	<ul style="list-style-type: none"> <li>-Perform assessment of children: Health, developmental and Anthropometric</li> <li>-Perform Immunization</li> <li>-Give health Education/ Nutritional Education</li> </ul>	<ul style="list-style-type: none"> <li>-Assessment of children               <ul style="list-style-type: none"> <li>. Health assessment</li> <li>. Developmental assessment</li> <li>. Anthropometric assessment</li> </ul> </li> <li>-Immunization</li> <li>- Health/ Nutritional Education</li> </ul>	-Developmental study-1	<ul style="list-style-type: none"> <li>-Assess clinical performance with rating scale</li> <li>- Completion of activity record</li> </ul>
Paediatric medicine and surgery ICU	1+1	-Provide nursing care to critically ill children	<ul style="list-style-type: none"> <li>-Care of a baby in incubator/warmer</li> <li>-Care of a child on ventilator</li> <li>-Endotracheal suction</li> <li>-Chest physiotherapy</li> <li>-Administer fluids with infusion pump</li> <li>-Total parenteral nutrition</li> <li>-Phototherapy</li> <li>-Monitoring of babies</li> <li>-Cardio pulmonary resuscitation</li> </ul>	<ul style="list-style-type: none"> <li>-Nursing care Plan-1</li> <li>-Observation report-1</li> </ul>	<ul style="list-style-type: none"> <li>-Assess clinical performance with rating scale</li> <li>- Completion of activity record</li> <li>-Evaluation of observation report</li> </ul>

<b>Areas</b>	<b>Duration (in week)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assignments</b>
Padiatric medicine ward/ ICU	<b>1</b>	-Provide comprehensive care to children with medical conditions	-Integrated practice	-Assess clinical performance with rating scale
Pediatic surgery ward/ICU	<b>1</b>	-provide comprehensive care to children with surgical conditions	-Integrated practice	-Assess clinical performance with rating scale
NICU	<b>1</b>	-Provide intensive care to neonates	-Integrated practice	-Assess clinical performance with rating scale

# Management of Nursing Services and Education

**Placement:** SEVENTH SEMESTER

**Time:** Theory – 90 Hrs.

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

Unit	Time (Hrs) Th. Pr.		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4		*Explain the principles and functions of management	<b>Introduction to management in nursing</b> *Definition, concepts and theories *Functions of management *Principles of management *Role of nurse as a manager	*Lecture Discussion *Explain using organization chart	*Short answers
II	5		*Describe the elements and process of management	<b>*Management Process</b> *Planning: mission Philosophy, objectives operational plan *Staffing: Philosophy, Staffing study, Norms, Activities, Patient classification systems, Sheduling *Human resource management: recruiting, selecting, deployment, retaining , promoting, super annuation etc., *Budgeting: Concept, principles, types, cost benefit analysis, audit *Material management: equipment and supplies	*Lecture Discussion *Simulated exercises *Case studies	*Essay type *Short answers

Unit	Time (Hrs) Th. Pr.		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
				<ul style="list-style-type: none"> <li>*Directing process (Leading</li> <li>*Controlling: Quality management</li> <li>*Program Evaluation Review Technique (PERT), bench marking, Activity Plan (Gantt Chart)</li> </ul>		
<b>III</b>	8	20	*Describe the management of nursing services in the hospital and community	<p>Management of Nursing Services in the Hospitals and Community</p> <ul style="list-style-type: none"> <li>*Planning: <ul style="list-style-type: none"> <li>-Hospital and patient care units including ward management</li> <li>- Emergency and disaster management</li> </ul> </li> <li>*Human resource management: <ul style="list-style-type: none"> <li>- Recruiting, selecting, deployment, retaining, promoting, superannuation etc.,</li> <li>- Categories of nursing personnel including job description of all levels</li> <li>- Patient/population classification systems</li> <li>- Patients/population assignment and nursing care responsibilities</li> <li>- Staff development and welfare</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Demonstration</li> <li>*Simulated exercises</li> <li>*Case studies</li> <li>*Supervised practice in ward – writing indents, preparing duty roster, ward supervision</li> <li>*Assignment on duties and responsibilities of ward sister</li> <li>*Writing report</li> </ul>	<ul style="list-style-type: none"> <li>*Essay type answers</li> <li>*Assessment of problem solving exercises</li> <li>*Assessment of the assignments</li> <li>*Performance evaluation by ward sister with rating scale</li> </ul>

Unit	Time (Hrs) Th. Pr.	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<p>*Budgeting: Proposal, projecting requirements for staff, equipments and supplies for</p> <ul style="list-style-type: none"> <li>- Hospital and patient care units</li> <li>- Emergency and disaster management</li> </ul> <p>*Material management: Procurement, inventory control, auditing and maintenance in</p> <ul style="list-style-type: none"> <li>- Hospital and patient care units</li> <li>- Emergency and disaster management</li> </ul> <p>*Directing and leading: Delegation, participatory management</p> <ul style="list-style-type: none"> <li>- Assignments, rotations, delegations</li> <li>- Supervision and guidance</li> <li>- Implement standards, policies, procedures and practices</li> <li>- Staff development and welfare</li> <li>- Maintenance of discipline</li> </ul> <p>*Controlling / evaluation:</p> <ul style="list-style-type: none"> <li>- Nursing rounds / Visits, Nursing protocols, Manuals</li> </ul>		

