

CURRICULUM
BACHELOR OF NURSING DEGREE COURSE

2008-09



**JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION &
RESEARCH (JIPMER),**

PUDUCHERRY-605 006

B.Sc. (Nursing)

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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 B.Sc. Nursing Program the graduate will be able to:

Apply knowledge from physical, biological and behavioural sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.

Demonstrate understanding of life styles and other factors, which affect health of individuals and groups.

Provide nursing care based on steps of nursing process in collaboration with individuals and groups.

Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.

Utilize the latest trends and technology in providing health care.

Provide promotive, preventive and restorative health services in line with the National Health Policies and Programmes.

Practice within the frame work of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.

Communicate effectively with individuals and groups, and members of the health team in order to promote effective inter personal relationship and team work.

Demonstrate skills in teaching to individuals and groups in clinical and community health settings.

Participate effectively as members of the health team in health care delivery system.

Demonstrate leadership and managerial skills in clinical / community health settings.

Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.

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 December 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 JIPMER.

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- 37Weeks

Hours per week - 40 hours

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

REGULATIONS OF JIPMER

I. SHORT TITLE AND COMMENCEMENT

These regulations shall be called “THE REGULATIONS FOR THE **BACHELOR OF NURSING DEGREE COURSE** OF JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH, 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 JIPMER, 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 institution of JIPMER, 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 Final / Summative 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 JIPMER.

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:

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

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

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 JIPMER and have passed the prescribed examinations in all subjects. 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 JIPMER Theory examination.
- 50% marks in the JIPMER 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 Annual / Summative 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**.

COURSE OF INSTRUCTION						
B.Sc. (NURSING) SYLLABUS						
Sl. No.	Subject	Theory (Hours)	Practical (Hours)		Others (Hours)	Total Hours
			Lab	Clinical		
I YEAR						
1	English	60	-	-	-	60
2	Sociology	60	-	-	-	60
3	Nursing foundation - I	265	200	450	-	915
4	Psychology	60	-	-	-	60
5	Introduction to computers	15	30	-	-	45
6	Anatomy	60	-	-	-	60
7	Physiology	60	-	-	-	60
8	Nutrition	60	-	-	-	90
9	Biochemistry	30	-	-	-	30
10	Regional Language	30	-	-	-	30
11	Library / Self study	-	-	-	50	50
12	Co-curricular activities	-	-	-	50	50
	Total	700	230	450	100	1480
II YEAR						
1	Community Health Nursing I	90	-	135	-	225
2	Microbiology	45	15	-	-	60
3	Pharmacology	45	-	-	-	45
4	Pathology	30	-	-	-	30
5	Genetics	15	-	-	-	15
6	Medical Surgical Nursing I	210	-	950	-	1160
7	Library / Self Study	-	-	-	45	45
8	Co-curricular activities	-	-	-	45	45
	Total	435	15	1085	90	1625
III YEAR						
1	Medical Surgical Nursing - II	120	-	470	-	590
2	Mental Health Nursing	90	-	365	-	455
3	Community Health Nursing II	90	-	330	-	420
4	Library / Self study	-	-	-	50	50
5	Co-curricular activities	-	-	-	50	50
	Total	300	-	1165	100	1565
IV YEAR						
1	Child Health Nursing	90	-	420	-	510
2	Management Nursing Service and Education	65	-	25	-	90
3	Communication and Educational Technology	60	-	30	-	90
4	Midwifery	90	-	600	-	690
5	Nursing Research & Statistics	45	-	45	-	90
6	Library / Self study	-	-	-	25	25
7	Co-curricular activities	-	-	-	25	25
	Total	350	-	1120	50	1520

MARKS SCHEME OF EXAMINATIONS

Sl. No	Year	Subject	Annual Exam.		IA		Total	
			Max	Min	Max	Min	Max	Min
1	First Year	English	75	30	25	10	100	40
2		Sociology	75	38	25	12	100	50
3		Psychology	75	38	25	12	100	50
4		Nursing Foundation	75	38	25	12	100	50
5		Introduction to Computer	-	-	100	50	100	50
6		Anatomy and Physiology	75 (37+38)	38	25 (12+13)	12	100	50
7		Nutrition and Biochemistry	75 (45+30)	38	25 (15+10)	12	100	50
8		Nursing Foundation- Practical and Viva-voce	100	50	100	50	200	100
9	Second Year	Community Health Nursing - I	75	38	25	12	100	50
10		Microbiology	75	38	25	12	100	50
11		Pharmacology, Pathology and Genetics	75 (38+25+12)	38	25 (13+8+4)	12	100	50
12		Medical Surgical Nursing - I	75	38	25	12	100	50
13		Medical Surgical Nursing - I Practical and Viva-voce	100	50	100	50	200	100
14	Third Year	Medical Surgical Nursing - II	75	38	25	12	100	50
15		Community Health Nursing - II	75	38	25	12	100	50
16		Mental Health Nursing	75	38	25	12	100	50
17		Medical Surgical Nursing - II Practical and Viva-voce	50	25	50	25	100	50
18		Community Health Nursing II Practical and Viva-voce	50	25	50	25	100	50
19		Mental Health Nursing Practical and Viva-voce	50	25	50	25	100	50
20	Fourth Year	Child Health Nursing	75	38	25	12	100	50
21		Management of Nursing Service & Education	75	38	25	12	100	50
22		Communication and Educational Technology	75	38	25	12	100	50
23		Midwifery & Obstetrical Nursing	75	38	25	12	100	50
24		Nursing Research and Statistics	75 (50+25)	38	25 (15+ 10)	12	100	50
		Child Health Nursing Practical and Viva-voce	50	25	50	25	100	50
25		Midwifery & Obstetrical Nursing Practical and Viva voce	50	25	50	25	100	50

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 JIPMER 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. A candidate should not be promoted to the 3rd year unless the candidate has passed all the previous examinations (2nd year there is gate).
13. A student has to pass all previous examinations to be eligible to appear for the Final (4th year) examination.
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 YEAR

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: 1

TIME: 10 Hrs

Learning Objectives:

- Speak and write grammatically correct English.

CONTENT

- * Review of Grammar
- * Remedial study of Grammar
- * Building vocabulary
- * Phonetics
- * Public speaking

Teaching Learning Activities

- * Demonstrate use of dictionary
- * Class-room conversation
- * Exercise on use of Grammar
- * Practice in public speaking

Assessment Methods

- * Objective Type
- * Fill in the blanks
- * Para phrasing

UNIT: II

TIME: 30 Hrs

Learning Objectives:

- Develop ability to read, understand and express meaningfully, the prescribed text.

CONTENT

- * Read and comprehend prescribed course books.

Teaching Learning Activities

- * Exercise on: - Reading

- Summarizing
- Comprehension

Assessment Methods

- * Short Answers
- * Essay Types

UNIT: III

TIME: 10 Hrs

Learning Objectives:

Develop writing skills

Content

Various forms of composition

- Letter writing
- Note taking
- Precis writing
- Nurses notes
- Anecdotal records
- Diary writing
- Reports on health problems etc.
- Resume/CV

Teaching Learning Activities

Exercises on writing

- Letter writing
- Nurses notes
- Precis
- Diary
- Anecdote
- Health problems
- Story writing
- Resume/CV
- Essay writing
- Discussion on written reports/documents

Assessment Methods

Assessment of the skills based on the check list

UNIT: IV

TIME: 6 Hrs

Learning Objectives:

- Develop skill in English

CONTENT

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

Teaching Learning Activities

- Exercise on:
- Debating
- Participating in seminar, panel, symposium
- Telephonic conversation

Assessment Methods

- Assessment of the skills based on the check list

UNIT: V

TIME: 4 Hrs

Learning Objectives

- Develop skill in listening comprehension

CONTENT

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

Teaching Learning Activities

- * Exercise on :
 - Listening to audio, video tapes and identify the key points

Assessment Methods

- * Assessment of skills based on the check list

Bibliography:

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

SOCIOLOGY

Placement: FIRST YEAR

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: I

TIME: 1 Hrs

Learning Objectives:

- State the importance of Sociology in Nursing.

CONTENT

Introduction

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

Teaching Learning Activity

- Lecture Discussion

Assessment Methods

- Essay type
- Short Answers

UNIT: II

TIME: 3 Hrs

Learning Objectives

- Describe the interstate relationship of individual in society and community.

CONTENT

Individual & Society

- Society and Community
- Nature of Society
- Difference between Society and Community
- Process of Socialization and Individualization
- Personal disorganization

Teaching Learning Activity

- Lecture Discussion

Assessment Methods

- Essay type
- Short Answers

UNIT: III

TIME: 3 Hrs

Learning Objectives

- Describe the influence of culture and on health and disease.

CONTENT

Culture

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

Teaching Learning Activity

- Lecture Discussion
- Panel Discussion

Assessment Methods

- Essay Type
- Short Answers

UNIT: IV

TIME: 4 Hrs

Learning Objectives:

- Identify various social groups and their interactions.

CONTENT

Social groups and Processes

- 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

Teaching Learning Activity

- Lecture Discussion

Assessment Methods

- Essay Type
- Short Answers

UNIT: V

TIME: 6 Hrs

Learning Objectives

- Explain the growth of population in India and its impact on health.

CONTENT

Population

- Society and population

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

Teaching Learning Activity

Lecture Discussion
Community Identification

Assessment Methods

Essay Type
Short Answers
Assessment of report on community identification

UNIT: VI

TIME: 5 Hrs

Learning Objectives

- Describe the institutions of family and marriage in India.

CONTENT

Family and marriage

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

Teaching Learning Activity

- Lecture Discussion
- Family Case Study

Assessment Methods

- Essay Type
- Short Answers
- Assessment of family case study

UNIT: VII

TIME: 7 Hrs

Learning Objectives

- Describe the class and caste system and their influence on health and health practices

CONTENT

Social Stratification

- Meaning & types of Social stratification
- The Indian Caste System- Origin & Features
- Features of Caste in India Today
- Social Class System and Status Social Mobility- Meaning & Types
- Races 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

Teaching Learning Activity

- Lecture Discussion
- Community survey

Assessment Methods

- Essay Type
- Short Answers
- Assessment of report on community survey

UNIT: VIII

TIME: 6 Hrs

Learning Objectives

- Describe the types of communities in India, their practices and the impact on health.