Unit	Time (Hrs) Th. Pr.		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
				<ul style="list-style-type: none"> <li>- Quality assurance model, documentation</li> <li>- Record and reports</li> <li>Performance appraisal</li> </ul>		
IV	5		*Describe the concepts, theories and techniques of organizational behaviour and human relations	<b>Organizational behaviour and human relations</b> *Concepts and theories of organizational behaviours *Review of channels of communication *Leadership styles *Review of motivation: Concepts and Theories *Group dynamics *Techniques of <ul style="list-style-type: none"> <li>- Communication and</li> <li>- Inter personal relationships</li> <li>- Human relations</li> </ul> *Public relations in context of nursing *Relations with professional associations and employee unions and collective bargaining	*Lecture Discussion *Role plays *Group games *Self Assessment *Case discussion *Practice session	*Essay type *Short answers *Assessment of problem solving
V	5	5	*Participate in planning and organizing inservice education program	<b>In service education</b> *Nature and scope of in service education program *Organization of in service education *Principles of adult learning *Planning for in service education program, techniques, methods and evaluation of staff education program *Preparation of report	*Lecture discussion *Plan and conduct an educational session for in service nursing personnel	*Short answer *Objective type *Assess the planning and conduct of the educational session



Unit	Time (Hrs) Th. Pr.	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
VI	10	*Describe management of nursing educational institutions	<b>Management of Nursing Educational Institutions</b> *Establishment of nursing educational institution – INC norms and guidelines *Co ordination with - Regulatory bodies - Accreditation - Affiliation Philosophy / objectives Organization - Structure - Committees Physical facilities - College / School - Hostel Students - Selection - Admission - Guidance and Counseling - Maintaining discipline Faculty and staff - Selection - Recruitment - Job description - Placement - Performance appraisal - Development and welfare *Budgeting *Equipments and supplies: audio visual equipments, laboratory equipments, books, journals etc., *Curriculum: Planning, Implementation and Evaluation	*Lecture Discussion *Role plays *Counseling sessions *Group exercises	*Essay type *Short answers

Unit	Time (Hrs) Th. Pr.	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>*Clinical facilities</li> <li>*Transport facilities</li> <li>*Institutional records and reports – administrative, faculty, staff and students</li> </ul>		
<b>VII</b>	10	<ul style="list-style-type: none"> <li>*Describe the ethical and legal responsibilities of a professional nurse</li> <li>*Explain the nursing practice standards</li> </ul>	<p><b>Nursing as a Profession</b></p> <ul style="list-style-type: none"> <li>* Nursing as a Profession               <ul style="list-style-type: none"> <li>- Philosophy: Nursing practice</li> <li>- Aims and objectives</li> <li>- Characteristics of a professional nurse</li> <li>- Regulatory bodies: INC, SNC Acts – Constitution, Functions</li> <li>- Current trends and issues in Nursing</li> </ul> </li> <li>*Professional ethics               <ul style="list-style-type: none"> <li>- Code of ethics: INC, ICN</li> <li>- Code of professional conduct: INC, ICN</li> </ul> </li> <li>*Practice standards for Nursing: INC</li> <li>*Consumer protection Act</li> <li>*Legal aspect in Nursing               <ul style="list-style-type: none"> <li>- Legal terms related to practice: Registration and Licensing</li> <li>- Laws related to Nursing practice; Breach and Penalties                   <ul style="list-style-type: none"> <li>- Malpractice and Negligence</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>Discussion</li> <li>*Case discussion</li> <li>*Panel discussion</li> <li>*Role plays</li> <li>*Critical incidents</li> <li>*Visit to INC/ SNRCs</li> </ul>	<ul style="list-style-type: none"> <li>*Short answers</li> <li>*Assessment of critical incidents</li> </ul>
<b>VIII</b>	3	*Explain the various opportunities	<p><b>Professional advancements:</b></p> <ul style="list-style-type: none"> <li>*Continuing education</li> </ul>	<ul style="list-style-type: none"> <li>*Lecture</li> <li>discussion</li> <li>*Review/ Presentation of published articles</li> </ul>	*Short answers

Unit	Time (Hrs) Th. Pr.	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		For professional advancement	*Career Opportunities *Collective bargaining *Membership with Professional organizations: National and International *Participation in research activities *Publications: Journals, Newspapers, etc.,	*Group work on maintenance of bulletin board	

**Bibliography:**

**Textbook:**

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1. Stanhope(M), Public Health Nursing: Population-centered Health Care in the Community, Elsevier, 7<sup>th</sup> Edition, 2008.
2. T.N.A.I., A Community Nursing Manual, New Gian Offset Press, New Delhi, 1989.

# Communication & Educational Technology

Placement: SEVENTH SEMESTER

Time-  
Theory-90 Hours

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

Unit	Time(Hrs)		Learning Objectives	Content	Teaching Learning activities	Assessment methods
	Th.	Pr.				
I	5		-Describe the communication process -Identify techniques of effective communication	Review of Communication Process -Process;elements and chance -Facilitators -Barriers and methods of overcoming -Techniques	-Lecture Discussion -Role plays -Exercises with audio/video tapes	-Respond to critical incidents -Short answers -Objective type
II	5		-Establish effective interpersonal relations th patients, families & co-workers	Interpersonal relations -Purpose & types -Phases -Barriers & methods of overcoming -Johari Window	-Lecture Discussion -Role plays -Exercises with audio/video tapes -Process recording	-Short answers -Objective type
III	5		-Develop effective human relations in context of nursing	Human relations -Understanding self motivation, social attitudes -Individual and groups -Groups & individual -Human relations in context of nursing -Group dynamics -Team work	-Lecture Discussion -Sociometry -Group games -Psychometric exercises followed by discussion	-Short answers -Objective type -Respond to test bas on critical incidents
IV	10	5	-Develop basic skills of counseling and guidance	Guidance & counseling -Definition -Purpose,scope and nee -Basic principles -Organization of counseling services -Types of counseling approaches	Lecture Discussion -Role plays on counseling in different situations followe by discussion	Short answers -Objective type -Assess performance in role play situations

Unit	Time(Hrs)		Learning Objectives	Content	Teaching Learning activities	Assessment methods
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>-Role and presentation of counselor</li> <li>-Issues for counseling in Nursing: students and practitioners</li> <li>-Counseling process-steps &amp; techniques, tools of counselor</li> <li>-Managing disciplinary problems</li> <li>-Management of crisis &amp; referral</li> </ul>		
V	5		<ul style="list-style-type: none"> <li>-Describe the philosophy &amp; principles of education</li> <li>-Explain the teaching learning process</li> </ul>	<ul style="list-style-type: none"> <li>Principles of education &amp; teaching learning process</li> <li>-Education: meaning, philosophy, aims, functions &amp; principles</li> <li>-Nature and characteristics of learning</li> <li>-Principles and maxims of teaching</li> <li>-Formulating objectives; general and specific</li> <li>-Lesson planning</li> <li>-Classroom management</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>Discussion</li> <li>-Prepare lesson plan</li> <li>-Micro teaching</li> <li>-Exercise on writing objectives</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>-Objective type</li> <li>-Assess lesson plans &amp; teaching situations</li> </ul>
VI	10	10	<ul style="list-style-type: none"> <li>-Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings</li> </ul>	<ul style="list-style-type: none"> <li>Methods of teaching</li> <li>-Lecture, demonstration, group discussion, seminar, discussion, role play, project, field trip, work shop, exhibition, programmed instruction, computer assisted learning, micro teaching problem based learning, self instructional module, and simulation etc.</li> <li>-Clinical teaching methods: Case method, nursing round &amp; reports, bedside clinic, conference(individual &amp; group) process recording</li> </ul>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>Discussion</li> <li>-Conduct 5 teaching sessions using different methods &amp; media</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>-Objective type</li> <li>-Assess teaching situations</li> </ul>

Unit	Time(Hrs)		Learning Objectives	Content	Teaching Learning activities	Assessment methods
	Th.	Pr.				
VII	10	8	-Prepare and use different types of educational media effectively	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	Lecture Discussion -Demonstration -Prepare different teaching aids- projected & non projected	Short answers -Objective type -Assess teaching aids prepared
VIII	5	7	-Prepare different types of questions for assessment of knowledge, skills and attitudes	Assessment -Purpose and 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	Lecture Discussion -Exercise on writing different types of assessment tools	Short answers -Objective type -Assess strategies used in practice teaching sessions and exercise sessions
IX	5		-Teaching individuals, group and communities about health With their active participation	Information, Education & communication for health(IEC) -Health behaviour and health education -Planning for health education -Health education with individuals, groups & communities -Communicating health messages -Methods & media for communicating health messages -Using mass media	Lecture Discussion -Plan and conduct health education sessions for individuals, group & communities	Short answers -Objective type -Assess the planning & conduct of the educational session

**Bibliography:****Text Book:**

Heidgerkohn (DE), Teaching and Learning in School of Nursing, Philadelphia, J.O. Billioet Co.  
W.H.O. Curriculum Guide for the Schools of Nursing in India, Delhi WHO.

**Reference:**

1. Neeraja, Textbook of Nursing Education, Jaypere Brothers.
2. Tyler (RW), Basic of Curriculum and Instruction, Chicago, The university of Chicago press.