CONTENT

Types of Communication in India (Rural, Urban and Regional)

- Features of villages 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

Teaching Learning Activity

- Lecture Discussion

- Visits to rural and urban community
- Community Survey

Assessment Methods

- Essay Type
- Short Answers
- Assessment of report on community survey

UNIT: IX

TIME: 4 Hrs

Learning Objectives

- Explain the process of Social Change.

CONTENT

Social Change

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

Teaching Learning Activity

- Lecture Discussion

Assessment Methods

- Essay Type
- Short Answers

UNIT: X

TIME: 4 Hrs

Learning Objectives

- Describe the Social system and inter-relationship of social organizations.

CONTENT

Social organization and social system

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

Teaching Learning Activity

Lecture Discussion
Observation visits

Assessment Methods

- Essay Type
- Short Answers
- Assessment of visit report

UNIT: XII

TIME: 15 Hrs

Learning Objectives

- Describe the role of the nurse in dealing with social problems in India.

CONTENT

Social Problems

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

Teaching Learning Activity

- Lecture Discussion
- Institutional visits

Assessment Methods

- Essay Type
- Short Answers
- Assessment of visit reports

Bibliography

Textbook:

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Suggested References:

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2. Mehta (SA), Study of Rural Sociology in India, Chand & Co.
3. Ogberner (F), Handbook of Sociology, Eurasoa Publishing, New Delhi.
4. Majmudar (DN), An Introduction to Social Anthropology, Asia Publishing house, Bombay.
5. Indirani (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 Para medicals, Jaypee Brothers, New Delhi, 2006.

PSYCHOLOGY

Placement: FIRST YEAR

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: I

TIME (Hrs): 2

Learning Objectives

- Describe the history, scope and methods of psychology

CONTENT

- History and origin of science of psychology
- Definition and Scope of psychology
- Relevance to nursing
- Methods of Psychology

Teaching Learning Activity

- Lecture Discussion

Assessment Method

- Essay type
- Short answers

UNIT: II

TIME (Hrs): 4

LEARNING OBJECTIVES

- Explain the biology of Human behaviour

CONTENT

Biology of behavior

- Body mind relationship-modulation process in health and illness
- Genetics 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

Teaching Learning Activity

- Lecture Discussion

Assessment Method

- Essay type
- Short answers

UNIT: III

TIME (Hrs): 20

LEARNING OBJECTIVES

- Describe various cognitive processes and their applications

CONTENT

Cognitive Processes

- Attention : Types, determinants, Duration & Degree, Alterations
- Perception : Meaning, Principles, factors affecting, Errors
- Learning : Nature, Types, learner and learning, Factors influencing, Laws and Theories, process, transfer, study habits
- Memory : Meaning, Types, Nature, Factors influencing, Development Theories and methods of Memorizing and Forgetting
Thinking: Types and levels, Stages of development, Relationship with language and communication
Intelligence: Meaning, Classification, Uses, Theories
Aptitude; Concept, Types, Individual differences and Variability
- Psychometric assessments of cognitive processes
- Alterations in cognitive processes
- Applications

TEACHING LEARNING ACTIVITY

- Lecture Discussion
- Psychometric assessment
- Practice sessions

Assessment Method

- Essay type
- Short answers

UNIT: IV

TIME (Hrs): 8

Learning Objectives

- Describe motivation, emotions, stress, attitudes and their influence on behaviour

CONTENT

Motivation and Emotional Processes:

- 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

Teaching Learning Activity

- Lecture Discussion
- Role plays
- Case discussion
- Demonstration

Assessment Method

- Essay type
- Short answers

UNIT: V

TIME (Hrs): 7

Learning Objectives

- Explain the concepts of personality and its influence on behaviour

CONTENT

Personality

- Definitions, Topography, Types, Theories
- Psychometric assessments of personality
- Alterations in personality
- Applications

Teaching Learning Activity

- Lecture Discussion
- Demonstration

Assessment Method

- Essay type
- Short answers

UNIT: VI

TIME (Hrs): 7

Learning Objectives

- Describe the psychology of people during the life cycle

CONTENT

Developmental Psychology

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

Teaching Learning Activity

- Lecture Discussion
- Case Discussion

Assessment Method

- Essay type
- Short answers

UNIT: VII

TIME (Hrs): 8

Learning Objectives

- Describe the characteristics of Mentally Healthy person Explain Ego defence mechanisms

CONTENT

Mental Hygiene and Mental Health:

- Concepts of mental hygiene and mental health
- Characteristics of mentally healthy person
- Warning signs of poor mental health
- Promotive and preventive mental health- strategies and services
- Ego defence mechanisms and implications
- Personal and social adjustments
- Guidance and Counseling
- Role of Nurse

Teaching Learning Activity

- Lecture Discussion
- Case Discussion
- Role play
- Demonstration

Assessment Method

- Essay type
- Short answers

UNIT: VIII

TIME (Hrs): 4

Learning Objectives

- Explain the psychological assessments and role of nurse

CONTENT

Psychological assessment & tests:

- Types, Development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment

Teaching Learning Activity

- Lecture Discussion
- Demonstration
- Practice sessions

Assessment Method

- Assessment of practice

Bibliography

Text book:

1. Morgon (CT), Introduction to Psychology, Tata McGraaw Hill, New Delhi, 20th edition, 2003.

Suggested References

1. Atkinson (RL), Hilgard's introduction to psychology, Harcourt college publishers, Philadelphia, 13th Edition, 2000.

2. Shelley, Taylor's Health Psychology, Tata McGraw hill publishing Co. Ltd, Sidney, 6th 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, 2nd Edition, 2006.

6. Gross ®, Psychology for Nurses and Allied Heaalth Professionals, Hodder Arnold, London, 2007.

INTRODUCTION TO COMPUTER

PLACEMENT: FIRST YEAR

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: I

TIME: 3 hrs

LEARNING OBJECTIVES

- Identify & define various concepts used in computer in nursing.
- Identify application of computer in nursing.

CONTENT

Introduction

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

TEACHING LEARNING METHODS

- Lecture discussion.
- demonstration

ASSESSMENT METHOD

- Short answers
- Objective type

UNIT: II

TIME: 6 + 20 hrs (Thr +Pr)

LEARNING OBJECTIVES

- Describe and use the disk operating system
- Demonstrates skill in the use of ms office

CONTENT

- Introduction to disk operating system
 - DOS
 - Windows (all version)
- Introduction
 - MS word
 - MS- excel with pictorial presentation
 - MS-access
 - MS-PowerPoint

TEACHING LEARNING METHODS

- Lecture discussion.
- Demonstration
- Practice session

ASSESSMENT METHOD

- short answers
- objective type
- practical exam

UNIT: III

TIME: 2 + 3 hrs (Thr +Pr)

LEARNING OBJECTIVES

- Demonstrates skill in using multi media
- Identify features of computer aided teaching and testing

CONTENT

- Multi media: types and uses
- Computer aided teaching and testing

TEACHING LEARNING METHODS

- Lecture discussion.
- Demonstration

ASSESSMENT METHOD

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

UNIT: IV

TIME: 1 + 3 hrs (Thr +Pr)

LEARNING OBJECTIVES

- Demonstrate use of internet and email

CONTENT

- Use of internet and email

TEACHING LEARNING METHODS

- Lecture discussion.
- Demonstration
- Practice session

ASSESSMENT METHOD

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

UNIT: V

TIME: 2 + 2 hrs (Thr +Pr)

LEARNING OBJECTIVES

- Describe and use the statistical packages

CONTENT

- Statistical packages :types and their features

TEACHING LEARNING METHODS

- Lecture discussion.
- Demonstration
- Practice session

ASSESSMENT METHOD

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

UNIT: VI

TIME: 1 + 2 hrs (Thr +Pr)

LEARNING OBJECTIVES

- Describe the use of hospital management system

CONTENT:

- Hospital management systems : types and uses

TEACHING LEARNING METHODS

- Lecture discussion.
- Demonstration

ASSESSMENT METHOD

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

Bibliography

Textbook:

1. Jain (NC), computers for nurses, AIBTS publishers.

NURSING FOUNDATION

Placement: First year	Time: Theory:	265 hrs
	Lab:	200 hrs
	Clinicals:	450 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: I

TIME: 10 hrs

LEARNING OBJECTIVES:

- Describe the concept of health, illness and health care agencies.

CONTENT:

Introduction:

- Concept of health : health – illness continuum
- Factors influencing health
- Causes and risk factors for developing illness
- Body defenses : 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 diseases
- Primary health care and its delivery : role of nurse

TEACHING LEARNING METHODS:

- Lecture discussion.
- Visit to health care agencies

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: II

TIME: 16 hrs

LEARNING OBJECTIVES:

- Explain concept and scope of nursing
- Describe values , code of ethics and professional conduct for nurses in India

CONTENT:

- Definition and characteristics of a profession
- Nursing :
 - Definition, concepts, philosophy, objectives.
 - Characteristics, nature, and scope of nursing practice
 - Functions of nurse
 - Qualities of nurse
 - Categories of nursing personnel
 - Nursing as a profession
 - History of nursing in India.
- Values : definition, types, values clarification and values in professional nursing : caring and advocacy
- Ethics :
 - definition and ethical principles
 - code of ethics and professional conduct of nurses

TEACHING LEARNING METHODS:

- Lecture discussion.
- Case discussion
- Role plays

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: III

TIME: 4 hrs

LEARNING OBJECTIVES:

- Explain the admission and discharge procedure
- Perform the admission and discharge procedure

CONTENT:

Hospital Admission and Discharge

- Admission to the hospital
 - Unit and its preparation :
Admission bed
 - Admission procedures
 - Special considerations
 - Medico-legal issues

- Role and responsibilities of the nurse.
- Discharge from the hospital
 - Types: Planned discharge, LAMA and abscond, Referrals and Transfers.
 - Discharge Planning
 - Discharge Procedures
 - Medico-legal issues
 - Roles and responsibilities of the nurse
 - Care of the unit after discharge

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Lab practice
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: IV

TIME: 10 hrs

LEARNING OBJECTIVES:

- Communicate effectively with patient, families and team members and maintain effective human relations (projecting professional image)
- Appreciate the importance of patient teaching in nursing