# Midwifery and obstetrical Nursing

**Placement:** Eight semester

**Time** -Theory-90 h  
Practical-600hrs

**Course description:** This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant women during antenatal, natal and postnatal 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.

Unit	Time	Learnng objective	Content	Teaching Learning Activities	Assessment method
I	3	- Recognise the trends and issues in midwifery and obstetrical nursing	Introduction to midwifery and obstetrical Nursing Introduction to concepts of midwifery and obstetrical nursing Trends in midwifery and obstetrical nursing Historical perspectives and current trends Legal and ethical aspects Pre-conception care and preparing for parenthood Role of nurse in midwifery and obstetrical care National policy and legislation in relation to maternal health and welfare Maternal, morbidity, mortality and fertility rates Perinatal, morbidity and mortality rates	-Lecture, Discussion -Explain using charts and graphs	-Short answers -Objective type
II	8	-Describe the anatomy and physiology of female reproductive system	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 shapes Female organs of reproduction-external genitalia, internal genital organs and their anatomical relations, masculature-blood supply, nerves, lymphatics, pelvic	-Lecture, Discussion -review with charts and models	-Short answers -Objective type



			<p>cellular tissue, pelvic peritoneum.</p> <p>Physiology of menstrual cycle</p> <p>Human sexuality</p> <p>Foetal development</p> <p>Conception</p> <p>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 cord</p> <p>Foetal circulation,foetal skull,bones,sutures and measurements.</p> <p>Review of genetics</p>		
III	8	-Describe the diagnosis and management of women during antenatal period	<p>Assessment and management of pregnancy(ante-natal)</p> <p>Normal pregnancy</p> <p>Physiological changes during pregnancy</p> <p>Reproductive system</p> <p>Cardio vascular system</p> <p>Respiratory system</p> <p>Urinary system</p> <p>Gastro intestinal system</p> <p>Metabolic changes</p> <p>Skeletalchanges</p> <p>Endocrine system</p> <p>Psychological changes</p> <p>Discomforts of pregnancy</p> <p>Diagnosis of pregnancy</p> <p>-signs</p> <p>-Differential diagnosis</p> <p>Confirmatory tests</p> <p>Ante-natal care</p> <p>-Objectives</p> <p>_assessment</p> <p>History and physical examination</p> <p>Antenatal examination</p> <p>Signs of previous child-birth</p> <p>Relationship of foetus to uterus and pelvis:lie,attitude,presentation ,position.</p> <p>Per vaginal Examination</p> <p>Screening and assessment for high risk</p> <p>Risk approach</p> <p>History and physical examination</p> <p>Modalities of diagnosis, invasive and</p>	-Lecture,Discussion -Demonstration -Case discussion/Presentation	

			<p>non-invasive ,ultrasonics,cardio tomography,NST,CST  Antenatal preparation  - Antenatal counseling  - Antenatal exercise  - Diet  - substance use  - Education for child birth  - Husband and families  - Preparation for safe confinement  - Prevention from radiation  Psychosocial cultural aspects of pregnancy  - Adjustment to pregnancy  - Unwed mother  - Single parent  - Teen age pregnancy  - Sexual violence  Adoption</p>		
IV	12	<p>Describe the physiology and stages of labour. Describe the management of women during intranatal period</p>	<p>Assessment and management of intranatal 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  - women  - Assessment and observation of women in labour; partogram-maternal and foetal monitoring  - Active management of labour,induction of labour  - Pain relief and comfort in labour  Second stage  - Signs and symptoms,normal and abnormal  - Duration  - Conduct of delivery;principles and techniques  - Episiotomy(only if required)  - Receiving the newborn  - Neonatal resuscitation;initial steps and subsequent resuscitation  - Care of umbilical cord  - Immediate assessment including screening for congenital anomalies  - Identification</p>	<p>-Lecture discussion  -Demonstration  -Case discussion/presentation  -Simulated practice  -Supervised clinical practice</p>	<p>-Essay type  -Short answers  -Objective type  -Assessment of skills with check list  -Assessment of patient management problems</p>