CONTENT:

Communication and Nurse Patient relationship

- Communication : Levels, Elements, Types, Modes, Process, Factors influencing Communication
Methods of effective communication:
 - Attending skills
 - Rapport building skills
 - Empathy skills
 - Barriers to effective communication
- Helping relationships (NPR): Dimensions of Helping Relationship, Phases of a Helping Relationship
- Communicating effectively with 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)
- Patient teaching ; Importance, Purposes, Process, Role of Nurse and Integrating teaching in Nursing Process

TEACHING LEARNING METHODS:

- Lecture discussion.
- Role play and video film on the nurses interacting with the patient
- Practice session on patient teaching
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: V

TIME: 15 hrs

LEARNING OBJECTIVES:

- Explain the concept, uses, format and steps of nursing process
- Documents nursing process as per the format

CONTENT:

The Nursing Process

- Critical Thinking and Nursing Judgment :
 - Critical Thinking : Thinking and Learning
 - Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
 - Nursing Process Overview : Application in Practice
 - Nursing process format : Current format, INC
- Assessment:
- Collection of Data : Types, Sources, Methods
 - Formulating Nursing judgment
- Data interpretation Nursing Diagnosis:
- Identification of client problems
 - Nursing diagnosis statement
 - Difference between medical and nursing diagnosis
- Planning:
- Establishing priorities
 - Establishing goals and expected outcomes
 - Selection of interventions :
- Protocols and Standing orders
- Writing the Nursing care plan
- Implementation:
- Implementing the plan of care
- Evaluation:
- Outcome of care
 - Review and Modify
- Documentation and Reporting

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Exercise
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: VI

TIME: 4 hrs

LEARNING OBJECTIVES:

- Describe the purposes, types and techniques of recording and reporting

CONTENT:**Documentation and Reporting**

- 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

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practical session
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: VII

TIME: 15 hrs

LEARNING OBJECTIVES:

- Describe the principles and techniques of monitoring and maintaining vital signs
- Monitor and maintain vital signs

CONTENT:

Vital signs

- Guidelines for taking vital signs
- Body temperature :
 - Physiology, Regulation, Factors affecting body temperature
 - Assessment of body temperature : sites, equipments and technique, special considerations
 - Temperature alterations : Hyperthermia, 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
- Blood pressure :
 - Assessment of blood pressure : sites, equipments and technique and special considerations
 - Alterations in blood pressure
- Recording of vital signs

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practical session
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: VIII

TIME: 30 hrs

LEARNING OBJECTIVES:

- Describe the purpose and process of health assessment
- Describe the health assessment of each body system
- Perform health assessment of each body system

CONTENT:

Health assessment

- 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

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practice on simulators
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: IX

TIME: 5 hrs

LEARNING OBJECTIVES:

- Identify the various machinery, equipment and linen and their care

CONTENT:

Machinery, Equipment and linen

- Types : Disposables and reusables- Linen, Rubber goods, Glass ware, Metal, Plastics, Furniture, Machinery
- Introduction :
 - Indent
 - Maintenance
 - Inventory

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: X

TIME: 21 hrs

LEARNING OBJECTIVES:

- Describe the basic, physiological and psychosocial needs of patient
- Describe the principles and techniques for meeting basic physiological and psychosocial needs of patient
- Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient

CONTENT:

Meeting needs of patient

- Basic needs (Activities of Daily Living)

Providing safe and clean environment:

- Physical environment : Temperature, Humidity, Noise, Ventilation, Light, Odour, Pests control
- Reduction of physical hazards : fire, accidents
- Safety devices : Restraints, Side rails, Airways, Trapez, etc.,
- Role of nurse in providing safe and clean environment

Hygiene:

- Factors influencing hygienic practices
- Hygienic care : Care of the Skin-Bath and pressure points, Feet and Nail, Oral cavity, Hair care, Eyes, Ears and Nose

Assessment, principles, types, equipments, procedure, special considerations

- Patient environment : Room, Equipment and Linen, Making patient beds
- Types of beds and bed making

- Comfort :

- Factors influencing comfort
- Comfort devices

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practice sessions
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type
- Assess with check list and clinical practical examination

UNIT: XI

TIME: 39 hrs

LEARNING OBJECTIVES:

CONTENT:

Physiologic needs:

Sleep and Rest:

- Physiology of sleep
- Factors affecting sleep
- Promoting rest and sleep
- Sleep disorders

Nutrition:

- Importance
- Factors affecting Nutritional needs
- Assessment of nutritional needs : variables
- Meeting nutritional needs :
Principles, equipments, procedure and special considerations
Oral
External: Naso/Orogastric, Gastrostomy
Parenteral

Urinary elimination:

- Review of physiology of urinary elimination, composition and characteristics of urine
- Factors influencing urination
- Alteration in urinary elimination
- Types and collection of urine specimen : Observation, Urinetesting
- Facilitating urine elimination : assessment, types, equipments, procedures and special considerations
- Providing urinal/bedpan Condom drainage
- Perineal care
- Catheterization
- Care of urinary drainage
- Care of urinary diversions
- Bladder irrigation

Bowel elimination:

- Review of physiology of bowel elimination, composition and characteristics of feces
- Factors affecting bowel elimination
- Alterations in bowel elimination
- Types and collection of specimen of feces : Observation
- Facilitating bowel elimination : assessment, equipment, procedures and special considerations
- Passing of flatus tube
- Enemas
- Suppository
- Sitz bath
- Bowel wash
- Care of ostomies

Mobility and Immobility:

- Principles of body mechanics
- Maintenance of normal body alignment and mobility
- Factors affecting body alignment and mobility
- Hazards associated with immobility
- Alteration in body alignment and mobility
- Nursing interventions for impaired body alignment and mobility : Assessment, Types, Devices used, Method and Social considerations, Rehabilitation aspects
- Range of motion exercises
- Maintaining body alignment: positions
- Moving
- Lifting
- Transfer4ring
- Walking
- Restraints

Oxygenation:

- Review of cardio-vascular and respiratory physiology
- Factors affecting oxygenation
- Alterations in oxygenation
- Nursing interventions in oxygenation : assessment, types, equipments used, procedure and special considerations
- 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

Fluid, Electrolytes and Acid-Base Balances:

- 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 psycho social needs
 - Assist with coping and adaptation
 - Creating therapeutic environment Recreational and Diversional therapies

UNIT: XII

TIME: 20 hrs

LEARNING OBJECTIVES:

Describe principles and techniques for infection control and bio medical waste management in supervised clinical settings

CONTENT:

Infection control in clinical settings

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

UNIT: XIII**TIME:** 40 hrs**LEARNING OBJECTIVES:**

- Explain the principles, routes, effects of administration of medications
- Calculate conversions of drugs and dosages within and between systems of measurements
- Administer drugs by the following routes-oral, intra dermal, subcutaneous, intramuscular, intra venous, topical, inhalation.

CONTENT:

- General principles/considerations
 - Purposes of medication
 - Principles : 5 rights, special considerations, prescriptions, safety in administering medications and medication errors
 - Drug forms
 - Routes of administration
 - Storage and maintenance of drugs and nurse's responsibility
 - Broad classification of drugs
 - Therapeutic effects, side effects, toxic effects, idiosyncratic reactions, drug tolerance, drug interactions
 - Systems of drug measurement: Metric system, apothecary system, Household measurements, solutions
 - Converting measurements units: Conversion within one system, conversion between systems, dosage calculations
 - Terminologies and abbreviations used in prescriptions of medications
- Oral Drugs Administration : Oral, Sublingual and Buccal- equipment, procedure
- Parenteral
 - Types of parenteral therapies
 - Types of syringes, needles, canula and infusion sets
 - Protection from needle stick injuries; Giving medications with a safety syringes
 - Routes of parenteral therapies : Intra dermal : Purposes, site, equipment, procedure, special considerations
 - Subcutaneous: purposes, site, equipment, procedure, special considerations
 - Intra muscular: purposes, site, equipment, procedure, special considerations
 - Intra venous: purposes, site, equipment, procedure, special considerations
 - Advanced techniques : epidural, intra thecal, intra osseous, intra peritoneal, intra plural, intra arterial Role of nurse
- Topical Administration : purposes, site, equipment, procedure, special considerations
 - Application to skin
 - Application to mucus membrane:
Direct application of liquids- Gargles and swabbing the throat
Insertion of Drug into body cavity:
Suppository/medicated packing in rectum/vagina
 - Instillation : Ear, Eye, Nasal, Bladder, Vaginal, Rectal
 - Irrigations : Ear, Eye, Nasal, Bladder, Vaginal, Rectal
 - Spraying : Nose and Throat
- Inhalation : Nasal, oral, endotracheal/tracheal (steam, oxygen and medications)-purposes, site, equipment, procedure, special considerations

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practice sessions
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type
- Assess with check list and clinical practical examination

UNIT: XIV**TIME:** 10 hrs**LEARNING OBJECTIVES:**

- Describe the pre and post operative care of patients
- Explain the process of wound healing
- Explain the principles and techniques of wound care
- Perform care of wounds

CONTENT:**Meeting needs of peri operative patients**

- Definition and concept of peri operative nursing
- Preoperative phase :
 - Preparation of patient for surgery
- Intra operative :
 - Operation theatre setup and environment
 - Role of nurse
- Post operative phase :
 - Recovery unit
 - Post operative unit
 - Post operative care
- Wounds : types, classifications, wound healing process, factors affecting wound healing
- Surgical asepsis
- Care of the wound: Types, equipment, procedure, special considerations
 - Dressings, suture care
 - Care of drainage
 - Application of bandages, binders, splints and slings
 - Heat and Cold Therapy

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Practice sessions
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers

- Objective type
- Assess with check list and clinical practical examination

UNIT: XV

TIME: 15 hrs

LEARNING OBJECTIVES:

- Explain the care of patients having alterations in body functioning

CONTENT:

Meeting special needs of the patient

- Care of the patients having alteration in
 - Temperature (hyper and hypothermia): Types, Assessment, Management
 - Sensorium (unconsciousness): Assessment, Management
 - Urinary elimination (retention and incontinence): Assessment, Management
 - Functioning of sensory organs (visual and hearing impairment)
 - Assessment of self care ability
 - Communication methods and special considerations
 - Mobility (physically challenged, cast): Assessment of self – care ability
 - Mental status (mentally challenged) : Assessment of self care ability
 - Communication methods and special considerations
 - Respiration (distress): Types, Assessment, Management
 - Comfort (pain): Nature, Types, Factors influencing pain, coping, Assessment, Management
 - Treatments related to gastro intestinal system : Naso gastric suctioning, Gastric irrigation, Gastric analysis

TEACHING LEARNING METHODS:

- Lecture discussion.
- Case discussion
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers
- Objective type

UNIT: XVI

TIME: 5 hrs

LEARNING OBJECTIVES:

- Explain the care of terminally ill patients

CONTENT:

Care of Terminally ill patients

- Concepts of loss, grief, grieving process
- Signs of clinical death
- Care of dying patient: special considerations, Advance directives – Medico- Legal issues
- Care of dead body: equipment, procedure and care of unit
- Autopsy
- Embalming

TEACHING LEARNING METHODS:

- Lecture discussion.
- Demonstration
- Case discussion/Role play
- Practice session
- Supervised clinical practice

ASSESSMENT METHOD:

- Essay type
- Short answers

UNIT: XVII**TIME:** 6 hrs**LEARNING OBJECTIVES:**

- Explain the basic concepts of conceptual and theoretical models of nursing

CONTENT:**Professional nursing concepts and practices**

- Conceptual and theoretical models of nursing practice : Introduction to models-holistic model, health belief model, health promotion model, etc.,
- Introduction to theories in nursing-Peplau's, Handerson's, Oram's, Neuman's, Roger's and Roy's
- Linking theories with nursing process

TEACHING LEARNING METHODS:

- Lecture discussion.

ASSESSMENT METHOD:

- Essay type
- Short answers

References**Text book:**

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

NURSING FOUNDATION – PRACTICAL

Time: Practical – 650 Hrs

OBJECTIVES:

SKILLS

Hospital admission and discharge (III):

- Admission
- Prepare unit for new patient
- Prepare admission bed
- Perform admission procedure
 - New patient
 - Transfer in
- Prepare patient records

Discharge/Transfer out:

- Give discharge counseling
- Perform discharge procedure (Planned discharge, LAMA, Abscond, Referrals and Transfer)
- Prepare records of discharge/transfer
- Dismantle, and disinfect unit and equipment after discharge/transfer

Perform assessment:

- History taking, Nursing diagnoses, Problem list, Prioritization, Goals and Expected outcomes, Section of interventions
- Write Nursing Care Plan
- Give care as per the plan
 - Assist patient in moving, lifting, transferring, walking
 - Restraints

Oxygen administration

Suctioning: Oro pharyngeal, Naso pharyngeal

Chest physiotherapy and postural drainage

Case of chest drainage

CPR: Basic life support

Intra venous therapy

Blood and blood component therapy

Collect/assist for collection of specimens, for investigations Urine, sputum, feces, vomitus, blood and other body fluids

Perform lab tests:

Urine: Sugar, Albumin, Acetone

Blood: Sugar (with strip/Gluco-meter)

Hot and Cold applications:

Local and general Sitz bath

Communicating and assisting with self – care of visually and hearing impaired patients

Communicating and assisting with self care of mentally challenged/disturbed patients

Recreational and Diversional therapies

Caring of patients with alterations in sensorium

Infection control

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

- Practice Standard Safety precautions (Universal precautions)

Decontamination of equipment and unit:

- Surgical asepsis :
 - Sterilization
 - Handling sterilized equipment
 - Calculate strengths of lotions
 - Prepare lotions
- Care of articles

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

Administration of medications

- Administer medications indifferent forms and routes
- Oral, Sublingual and Buccal
- Parenteral : Intra dermal, Sub cutaneous, Intra muscular, etc.,
- Assist with Intra venous medications
- Drug measurements and dose calculations
- Preparation of lotions and solutions
- Administer topical applications
- Insertion of drug into body cavity : Suppository and medicataed packing etc.,
- Instillation of medicines and spray into Ear, Eye, Nose and Throat
- Irrigations : Eye, Ear, Bladder, Vagina and Rectum
- Inhalations : Dry and Moist
- Care of dying patient
- Caring and packing of dead body
- Counseling and supporting grieving relatives
- Terminal care of the unit

ASSIGNMENTS

- Practice in Unit/hospital
- Write nursing process records of patient
- Simulated-1
- Actual-1
- Observation study-2
- Department of Infection control & CSSD
- Visits CSSD, write observation report-1
- Collection of samples for culture
- Do clinical posting in infection control department and write report
- Practice in lab/ward

ASSESSMENT NETGIDS

- Evaluate with check list
- Assessment of clinical performance with rating scale
- Completion of Practical record
- Assessment of Nursing Process records with checklist
- Assessment of actual care given with rating scale
- Assess observation study with check list
- Evaluate all procedures with check list

ANATOMY AND PHYSIOLOGY **ANATOMY**

PLACEMENT: FIRST YEAR

Time: Theory – 60 Hrs

UNIT - I

TIME (Hrs): 5

Learning Objectives

- Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands

CONTENT

Introduction to Anatomical Terms And Organization Of The Human Body

- Human cell structure
- Tissues – Definition, Types, Characteristics, Classification, Location, Functions and Formation
- Membranes and glands – classification and structure Alterations in disease applications and implications in nursing

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, microscopic slides, Skeleton and Torso
- Demonstrate cells, types of tissues, membranes and glands
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT - II

TIME (Hrs): 6

Learning Objectives

- Describe the structure and functions of bones and joints

CONTENT

The Skeletal System

- 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

Teaching Learning Activities

- Lecture Discussion

- Explain using charts, Skeleton Loose bones and Joints
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: III

TIME (Hrs): 7

Learning Objectives

- Describe the structure and functions of muscles

CONTENT

The Muscular System

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models and films
- Demonstrate muscular movements
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: IV

TIME (Hrs): 7

Learning Objectives

- Describe the structure and functions of nervous system

CONTENT

The Nervous System

- 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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models slides, specimens
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: V

TIME (Hrs): 6

Learning Objectives

- Explain the structure and functions of sensory organs

CONTENT

The Sensory Organs

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models slides, specimens
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: VI

TIME (Hrs): 7

Learning Objectives

- Describe the structure & Functions of circulatory and lymphatic system

CONTENT

Circulatory and Lymphatic System

- 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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models slides, specimens
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: VII

TIME (Hrs): 5

Learning Objectives

- Describe the structure & Functions of respiratory system

CONTENT

The Respiratory System

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models slides, specimens
- Record book

Assessment Methods

- Short answer questions
- Objective type

UNIT: VIII

TIME (Hrs): 6

LEARNING OBJECTIVES

- Describe the structure & Functions of digestive system

CONTENT

The Digestive System

- Structure of Alimentary tract and accessory organs of digestion
Alterations in disease
Applications and implications in nursing

TEACHING LEARNING ACTIVITIES

- Lecture Discussion
- Explain using charts, models slides, torso, specimens
- Record book

ASSESSMENT METHODS

- Short answer questions
- Objective type

UNIT: IX

TIME (Hrs): 4

LEARNING OBJECTIVES

- Describe the structure & Functions of excretory system

CONTENT

The Excretory System (Urinary)

- Structure of organs of urinary system : Kidney, Ureters, Urinary bladder, Urethra
Alterations in disease
Applications and implications in nursing

TEACHING LEARNING ACTIVITIES

- Lecture Discussion
- Explain using charts, models slides, torso, specimens
- Record book

ASSESSMENT METHODS

- Short answer questions
- Objective type

UNIT: X

TIME (Hrs): 4

LEARNING OBJECTIVES

- Describe the structure & Functions of endocrine system

CONTENT

The Endocrine System

- Structure of Pituitary, Pancreas, Thyroid, Parathyroid, Thymus and Adrenal glands
Alterations in disease
Applications and implications in nursing

TEACHING LEARNING ACTIVITIES

- Lecture Discussion
- Explain using charts, models slides, torso, specimens
- Record book

ASSESSMENT METHODS

- Short answer questions
- Objective type

UNIT: XI

TIME (Hrs): 4

LEARNING OBJECTIVES

- Describe the structure & Functions of reproductive system

CONTENT

The Reproductive System including Breast

- Structure of female reproductive organs
- Structure of male reproductive organs
- Structure of the breast
Alterations in disease
Applications and implications in nursing

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, models slides, torso, specimens
- Record book

Assessment Methods

- Short answer questions
- Objective type

Bibliography

Text Book:

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

Suggested References:

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

PHYSIOLOGY

PLACEMENT: FIRST YEAR

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: I

TIME: 4 Hrs

Learning Objectives

- Describe the physiology of cell, tissues, membranes and glands

Content

Cell Physiology

- Tissue formation, repair
- Membranes & glands- functions
- Alterations in disease
- Applications and implications in nursing

Teaching Learning Activities

Lecture discussion

Assessment Methods

- Short answer questions
- Objective type

UNIT: II

TIME: 4Hrs

Learning Objectives

Describe the formation and growth and movements of skeleton system

Content

Skeletal system

- 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

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Models, Specimen and Films
- Demonstration of joint movements

Assessment Methods

- Short answer question
- Objective type

UNIT: III

TIME: 4Hrs

Learning Objectives

- Describe the muscle movements and tone and demonstrate muscle contraction and tone

Content

Muscular System

- Muscle movements, Muscle tone, Physiology of contraction, levels and maintenance of posture
- Alteration in disease
- Application and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Models, Specimen, and Films
- Demonstration of muscle movements, tone and contraction

Assessment Methods

- Short answer question
- Objective type

UNIT: IV

TIME: 7Hrs

Learning Objectives

- Describe physiology of nerve stimulus, reflexes, brain, cranial, and spinal nerves
- Demonstrate reflex action and stimulus

Content

Nervous system

- Functions of Neuroglia & Neurons
- Stimulus
- Nerve – impulse-definitions and mechanism
- Functions of brain, Spinal cord, cranial and spinal nerves
- Cerebrospinal fluid-composition, Circulation and functions
- Reflex arc , reflex action and reflexes
- Autonomic functions
- Pain: somatic, visceral and referred
- Autonomic learning and bio feed back
- Alternations in disease
- Applications and implications in nursery

Teaching Learning Activities

- Lecture discussion
- Explain using charts, films
- Demonstration of nerve stimulus, reflex action, reflexes

Assessment Methods

- Short answer question
- Objective type

UNIT: V

TIME: 8rs

Learning Objectives

- Describe the physiology of blood and functions of heart
- Demonstrate blood cell count, coagulation, grouping, Hb., BP and pulse monitoring

Content

Circulatory System

- Blood formation, composition , blood groups , blood coagulation
- Hemoglobin: Structure, synthesis and Breakdown, variation of molecules, estimation
- Functions of heart, conduction, cardiac cycle, circulation – principles, control, factors influencing BP, and pulse
- Alternation in disease
- Applications and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, films
- Demonstration of blood cell count, coagulation, grouping , hemoglobin estimation, heart conduction system
- Measurements of pulse, BP

Assessment Methods

Short answer question

Objective type

UNIT: VI

TIME: 6Hrs

Learning Objectives

- Describe the physiology and mechanism of respiration
- Demonstrate spirometry

Content

The Respiratory System

- Functions of respiratory organs
- Physiology of respirations
- Pulmonary ventilation, Volume
- Mechanics of respirations
- Gaseous exchange in lungs
- Carriage of oxygen and carbon-di-oxide
- Exchanges of gases in tissues
- Regulation of respirations
- Alterations in disease
- Applications and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films
- Demonstration of spirometry

Assessment Methods

- Short answer question
- Objective type

UNIT: VII

TIME: 6Hrs

Learning Objectives

- Describe the physiology of digestive system
- Demonstrate BMR

Content

The Digestive System

- Functions of organs of digestive tract, movements of alimentary tract, digestion in mouth, stomach, small intestine, absorption of food, functions of liver, gall bladder and pancreas
- Metabolism of carbohydrate, protein and fat

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films

Assessment Methods

- Short answer question
- Objective type

UNIT: VIII

TIME: 5Hrs

Learning Objectives

- Describe the physiology of excretory system

Content

- The Excretory system
- Functions of kidneys, ureters, urinary bladder urethra Composition of urine
- Mechanism of urine formation
- Regulations of body temperature
- Fluid and electrolyte balance
- Alterations in disease
- Applications and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films

Assessment Methods

- Short answer question
- Objective type

UNIT: IX

TIME: 4Hrs

Learning Objectives

- Describe the physiology of sensory organs

Content

The Sensory Organs

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

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films

Assessment Methods

- Short answer question
- Objective type

UNIT: X

TIME: 5Hrs

Learning Objectives

- Describe the physiology of endocrine glands

Content

- Functions of pituitary, pineal body, Thymus, Thyroid, Parathyroid, pancreas, Suprarenal, placenta and Ovaries and Testes
- Alterations in disease
- Applications and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films
- Demonstration of BMR

Assessment Methods

- Short answer question
- Objective type

UNIT: XI

TIME: 5Hrs

Learning Objectives

Describe the physiology of male and female reproductive system

Content

- 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:
- fertility system
- Alterations in disease
- Applications and implications in nursing

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, films, models, specimens

Assessment Methods

- Short answer question
- Objective type

UNIT: XII

TIME: 2Hrs

Learning Objectives

Describe the physiology of Lymphatic and Immunological system

Content

Lymphatic and Immunological system

- Circulation of lymph
- Community
- Formations of T- Cells and B- Cells

- Types of Immune response
- Antigens
- Cytokines
- Antibodies

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films

Assessment Methods

- Short answer question
- Objective type

Bibliography:

Textbook:

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

Suggested Reference:

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

NUTRITION AND BIO-CHEMISTRY

NUTRITION

PLACEMENT: **FIRST YEAR**

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: I

TIME: 4Hrs

Learning Objectives

Describe the relationship between nutrition & health

Content

Introduction

- Nutrition:
- History
- Concepts
- Role of nutrition in maintaining health
- Nutritional problems in India
- National Health Policy
- Factors affecting food and nutrition: socio- economic, culture, 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

Assessment Methods

- Short answer question
- Objective type

UNIT: II

TIME: 2Hrs

Learning Objectives

Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates

Content

Carbohydrates

- Classification
- Caloric value
- Recommended daily allowances
- Dietary Sources
- Functions
- Digestion, Absorption, Storage and metabolism of carbohydrates
- Malnutrition: Deficiencies and Over consumption

Teaching Learning Activities

- Lecture discussion
- Explaining using charts

Evaluation

- Short answer
- Objective type

UNIT: III

TIME: 2Hrs

Learning Objectives

Describe the classification, functions, sources recommended daily allowances (RDA) of Fats

Content

Fats

- Classification
- Caloric value
- Recommended daily allowances
- Dietary Sources
- Functions
- Digestion, Absorption, Storage and Metabolism of carbohydrates
- Malnutrition: Deficiencies and Over consumption

Teaching Learning Activities

- Lecture discussion
- Explaining using charts

Evaluations

- Short answer
- Objective type

UNIT: IV

TIME: 2Hrs

Learning Objectives

Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins

Content

Proteins

- Classification
- Caloric value
- Recommended daily allowances
- Dietary Sources
- Functions
- Digestion, Absorption, Storage and Metabolism of carbohydrates
- Malnutrition: Deficiencies and Over consumption

Teaching Learning Activities

- Lecture discussion
- Explaining using charts

Evaluation

- Short answer
- Objective type

UNIT: V

TIME: 3Hrs

Learning Objectives

Describe the daily calorie requirement for different categories of people

Content

Energy

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

Teaching Learning Activities

- Lecture discussion
- Explaining using charts
- Demonstration

Evaluation

- Short answer
- Objective type

UNIT: VI

TIME: 4Hrs

Learning Objectives

Describe the classification, functions, sources and recommended daily allowances (RAD) of Vitamins

Content

Vitamins

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

Teaching Learning Activities

- Lecture discussion
- Explaining using charts

Evaluation

- Short answer
- Objective type

UNIT: VII

TIME: 4Hrs

Learning Objectives

Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals

Content

Minerals

- Classification
- Caloric value
- Recommended daily allowances
- Dietary Sources
- Functions
- Absorption, synthesis, metabolism, storage and excretion
- Deficiencies
- Over consumption and toxicity

Teaching Learning Activities

- Lecture Discussion
- Explaining using charts

Evaluation

- Short answer
- Objective type

UNIT: VIII

TIME: 3Hrs

Learning Objectives

Describe the sources, functions and requirements of Water & Electrolytes

Content

Water & Electrolytes

- 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

Teaching Learning Activities

- Lecture discussion
- Explaining using charts

Evaluation

- Short answer
- Objective type

UNIT: IX

Time: Theory -5 Hrs Practical: 15Hrs

Learning Objectives

- Describe the cookery rules and preservation of nutrients
- Prepare and serve simple beverages and different types of foods

Content

Cookery rules and preservation of nutrients

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

Teaching Learning Activities

- Lecture discussion
- Demonstration practice
- Practice session

Evaluation

- Short answer
- Objective type
- Assessment of practice sessions

UNIT: X

Time: Theory -7 Hrs Practical: 5Hrs

Learning Objectives

Describe the plan, balanced diet for different categories of people

Content

Balance Diet

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

Teaching Learning Activities

- Lecture discussion
- Explaining using charts
- Practice session
- Meal planning

Evaluation

- Short answer
- Objective type
- Exercise on menu planning

UNIT: XI

TIME: 4Hrs

Learning Objectives

- Describe various national programs related to nutrition
- Describe the role of nurse in assessment of nutritional status and nutrition education

Content

Role of Nurse in Nutritional Programs

- 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 Inter national agencies working towards food/ nutrition
- NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc.,
- Assessment of nutritional status
- Nutrition education and role of nurse

Teaching Learning Activities

- Lecture discussion
- Explaining with Slide/Film show
- Demonstration of Assessment of nutritional status

Evaluation

- Short answer
- Objective type

Bibliography

Textbook

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

Reference:

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

BIOCHEMISTRY

PLACEMENT: FIRST YEAR

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: I

TIME: 3Hrs

Learning Objectives

- Describe the structure, composition and functions of cell
- Differentiate between Prokaryote cell
- Identify techniques of Microscopy

Content

Introduction

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

Teaching Learning Activities

- Lecture discussion using charts, slides
- Demonstrate use of microscope

Assessment Methods

- Short answer question
- Objective type

UNIT: II

TIME: 6Hrs

Learning Objectives

Describe structure and functions of cell membrane

Content

- Structure and functions of cell membrane
- Fluid mosaic model tight junction, Cytoskeleton
- Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump
- Acid Base balance maintenance & Diagnostic tests - PH Buffers

Teaching Learning Activities

Lecture discussion

Assessment Methods

- Short answer question
- Objective type

UNIT: III

TIME: 6Hrs

Learning Objectives

Explain the metabolism of carbohydrates

Content

Composition and metabolism of Carbohydrates

- Types, structure, composition and uses
- Monosaccharides
- Disaccharides
- Polysaccharides
- Oligosaccharides
- Metabolism Pathways of glucose:
- Glycolysis
- Glyuconeogenesis: Cori's cycle,
- Tricarboyclic acid (TCA) cycle
- Pentose phosphate pathways (Hexose monophosphate)
- Regulation of blood glucose level
- Investigation and their interpretations

Teaching Learning Activities

- Lecture discussion
- Demonstration of blood glucose monitoring

Assessment Methods

- Short answer question
- Objective type

UNIT: IV

TIME: 4Hrs

Learning Objectives

Explain the metabolism of Lipids

Content

Composition and metabolism of Lipids

- Types, structure, composition and uses of fatty acids
- Nomenclature, Roles and Prostaglandins
- Metabolism of fatty acid
- Breakdown
- Synthesis
- Metabolism of triacylglycerols
- Cholesterol metabolism
- Biosynthesis and its Regulation
- Bile salts and bilirubin
- Vitamin D
- Steroid hormones
- Lipoproteins and their functions:
- VLDLs, IDLs, LDLs and HDLs