			<ul style="list-style-type: none"> <li>-Bonding</li> <li>-Initiate feeding</li> <li>-Screening and transportation of the neonate</li> <li>Third stage</li> <li>-Signs and symptoms;normal and abnormal</li> <li>-Duration</li> <li>-Method of placental expulsion</li> <li>-Management;principles and techniques</li> <li>-Examination of the placenta</li> <li>-Examination of perineum</li> <li>Maintaining records,and reports</li> <li>Forth stage</li> </ul>		
V	5	Describe the physiology of pureperium Description the management of women during postnatal period	<ul style="list-style-type: none"> <li>Assessment and management of women during postnatal period</li> <li>-Normal pureperium;physiology</li> <li>Duration</li> <li>-Postnatal assessment and management</li> <li>-Promoting physical and emotional well-being</li> <li>-Lactation management</li> <li>-Immunization</li> <li>-Family dynamics after child-birth</li> <li>-Family welfare services;methods,counseling</li> <li>-Follow-up</li> <li>-Records and reports</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>-Demonstration</li> <li>-Health talk</li> <li>-Practice Session</li> <li>-Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>-Short answers</li> <li>-Objective type</li> <li>-Assessment of skills with check list</li> <li>-Assessment of patient management problems</li> </ul>
VI	10	Describe the assessment and management of normal neonate	<ul style="list-style-type: none"> <li>Assessment and management of normal neonates</li> <li>-Normal Neonate;</li> <li>Physiological adaptation,</li> <li>Initial and daily assessment</li> <li>Essential newborn care;thermal control</li> <li>Breast feeding, prevention of infections</li> <li>-Immunization</li> <li>-minor disorders of newborn and its management</li> <li>-Levels of neonatal care(level I,II,&amp;III)</li> <li>-At primary, secondary and tertiary levels</li> <li>-Maintenance of reports and records</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>-Demonstration</li> <li>-Practice Session</li> <li>-Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>-Short answers</li> <li>-Objective type</li> <li>-Assessment of skills with check list</li> <li>-Assessment of patient management problems</li> </ul>
VII	10	Describe the Identification and management of women with high risk pregnancy	<ul style="list-style-type: none"> <li>High –risk pregnancy-assessment and management</li> <li>-Screening and assessment</li> <li>-Ultrasonics,cardiotomography,NST, CST,non –invasive and invasive</li> <li>-Newer modalities of diagnosis</li> <li>-high- risk approach</li> <li>-Levels of care;primary,secondary and</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>-Demonstration using video films,scan reports,partograph etc</li> <li>-case discussion/presentation</li> <li>-Health talk</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>-Short answers</li> <li>-Objective type</li> <li>-Assessment of skills with check</li> </ul>

			<p>tertiary levels</p> <ul style="list-style-type: none"> <li>-Disorders of pregnancy</li> <li>-Hyper-emesis gravidarum,bleeding in early pregnancy,abortion,ectopic</li> <li>-Pregnancy,vesicular mole,</li> <li>-Antepartum haemorrhage</li> </ul> <p>Uterine abnormality and displacement Diseases complicating pregnancy</p> <ul style="list-style-type: none"> <li>-Medical and surgical conditions</li> <li>-Infections,RTI(STD),UTI,HIV,TORCH</li> <li>-Gynaecological diseases complicating pregnancy</li> <li>-pregnancy induced hypertension and diabetes,hydramnios</li> <li>-Rh incompatibility</li> <li>-Mental disorders</li> </ul> <ul style="list-style-type: none"> <li>. Adolescent pregnancy,Elderly primi and grand multipara</li> <li>. Multiple pregnancy</li> <li>. Abnormalities of placenta and cord</li> <li>. Intra-uterine growth-retardation</li> <li>. Nursing management of mothers with high-risk pregnancy</li> <li>. maintenance of records and report</li> </ul>	<ul style="list-style-type: none"> <li>-Practice Session</li> <li>-Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>list</li> <li>-Assessment of patient management problems</li> </ul>
VIII	10	Describe management of abnormal labour and .Obstetrical emergencies	<p>Abnormal labour-assessment and management</p> <ul style="list-style-type: none"> <li>-Discorders in labour</li> <li>-CPD and contracted pelvis</li> <li>-Malpositions and malpresentations</li> <li>-Premature labour,disorders of uterine actions-precipitate labour,prolonged labour</li> <li>-Complications of third stage: injuries to birth canal</li> </ul> <p>.Obstetrical emergencies and their management;</p> <ul style="list-style-type: none"> <li>-presentation and prolapse of cord, vasa praevia, amniotic fluid embolism,rupture of the uterus,shoulder dystocia,obstetrical shock</li> </ul> <p>.Obstetrical procedures and operations</p> <ul style="list-style-type: none"> <li>-Induction of labour,forceps,vacuum version&gt;manual removal of placenta, caesareansection,destructive operations</li> <li>-Nursing management of women undergoing obstetrical operations and procedures</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>-Demonstration</li> <li>-case discussion/presentation</li> <li>-Health talk</li> <li>-Practice Session</li> <li>-Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>-Short answers</li> <li>-Objective type</li> <li>-Assessment of skills with check list</li> <li>-Assessment of patient management problems</li> </ul>
IX	4	Describe management of postnatal	<p>Abnormalities during postnatal Periods</p> <ul style="list-style-type: none"> <li>-Assessment and management of women with postnatal complications</li> </ul>	<ul style="list-style-type: none"> <li>-Demonstration</li> <li>-Case discussion/presentation</li> </ul>	<ul style="list-style-type: none"> <li>-Objective type</li> <li>-Assessment</li> </ul>