Teaching Learning Activities

- Lecture discussion
- Explain using Charts, Films

Assessment Methods

- Short answer question
- Objective type

UNIT: V

TIME: 6Hrs

Learning Objectives

Explain the metabolism of Amino acids and proteins

Content

Composition and metabolism of Amino acids and proteins

- Types, structure, Composition and uses of Amino acids and proteins
- Metabolism of Amino acids and proteins
- Proteins synthesis, targeting and glycosylation
- Chromatography
- Electrophoresis
- Sequencing
- Metabolism of Nitrogen:
- Fixation and Assimilation
- Urea Cycle
- Hemes and chlorophylls
- Enzymes and co-enzymes
- Classification
- Properties
- Absorption
- Storage & transportation
- Normal concentration,
- Investigations and their interpretations

Teaching Learning Activities

- Lecture discussion
- Demonstration of Laboratory tests

Assessment Methods

- Short answer question
- Objective type

UNIT: VI

TIME: 8Hrs

Learning Objectives

Describe the types, composition and utilization of Vitamins & minerals

Content

- Composition of Vitamins and Minerals
- Vitamins and minerals:
- Structure
- Classification
- Properties
- Absorption
- Storage & transportation
- Normal concentration
- Investigations and their interpretations

Teaching Learning Activities

- Lecture discussion
- Demonstration of Laboratory tests

UNIT: VII

TIME: 3Hrs

Learning Objectives

Describe Immuno chemistry

Content

Immunochemistry

- 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

Teaching Learning Activities

- Lecture discussion
- Demonstration of Laboratory tests

Assessment Methods

- Short answer question
- Objective type

References

Textbook:

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

Suggested Reading:

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

COMMUNITY HEALTH NURSING — I

Placement: SECOND YEAR

Time: Theory - 90Hrs.
Practical - 135Hrs.

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

CONTENTS

Unit – I

Time: 2 Hrs

Learning Objectives

Describe the concept and dimensions of health.

Introduction

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

Teaching Learning Activities

- Lecture Discussion

Assessment Methods

- Short Answers

Unit – II

Time: 20 Hrs

Learning Objectives

Describe the determinants of health.

Determinants Of Health

- Eugenics
- Environment:
 - Physical: Air, Light, Ventilation, Water, Housing, Sanitation, and Disposal of waste, Disposal of dead bodies, Forestation, Noise, and 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
 - Recreation and sleep
 - Sexual life
 - Spiritual life philosophy
 - Self reliance
 - Dietary pattern
 - Education•
 - Occupation
- Financial Management
 - Income
 - Budget
 - Purchasing power
 - Security

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, graphs, models, films, slides
- Visits to water supply, sewage disposal, milk plants, slaughter house etc.,

Assessment Methods

- Essay Type
- Short Answers
- Objective Type

Unit – III

Time: 10 Hrs.

Learning Objectives

Describe the concepts, scope, uses, methods and approaches of epidemiology

Epidemiology

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, graphs, models, films, slides

Assessment Methods

- Essay Type
- Short Answers

Unit IV

Time: 25 Hrs

Learning Objectives

Describe epidemiology and nursing management of common communicable diseases.

Epidemiology And Nursing Management Of Common Communicable Diseases

- Respiratory infections
 - Small pox
 - Chicken pox
 - Measles
 - Influenza
 - Rubella
 - ARI's & Pneumonia
 - Mumps
 - Diphtheria
 - Whooping cough
 - Meningococcal meningitis
 - Tuberculosis
 - SARS
- Intestinal Infections
 - Poliomyelitis
 - Viral Hepatitis
 - Diarrhoeal diseases
 - Typhoid fever
 - Food poisoning
 - Amoebiasis
 - Hook worm infection
 - Ascariasis
 - Dracunculiasis
- Arthropod infections
 - Dengue
 - Malaria
 - Filariasis
- Zoonoses
 - Viral
 - Rabies
 - Yellow fever
 - Japanese encephalitis
 - Kyasnur Forrest Disease
- Bacterial
 - Brucellosis
 - Plagues
 - Human Salmonellosis
 - Anthrax
 - Leptospirosis
- Rickettsial diseases
 - Rickettsial Zoonoses
 - Scrub typhus
 - Murine typhus
 - Tick typhus
 - Q fever
- Parasitic zoonoses
 - Taeniasis
 - Tetanus
 - Leprosy
 - STD & RTI

- Yaws
- HIV / AIDS, Any other

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, graphs, models, films, slides
- Seminar
- Supervised field practice-health centers, clinics and homes
- Group projects / Health education

Assessment Methods

- Essay Type
- Short Answers
- Objective Type

Unit V

Time: 10 Hrs

Learning Objectives

Describe epidemiology and nursing management of common non-communicable diseases.

Epidemiology and nursing management of common Non- communicable diseases

- Malnutrition: Under nutrition, over nutrition, nutritional deficiencies
- Anaemia
- Hypertension
- Stroke
- Rheumatic Heart Disease
- Coronary Heart Disease
- Cancer
- Diabetes mellitus
- Blindness
- Accidents
- Mental illness
- Obesity
- Iodine deficiency
- Fluorosis
- Epilepsy

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, graphs, models, films, slides
- Seminar
- Supervised field practice-health centers, clinics and homes
- Group projects / Health education

Assessment methods

- Essay Type
- Short Answers
- Objective Type

Unit VI

Time: 6 Hrs

Learning Objectives

- Describe the concepts and scope of demography.
- Describe methods of data collection, analysis and interpretation of demographic data

Demography

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

Teaching Learning Activities

- Lecture Discussion
- Community identification survey

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of Survey report

Unit VII

Time: 17 Hrs

Learning Objectives

- Identify the impact of population explosion in India.
- Describe methods of population control.

Population and its control

- Population explosion and its impact on social, economic development of individual, society and country
- Population control:
 - Overall development, Women empowerment, Social, Economic and Educational development
- Limiting family size;
 - Promotion of small family norm
 - Methods: spacing (Natural, Biological, Chemical, Mechanical methods, etc.,)
 - Terminal: Surgical methods
 - Emergency contraception

Teaching Learning Activities

- Lecture Discussion
- Counseling
- Demonstration
- Practice session
- Supervised field practice

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of Survey report

Bibliography

Textbook:

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

Suggested Reference

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

COMMUNITY HEALTH NURSING — I — PRACTICAL

Placement: SECOND YEAR

Time: Practical — 135 Hrs.

Areas: Community health nursing

Duration (in Weeks): 2 Wks urban and 2wks rural

Objectives

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

Skills

- Use Techniques of interpersonal relationship
- Identification of health determinants of community
- History taking
- Physical examination
- Collect specimens —
 - Sputum, malaria smear
 - Perform simple lab tests at centre-blood for
 - Haemoglobin and sugar, urine for albumin and sugar
 - Administer vaccines and medications to adults
 - Counsel and teach individual, family and community
 - Nutrition
 - Hygiene
 - Self health monitoring
 - Seeking health services
 - Healthy life style
 - Family welfare methods
 - Health promotion

Assignments

- To work with 2 assigned families each in urban and rural
- Family study
- Family study-1
- Observation report of community-1
- Health talks-2(1 in urban and in rural)

Assessment Methods

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

MICROBIOLOGY

Placement: SECOND YEAR

Time: 60 Hours (Theory 45+15 lab)

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

CONTENTS

Unit – I

Time: 5 Hrs

Learning Objectives

- Explain the concepts and principles of microbiology and their importance in nursing.

Introduction

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

Teaching Learning Activities

- Lecture Discussion

Assessment methods

- Short Answers
- Objective Type

Unit – II

Time: 10 Hrs (Theo) + 5 Hrs (Prac)

Learning Objectives

- Describe the structure, classification morphology and growth of bacteria.
- Identify Micro-organisms.

General Characteristics of Microbes

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration

Assessment methods

- Short Answers
- Objective Type

Unit – III

Time: 10 Hrs (Theo) + 2 Hrs (Prac)

Learning Objectives

- Describe the methods of infection control.
- Identify the role of nurse in hospital infection control program.

Infection control

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration
- Visits to CSSD
- Clinical practice

Assessment methods

- Short Answers
- Objective Type

Unit – IV

Time: 12 Hrs (Theo) + 4 Hrs (Prac)

Learning Objectives

- Describe the different disease producing organisms.

Pathogenic organisms

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

- Rodents & vectors Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms Collection, handling and transportation of various specimens

Teaching Learning Activities

- Lecture Discussion
- Demonstration
- Clinical practice

Assessment methods

- Short Answers
- Objective Type

Unit – V

Time: 8 Hrs (Theo) + 4 Hrs (Prac)

Learning Objectives

- Explain the concept of immunity, hyper sensitivity and immunization.

Immunity

- Immunity - Types, classification
- Antigen and antibody reaction
- Hypersensitivity — skin test
- Immuno prophylaxis
- Vaccines & sera-Types & Classification, storage and handling, cold chain
- Immunization for various diseases
- Immunization Schedule

Teaching Learning Activities

- Lecture Discussion
- Demonstration
- Visits to CSSD
- Clinical practice

Assessment methods

- Short Answers
- Objective Type

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, 3rd Edition, 2004.
2. Ichhpujani (RL), Microbiology for Nurses, J.P Brotheres Publishers, New Delhi, 2nd Edition, 2003.

PHARMACOLOGY, PATHOLOGY AND GENETICS

PHARMACOLOGY

Placement: SECOND YEAR

Time: Theory - 45 Hours

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

CONTENTS

Unit – I

Time: 3 Hrs

Learning Objectives

- Describe pharmaco-dynamics, pharmacokinetics, classification and the principles of drug administration.

Introduction to pharmacology

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

Teaching Learning Activities

- Lecture Discussion

Assessment methods

- Short Answers
- Objective Type

Unit – II

Time: 6 Hrs.

Learning Objectives

- Explain Chemotherapy of specific infections and infestations and nurse's responsibilities.

Chemotherapy

- Pharmacology of commonly used :
 - Penicillin
 - Cephalosporins
 - Aminoglycosides
 - Macrolide & Broad Spectrum Antibiotics
 - Sulfonamides
 - Quinolones
 - Antiamoebic
 - Antimalarials
 - Anthelmintics
 - Antiscabies agents
 - Antiviral & antifungal agents
 - Antitubercular drugs
 - Anti leprosy drugs
 - Anticancer drugs
 - Immuno-suppressants: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – III

Time: 2 Hrs

Learning Objectives

- Describe Antiseptics, disinfectants, insecticides, and nurse's responsibilities.

Pharmacology of commonly used antiseptic, disinfectants and insecticides

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

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – IV

Time: 2 Hrs.

Learning Objectives

- Describe drugs action on Gastro Intestinal system and nurse's responsibilities.

Drugs acting on G.L system

- Pharmacology of commonly used :
 - Antiemetics
 - Emetics
 - Purgatives
 - Antacids
 - Cholinergic
 - Anticholinergics
 - Fluid and electrolyte
 - Anti diarrhoeals
 - Histamines: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – V

Time: 2 Hrs

Learning Objectives

- Describe the drug used on Respiratory Systems and nurse's responsibilities.

Drugs used on Respiratory Systems

- Pharmacology of commonly used:
 - Antiasthmatics
 - Mucolytics
 - Decongestants
 - Expectorants
 - Antitussives
 - Bronchodilators
 - Broncho constrictors
 - Antihistamines Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – VI

Time: 2 Hrs.

Learning Objectives

- Describe drugs used on Urinary System and nurse's responsibilities.

Drugs used on Urinary System

- Pharmacology of commonly used :
 - Diuretics and antidiuretics
 - Urinary antiseptics
 - Cholinergic and anticholinergics
 - Acidifiers and alkalinizers: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – VII

Time: 4 Hrs.

Learning Objectives

- Describe drugs used in dead diction, emergency, deficiency of vitamins and minerals.

Miscellaneous

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

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – VIII

Time: 1 Hr.

Learning Objectives

- Describe drugs and on skin and mucous membranes and nurse's responsibilities.

Drugs used on skin and mucous membranes

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

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – IX

Time: 8 Hrs

Learning Objectives

- Describe drugs used on Nervous Systems and nurse's responsibilities.

Drugs acting on Nervous system

Basic and applied pharmacology of commonly used:

- Analgesics and Anaesthetics
- Analgesics
 - Non steroidal anti inflammatory (NSAID) drugs
 - Antipyretics
 - Hipnotics and sedatives
 - Opioids

- Non-opioids
- Tranquilizers
- General and local anaesthetics
- Gases
- Oxygen
- Nitrous Oxide
- Carbondioxide
- Cholinergic and anticholinergics:
 - Muscle relaxants
 - ~ Major tranquilizers
 - ~ Ant-psychotics
 - ~ Antidepressants
 - ~ Anticonvulsants
 - ~ Adrenergics
 - ~ Noradrenergics
 - ~ Mood stabilizers
 - ~ Acetylcholine
 - ~ Stimulants:

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

Unit – X

Time: 5 Hrs.

Learning Objectives:

- Describe drugs used on Cardio Vascular Systems and nurse's responsibilities.

Cardiovascular drugs

- Haematinics
- Cardiotonics
- Anti-anginals
- Anti-hypertensives & Vasodilators
- Anti-arrhythmics
- Plasma expanders
- Coagulants & anticoagulants
- Antiplatelets & thrombolytics
- Hypolipidemics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – XI

Time: 4 Hrs.

Learning Objectives

- Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities.

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

- Insulins & Oral hypoglycemics
- Thyroid supplements and suppressants
- Steroids, Anabolics
- Uterine stimulants and relaxants
- Oral contraceptives
- Other estrogen-progestrone preparations
- Corticotrophine & Gonadotropines
- Adrenaline
- Prostaglandins
- Calcitonins
- Calcium salts
- Calcium regulators: Composition, action, dosages, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation.

Assessment methods

- Short Answers
- Objective Type

Unit – XII

Time: 6 Hrs

Learning Objectives

- Demonstrate awareness of the common drugs used in alternative system of medicine.

Introduction to drugs used in alternative systems of medicines

- Ayurveda, Homeopathy, Unani and Siddha etc

Teaching Learning Activities

- Lecture Discussion
- Drug study / presentation

Assessment methods

- Short Answers
- Objective Type

Bibliography:

Textbook:

1. Satoshkar, Pharmacology & Pharmacotherapeutics, 20th Edition, 2007.

Suggested References:

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

PATHOLOGY AND GENETICS

Section A

PATHOLOGY

Placement: SECOND YEAR

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.

CONTENTS

Unit – I

Time: 3 Hrs

Learning Objectives

- Define the common terms used in pathology.
- Appreciate the deviations from normal to abnormal structure and functions of the body system.

Introduction

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts.

Assessment methods

- Short Answers
- Objective Type

Unit – II

Time: 10 Hrs (Theo) + 5 Hrs (Prac)

Learning Objectives

- Explain the pathological changes in disease conditions of various systems.
- Special Pathology**
- Pathological changes in disease conditions of various systems.
 - Respiratory tract
 - Tuberculosis, Bronchitis, Pleural effusion and Pneumonia
 - Lung abscess, Emphysema, Bronchiectasis
 - Bronchial asthma, COPD & Tumors
 - Cardio-vascular system
 - Pericardial effusion
 - Rheumatic heart disease
 - Infective endocarditis, atherosclerosis
 - Ischemia, infarction & aneurysm
 - Gastro Intestinal Tract
 - Peptic ulcer, typhoid
 - Carcinoma of GI tract buccal, Esophageal,
 - Gastric & intestinal
 - Liver, Gall bladder & Pancreas
 - Hepatitis, Chronic liver abscess, cirrhosis
 - Tumours of liver, gall bladder and pancreas,
 - Cholecystitis
 - Kidneys & Urinary tract
 - Glomerulonephritis, pyelonephritis
 - Calculi, renal failure, renal carcinoma & cystitis
 - * Male genital systems
 - Cryptorchidism, testicular atrophy -
 - Prostatic hyperplasia, carcinoma penis & prostate
 - Female genital system
 - Fibroids
 - Carcinoma cervix and Endometrium
 - Vesicular mole, choriocarcinoma
 - Ectopic gestation
 - Ovarian cyst & tumour
 - Cancer Breast
 - Central Nervous system
 - Hydrocephalus,
 - Meningitis, encephalitis,
 - Vascular disorders — thrombosis, embolism
 - Stroke, paraplegia, quadriplegia
 - Tumours, meningiomas — gliomas
 - Metastatic tumour
 - Skeletal system
 - Bone healing, osteoporosis, osteomyelitis
 - Arthritis & tumours

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, slides, specimens, X-rays and Scans.
- Visits to Pathology Lab, endoscopy unit and OT

Assessment methods

- Short Answers
- Objective Type

Unit – III

Time: 4 Hrs (Theo) + 3 Hrs (Prac)

Learning Objectives

- Describe various laboratory tests in assessment and monitoring of disease conditions.

Clinical Pathology

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration.
- Visits to Clinical Pathology & Bio-Chemistry Lab, and Blood Bank.

Assessment methods

- Short Answers
- Objective Type

Unit – IV

Time: 2 Hrs (Theo) + 1 Hr (Prac)

Learning Objectives

- Describe the laboratory tests for examination of body cavity fluids, transudates and exudates.

Examination of body cavity fluids, transudates and exudates

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration.

Assessment methods

- Short Answers
- Objective Type

Unit – V

Time: 1 Hr (Theo) + 1 Hr (Prac)

Learning Objectives

- Describe the laboratory tests for examination of Urine and faeces.

Urine and faeces

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration.

Assessment methods

- Short Answers
- Objective Type

Section - B

GENETICS

Placement: SECOND YEAR

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

CONTENTS

Unit – I

Time: 3 Hrs

Learning Objectives

- Explain nature, principles and perspectives of heredity.

Introduction

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, slides.

Assessment methods

- Short Answers
- Objective Type

Unit – II

Time: 3 Hrs

Learning Objectives

- Explain maternal, prenatal and genetic influences on development of defects and disease.

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

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

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, slides.

Assessment methods

- Short Answers
- Objective Type

Unit – III

Time: 3 Hrs

Learning Objectives

- Explain the screening methods for genetic defects and diseases in neonates and children.

Genetic testing in the neonates and children

- Screening for
 - Congenital abnormalities
 - Developmental delay
 - Dysmorphism

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, slides.

Assessment methods

- Short Answers
- Objective Type

Unit – IV

Time: 3 Hrs

Learning Objectives

- Identify genetic disorders in adolescents and adults.

Genetic conditions of adolescents and adults

- Cancer genetics Familial Cancer
- Inborn errors of metabolism
- Blood group alleles and haematological disorder
- Genetic haemochromatosis
- Huntington's disease
- Mental illness

Teaching Learning Activities

- Lecture Discussion
- Explain using charts, slides.

Assessment methods

- Short Answers
- Objective Type

Unit – V

Time: 3 Hrs

Learning Objectives

- Describe the role of nurse in genetic services and counseling.

Services related to Genetics

- Genetic testing
- Human genome project
- Gene therapy
- The Eugenics movement
- Genetic Counseling Legal and Ethical issues

Role of nurse

Teaching Learning Activities

- Lecture Discussion

Assessment methods

- Short Answers
- Objective Type

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**

Placement: SECOND YEAR

Time: Theory- 210 hours **Practical -** 950 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.

CONTENTS

Unit – I

Time: 15 Hrs

Learning Objectives

- Appreciate the trends in medical and surgical nursing.
- Describe the role of a nurse in caring for adult patient in hospital and community.
- Describe the concepts of Medical Surgical aspects.

Introduction

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

Teaching Learning Activities

- Lecture Discussion
- Demonstration
- Practice Session.
- Supervised clinical practice.

Assessment methods

- Short Answers
- Objective Type
- Assessment of skills with check list.

Unit – II

Time: 20 Hrs

Learning Objectives

- Describe the common signs, symptoms, problems and their
- Specific nursing intervention.

Common signs and symptoms and management

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

Teaching Learning Activities

- Lecture Discussion
- Seminar
- Case Discussion.

Assessment methods

- Short Answers
- Objective Type

Unit – III

Time: 20 Hrs.

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems.