		complications	-Puerperal infections, UTI ,thrombo-Embolic disorders, post-partum haemorrhage, Eclampsia and subinvolutions -Psychological complications: Post partum blues Post partum depression Post partum psychosis	n -Supervised clinical practice	of skills with check list -Assessment of patient management problems
X	10	Identify the risk neonates and their nursing management	Assessment and management of high risk newborn -Admission of neonates in the neonatal intensive care units protocols -Nursing management of: .Low birth weight babies . Infections .Respiratory problems .HAemolytic disorders .Birth injuries .malformations -Monitoring high risk neonates -Feeding of high risk neonates -organisation and management of neonatal intensive care units -infection control in neonatal intensive care units - maintenance of reports and records	Lecture discussion  Demonstration -Practice Session -case discussion/presentation -Supervised Clinical practice	Essay type -Short answers -Objective type -Assessment of skills with check list -Assessment of patient management problems
XI	4	Describe indication,dosage,action,side effects and nurses responsibilities in the administration of drugs used for mothers	Pharmaco-therapeutics in obstetrics - indication,dosage,action,contraindication and side effects of drugs - Effect of drugs on pregnancy, labour and puerperium -Nursing responsibilities in the administration of drugs in obstetrics-oxytocin,antihypertensives,diuretics,tocolytic agents ,anticonvulsants; -Analgesics and anesthetics in obstetrics -Effects of maternal medication on foetus and neonate	Lecture discussion -Drug book -Drug presentation	-Short answers -Objective type
XII	10	-Appreciate the importance of family welfare programme -Describe the methods of contraception and role of nurse in family welfare programme	family welfare programme -Population trends and problem 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	Lecture discussion  Demonstration -Practice Session -Supervised practice -Group project -Counselling session -Field visit	Essay type -Short answers -Objective type -Assessment of skills with check list,project and field visits

		<p>levels</p> <ul style="list-style-type: none"> <li>-Methods of contraception;spacing,temporary and permanent,Emergency contraception</li> <li>-Infertility and its management</li> <li>-Counselling for family welfare</li> <li>-Latest research in contraception</li> <li>-maintenance of vital statistics</li> <li>-Role of national,international and voluntary organizations</li> <li>-Role of nurse in family welfare programme</li> <li>-Training/supervision/collaboration with other functionaries in community like ANMs,LHVs,Anganwadi workers, TBAs(Traditional birth attendant-Dai)</li> </ul>		reports
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**Bibliography:****Textbook:**

1. Fraser (DM), MMyles Textbook of Midwives, Churchill Livingstone, 14<sup>th</sup> Edition, 2003

**Suggested References:**

1. Dutta (DC), Textbook of Obstetrics, New Central Book Agency.
2. Lowdermilk, Maternity Nursing, Mosby, 7<sup>th</sup> Edition.
3. Willams, Obstetrics, McGrawhill, 22<sup>nd</sup> Edition.
4. Bobak, Maternity Nursing Care, Elsevier.
5. Maternity & Child Health Nursing Care for the childbearing family, LWW, 5<sup>th</sup> edition.
6. Wong, Maternity Child Nursing Care, Mosby, 3<sup>rd</sup> Edition.

# Midwifery and Obstetrical Nursing-Practical

**Placement:** Eighth Semester

**Time:** Practical 600 Hours

Areas	Duration (In weeks)	Objectives	Skills	Assignments	Assessment methods
Antenatal clinics/OPD	2	Assessment of pregnant women	-Antenatal history taking -Physical examination Recording of weight and 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	-Conduct Antenatal - Examinations 30 -Health talk-1 -Case book recordings	- Verificaation of findings of Antenatal examinations - Complication of casebook recordings
Labour Room/OT	4	-Assess women in labour -Carry out per-vaginal examinations -Conduct normal deliveries -Perform episiotomy and suture it -Resuscitate newborns -Assist with caesarean sections,MTP and other surgical procedures	-Assessment of women in labour -Pervaginal examinations and interpretation -Monitoring and caring of women in labour -maintenance of partograph -Conduct normal delivery -Newborn assessment and immediate care -Resuscitation of newborns -Assessment of risk status of newborn -Episiotomy and suturing -Maintenance of labour and birth records -Arrange for and assist with caesarean section and care for women and baby during caesarean -Arrange for and assist with MTP and other surgical procedures	-*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 -Case book recordings	Assessment of clinical performance with rating scale -Assessment of each skill with checklists - Complication of case book recordings
Postnatal ward	4	-Provide nursing care to postnatal mother and baby -Counsel and	-Examination and assessment of mother and Baby -Identification of deviations -Care of postnatal mother and Baby -Perineal care	-*Give care to postnatal mothers-20 -Health talks-1 -Case study-1	Assessment of clinical performance -Assessment of each skill with



		teach mother and family for parenthood	<ul style="list-style-type: none"> <li>-Lactation management</li> <li>-Breast feeding</li> <li>-Baby bath</li> <li>-Immunization</li> <li>-Teaching postnatal mother: <ul style="list-style-type: none"> <li>. Mother craft</li> <li>. Postnatal care &amp;</li> <li>. Exercises</li> </ul> </li> <li>-Immunization</li> </ul>	<ul style="list-style-type: none"> <li>-Case presentation-1</li> <li>-Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>checklists</li> <li>-Completion of case book recording</li> <li>-Evaluation of case study and presentation and health education sessions</li> </ul>
Newborn nursery	2	-Provide nursing care to newborn at risk	<ul style="list-style-type: none"> <li>-Newborn assessment</li> <li>-Admission of neonates</li> <li>-Feeding of at risk neonates</li> <li>-Katori spoon, paladin,tube feeding,total parenteral nutrition</li> <li>-Thermal management-kangaroo mother care, care of baby in incubator</li> <li>-Monitoring and care of neonates</li> <li>- Administering medications</li> <li>-Intravenous therapy</li> <li>-Assisting with diagnostic procedure</li> <li>-Assisting with exchange transfusion</li> <li>-Care of the baby on ventilator</li> <li>-Phototherapy</li> <li>-Infection control protocols in the nursery</li> <li>-Teaching and counseling of parents</li> <li>-Maintenance of neonatal records</li> </ul>	<ul style="list-style-type: none"> <li>-Case study-1</li> <li>-Observation study-1</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of clinical performance</li> <li>-Assessment of each skill with checklists</li> <li>-Evaluation of and observation study</li> </ul>
Family Planning clinic	Rotation from postnatal ward 1 wk	-Counsel for and provide family welfare services	<ul style="list-style-type: none"> <li>-Counselling technique</li> <li>-Insertion of IUD</li> <li>-Teaching on use of family planning methods</li> <li>-Arrange for and Assist with family planning operations</li> <li>-maintenance of records and reports</li> </ul>	<ul style="list-style-type: none"> <li>-*IUD insertion-5</li> <li>-Observation study-1</li> <li>-Counselling-2</li> <li>-Simulation exercise on recording and reporting-1</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of eacg skill with checklists</li> <li>-Evaluation of and observation study</li> </ul>

# Nursing Research and Statistics

**Placement:**Forth year

**Time:** Theory-45 hours  
Practical- 45 Hours

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

Unit	Time(Hrs)	Learning objectives	Content	Teaching learning Activities	Assessment methods
I	4	-Describe the concept of research, terms, need and areas of research in nursing -Explain the steps of research process	Research and research process - Introduction and need for nursing research -Definition of research and nursing research -Steps of scientific method -Charateristics of good research -Steps of research process-overview	-Lecture Discussion -Narrate steps of research process followed from examples of published studies	-Short answer -Objective type
II	3	-Identify and state the research problem and objectives	Research problem/question -Identification of problem area - Problem statement -Criteria of a good research problem -Writing objectives	- Lecture Discussion -Exercise on writing statement of problem and objectives	-Short answer -Objective type
III	3	Review the related literature	Review of Literature -Location -Sources -on line search; CINHAL,COCHRANE etc -Purposes -Method of review	- Lecture Discussion -Exercise on reviewing one research report/ article for a selected research problem -prepare annotated bibliography	-Short answer -Objective type
IV	4	-Describe the research approaches and designs	Research approaches and designs -Historical, Survey and experimental -Qualitative and quantitative designs	-Lecture Discussion -Explain types of research approaches used from examples of published and unpublished research studies with rationale	-Short answer -Objective type
V	8	-Explain the sampling and data collection	Sampling and data collection -Definition of population,Sample, sampling	-Lecture Discussion -Reading assignment on examples of data	-Short answer -Objective

			<p>criteria, factors influencing sampling process, types of sampling techniques.</p> <ul style="list-style-type: none"> <li>-Data-why, what from whom, when and where to collect</li> <li>-Data collection methods and instruments: <ul style="list-style-type: none"> <li>. Methods of data collection</li> <li>. Questioning, interviewing</li> <li>. Observations, record analysis and measurement</li> </ul> </li> <li>-Pilot study</li> <li>-Data collection procedure</li> </ul>	<p>collection tools</p> <ul style="list-style-type: none"> <li>-Preparation of sample data collection tool</li> <li>-Conduct group research project</li> </ul>	type
VI	4	Analyze, interpret and summarize the research data	<p>Analysis of data:</p> <ul style="list-style-type: none"> <li>-Complication, Tabulation, Summarization, presentation, interpretation of data</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture Discussion</li> <li>-Preparation of sample tables</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> </ul>
VII	15	<ul style="list-style-type: none"> <li>-Explain the use of statistics, scales of measurement and graphical presentation of data</li> <li>- Describe the measures of central tendency and variability and methods of correlation</li> </ul>	<p>Introduction to Statistics</p> <ul style="list-style-type: none"> <li>-Definition, use of statistics, scales of measurement</li> <li>-Frequency distribution and graphical presentation of data</li> <li>-mean, Median, Mode, Standard deviation</li> <li>-Normal probability and tests of significance</li> <li>-Co-efficient of correlation</li> <li>-Statistical packages and its application</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture Discussion</li> <li>-Practice on graphical presentations</li> <li>-practice on computation of measures of central tendency, variability and correlation</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> </ul>
VIII	4	-Communicate and utilize the research findings	<p>Communication and utilization of Research</p> <ul style="list-style-type: none"> <li>-Communication of research findings <ul style="list-style-type: none"> <li>. Verbal report</li> <li>. Writing research report</li> <li>. Writing scientific article/paper</li> </ul> </li> <li>-Critical review of published research</li> <li>-Utilization of research findings</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture Discussion</li> <li>-Read/presentation of sample published/unpublished research report</li> <li>-Writing group research project</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> <li>-Oral presentation</li> <li>- Assessment of group research project</li> </ul>

**Bibliography:****Textbook:**

1. Mahajan (BK), Methods in Biostatistics, Jaypee, 6<sup>th</sup> Edition.

**Suggested Reference:**

1. Rao (S), Introduction to Biostatistics & Research methods, Riachard, 4<sup>th</sup> Edition.
2. Rao (V), A manual of Statistical and Anthropology, Jaypee, 2<sup>nd</sup> Edition.
3. Norman, Biostatistics, B.C Decker, 2<sup>nd</sup> Edition.
4. Rao, Applied Statistics in Health Sciences, Jaypee.
5. Neg (KS), Biostatistics, AITBS.

**PATTERN OF QUESTION PAPER FOR BSc. NURSING COURSE**  
**FOR THEORY EXAM**

Maximum 3 Hours

Maximum 75 Marks

**Answer Section – A and Section – B separately.**  
**Draw labeled diagrams wherever applicable.**

*For all Nursing subjects only*

**SECTION –A**  
(40 Marks)

I. Essay question: (Answer any Two questions only) (2 x 15 = 30)

- 1.
- 2.
- 3.

II. Short Notes: (Answer any Two questions only) (2 x 5 = 10)

- 1.
- 2.
- 3.

**SECTION – B**  
(35 Marks)

I. Essay question: (Answer any One question only) (1 x 15 = 15)

- 1.
- 2.

II. Short Notes: (Answer any Four questions only) (4 x 5 = 20)

- 1.
- 2.
- 3.
- 4.
- 5.

**Question Paper for Anatomy and Physiology will consist of Section A –Anatomy and section B – Physiology in respect of marks 37 for Anatomy and 38 for Physiology**

**SECTION – A (Anatomy) (37 marks)**

I. Essay type (Answer any One question only) 1x15 =15

- 1.
- 2.

II. (Answer any Two questions only) 2x6 = 12

- 1.
- 2.
- 3.

III. Short notes (Answer any Two questions only) 2x5 = 10

- 1.
- 2.
- 3.

**SECTION – B (Physiology) (38 Marks)**

I. Essay type (Answer any One question only) 1x15 =15

- 1.
- 2.

II. (Answer any Two questions only) 7+6 = 13

- 1.
- 2.
- 3.

III. Short notes (Answer any Two questions only) 2x5 = 10

- 1.
- 2.
- 3.

**Question Paper for Nutrition and Bio Chemistry will consist of Section A –Nutrition and section B – Bio Chemistry in respect of marks 45 for Nutrition and 30 for Bio chemistry**

**SECTION – A (Nutrition) (45marks)**

I. Essay type (Answer any Two questions only) 2x10 =20

- 1.
- 2.
- 3.

II. Short notes (Answer any Five questions only) 5x5 = 25

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

**SECTION – B (Bio Chemistry) (30Marks)**

I. Essay type (Answer any One question only) 1x10=10

- 1.
- 2.

II. (Answer any Four questions only) 4x5 = 20

- 1.
- 2.
- 3.
- 4.
- 5.

**Question Paper for Pharmacology, and Pathology and Genetics will consist of Section A –Pharmacology (38 Marks) and section B- Pathology (25 Marks) and Genetics (12 Marks)**

**SECTION - A (Pharmacology)**

I. Answer any one question only) 1x13 =13

- 1.
- 2.

II. Short notes (Answer any Five questions only) 5x5 = 25

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

**SECTION –B (Pathology & Genetics)**

I. Short notes - Pathology (Answer any Five questions only) 5x5 = 25

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

II. Genetics (Answer any Three questions only) 4x3 = 12

- 1.
- 2.
- 3.
- 4.



**Nursing Research and Statistics Question Paper will consist of Section – A  
Nursing Research 50 Marks and  
Section – B Statistics 25 Marks**

**SECTION –A Nursing Research**

I. Answer any Two questions only 2x15 = 30

- 1.
- 2.
- 3.

II. Short Notes (Answer any Four questions only) 4x5 = 20

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

**SECTION -B Statistics**

I. Answer any one question only 1x10 = 10

- 1.
- 2.

II. Short Notes (Answer any Three questions only) 3x5 = 15

- 1.
- 2.
- 3.
- 4.
- 5.