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

- Review of anatomy and physiology of respiratory system,
- Nursing Assessment —History and Physiology assessment
- Etiology, Pathophysiology,
- Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adult including elderly with —
 - Upper Respiratory tract infections.
 - Bronchitis
 - Asthma
 - Emphysema
 - Empyema
 - Atelectasis
 - Chronic obstructive -
 - Pulmonary Diseases(COPD)
 - Bronchiectasis
 - Pneumonia -
 - Pulmonary tuberculosis
 - Lung abscess
 - Pleural effusion
 - Cysts and Tumours

- Chest injuries
- Respiratory arrest and insufficiency
- Pulmonary embolism special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of respiratory disorders

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – IV

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems.

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

- Review of anatomy and physiology of digestive system,
- Nursing Assessment —History and Physical assessment
- Etiology, Pathophysiology,
- Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management
- Disorders of
 - Oral cavity- lips, gums, tongue, salivary glands and teeth
 - Oesophagus- inflammation, stricture, obstruction, bleeding and tumours
 - Stomach and deudenumhiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis
 - Small intestinal disorders inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation
 - Large intestinal disorders- Colitis, inflammation and infection, obstruction and tumour and lump
 - Hernias
 - Appendix-inflammation, mass, abscess, rupture
 - Anal & Rectum; hemorrhoids, fissures, Fistulas

- Peritonitis/acute abdomen
- Pancreas; inflammation, cyst, abscess and tumours
- Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours
- Gall Bladder; inflammation, obstruction, stones and tumours

Special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of disorders of digestive system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – V

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardio vascular problems.
- Describe the vascular conditions and its nursing management.

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

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

Heart

- Coronary artery diseases
 - Ischemic Heart Disease
 - Ischemic Heart Disease
 - Coronary atherosclerosis
 - Angina pectoris

- Myocardial infarction
 - Valvular disorders of the heart
 - Congenital and acquired
 - Rheumatic Heart diseases
 - Endocarditis, Pericarditis Myocarditis
 - Cardio Myopathies
 - Cardiac dysrhythmias, Heart Block
 - Congestive cardiac failure
 - Cor-pulmonale, Pulmonary edema, cardiogenic shock, cardiac tamponade
 - Cardiac emergencies and arrest
 - Cardio Pulmonary Resuscitation (CPR)
 - Blood
 - Anaemias
 - Polycythemia
 - Bleeding disorders; clotting factor defects and platelets defects
 - Thalassemia
 - Leukaemias
 - Leukopenias and agranulocytosis
 - Lymphomas
 - Myelomas
 - Special therapies
 - Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.
 - Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion committee. Bio-safety and waste management in relation to blood Transfusion
 - Role of a nurse in Organ donation, retrieval and banking
- Alternative therapies Nursing procedures Drugs used in treatment of blood and cardio vascular disorders

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.
- Visit to blood bank
- Participation in blood donation camps
- Counseling.

Assessment methods

- Essay Type
- Short Answers

- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – VI

Time: 10 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genitor-urinary system.

Nursing management of patients (adults including elderly) with genito-urinary problems

- Review of anatomy and physiology of genitor-urinary system
- Nursing Assessment — History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & Nursing management of
 - Nephritis
 - Nephrotic syndrome
 - Nephrosis
 - Renal calculus
 - Tumours
 - Acute renal failure
 - Chronic renal failure
 - End stage renal transplant
 - Congenital disorders, urinary bladder and urethra inflammation, infection, stricture, obstruction, tumour, prostate
 - Special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of genitor-urinary disorders

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – VII

Time: 5 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genitor-urinary system.

Nursing management of patients (adults including elderly) reproductive system

- Review of anatomy and physiology of male reproductive system.
- Nursing Assessment — History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system
- Congenital malformation; cryptorchidism
- Hypospadiasis, Epispadiasis
- Infections
- Testis and adjacent structures
- Penis
- Prostate: inflammation, infection, hypertrophy, tumour
- Sexual Dysfunction
- Infertility
- Contraception
- Breast; gynecomastia, tumour
- Climacteric changes special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of disorders of male reproductive system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – VIII

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito-urinary system.

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

- Review of anatomy and physiology endocrine system.
- Nursing Assessment — History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of Thyroid and Parathyroid
 - Diabetes mellitus

- Diabetes insipidus
- Adrenal tumour
- Pituitary disorders, special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of disorders of endocrine system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – IX

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of skin.

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

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

Special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of disorders of Integumentary system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs

- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – X

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system.

Nursing management of patients (adults including elderly) with Musculoskeletal problems

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

Nursing procedures: Drugs used in treatment of disorder of musculoskeletal system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice

- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – XI

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system.

Nursing management of patients (adults including elderly) with Immunological problems

- Review of Immune system. Nursing Assessment — History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of—
- Immunodeficiency disorder
- Primary immuno deficiency
- Phagocytic dysfunction
- B-cell and T-cell deficiencies
- Secondary immunodeficiencies
- Acquired immunodeficiencies and Acquired immunodeficiency Syndrome (AIDS)
- Incidence of HIV & AIDS
- Transmission-Prevention of Transmission 0
- Standard safety precautions
- Role of Nurse; Counseling
- Health education and home care consideration
- National AIDS Control Programme-NACO, various national and international agencies
- Infection control program
- Rehabilitation Special therapies, alternative therapies

Nursing procedures: Drugs used in treatment of disorders of Immunological system

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – XII

Time: 30 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with communicable disease.

Nursing management of patients (adults including elderly) with Musculoskeletal problems

- Review of anatomy and physiology of musculoskeletal system.
- Nursing Assessment — History and Physical assessment Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietetics. Control and eradication of common Communicable Diseases
 - Tuberculosis
 - Diarrhoeal diseases
 - Hepatitis A-B
 - Herpes
 - Chickenpox
 - Smallpox
 - Typhoid
 - Meningitis
 - Gas gangrene
 - Leprosy'
 - Dengue
 - Plague
 - Malaria
 - Diphtheria
 - Pertussis
 - Poliomyelitis
 - Measles
 - Mumps
 - Influenza
 - Tetanus
 - Yellow fever
 - Filariasis
 - HIV, AIDS
- Reproductive Tract Infections
- Special Infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Diseases Hospitals

Special therapies, alternative therapies

Nursing Procedures: Drug used in treatment of Communicable diseases

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.

- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

Unit – XIII

Time: 30 Hrs

Learning Objectives

- Describe the Organisation and physical set up of operation theatre.
- Identify the various instruments and equipments used for common surgical procedures.
- Describe the infection control measures in the Operation theatre.
- Describe the role of the nurse in the Peri Operative nursing care.

Pen Operative nursing

- Organisation and Physical set up of the Operation Theatre (OT):
 - Classifications
 - O. T. DESIGN
 - Staffing
 - Members of the OT team
 - Duties and responsibilities of nurse in O.T.
 - Principles of Health and operating room attire.
 - Instruments,
 - Sutures and suture materials
 - Equipments
 - O.T. tables and sets for common surgical procedures
 - Positions and draping for common surgical procedures
 - Scrubbing procedures
 - Gowning and gloving
 - Preparation of O.T. Sets
 - Monitoring the patient during surgical procedures
- Maintenance of therapeutic environment in O.T.
- Standard Safety measures
 - Infection control; fumigation, disinfection and sterilisation
 - Biomedical waste management
 - Prevention of accidents and hazards in O.T.
- Anaesthesia
 - Types
 - Methods of administration
 - Equipments
 - Drugs
- Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques
- Legal Aspects

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films slide.
- Demonstration
- Practice Session
- Case Discussion / Seminar
- Health education
- Supervised clinical practice
- Drug book / presentation.

Assessment methods

- Essay Type
- Short Answers
- Objective Type
- Assessment of skills with check list
- Assessment of patient management problem.

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MEDICAL SURGICAL NURSING
(Adult including Geriatrics)-I – Practical

Placement: SECOND YEAR

Time: 950 hours

Areas

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

Duration (in Weeks): 6

Objectives

- Provide nursing care to adult patients with medical disorders
- Counsel and educate patients and families

Skills

- Assessment of the patient
- Taking history Perform general and specific physical examination
- Identify alterations and deviations
- Practice medical surgical asepsis-Standard safety measures
- Administer medications
- Oral, IV, IM, Subcutaneous
- IV therapy
- IV canulation
- Maintenance and Monitoring
- Oxygen therapy by different methods
- Nebulization
- Chest physiotherapy
- Naso gastric feeding
- Assist in common diagnostic
- Perform/Assist in therapeutic procedures
- Blood and component therapy
- Throat Suctioning
- Collect specimens for common investigations.
- Maintain elimination
- Catheterisation
- Bowel wash
- Enema
- Urinary drainage
- Maintain Intake, output and documentation
- Counsel and teach related to specific disease conditions

Assignments

- Plan and give care to 3-4 assigned Patients
- Nursing care plan -2
- Nursing case study / presentation-I
- Drug presentation-1
- Maintain drug book
- Maintain Practical record book

Assessment Methods

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of case study / presentation
- Completion of practical record.

Areas

General Surgical Ward (GI, Urinary, CTVS)

Duration (in Weeks): 6

Objectives

- Provide pre and post operative nursing care to adult patients with surgical disorders
- Counsel and educate patients and families

Skills

- Practice medical surgical asepsis-Standard safety measures
- Pre operative preparation of patients
- Post operative care- Receiving Pt, assessment, monitoring, care
- Care of wounds and drainage
- Suture removal
- Ambulation and exercise
- Naso gastric aspiration
- Care of chest drainage
- Ostomy care
- Gastrostomy
- Colostomy
- Enterostomy
- Blood and component therapy
- Practice universal precautions

Assignments

- Plan and give care to 3-4 assigned Patients
- Nursing care plan -2
- Nursing case study / presentation-I
- Durg presentation-I
- Maintain drug book
- **Assessment Methods**
- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of case study/ presentation
- Completion of practical record.

Areas

Cardiology

Duration (in Weeks): 2

Objectives

- Provide nursing care to patients with cardiac disorders
- Counsel and educate patients and families

Skills

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

Assignments

- Plan and give care to 2-3 assigned patients
- Nursing care Plan-I
- Nursing case study / • Presentation/Health talk-I
- Maintain drug book

Assessment Methods

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of case study / presentation / health talk

Areas

Skin & Communicable diseases Ward

Duration (in Weeks): 1

Objectives

- Identify skin problems
- Provide nursing care to patients with Skin disorders & Communicable diseases
- Counsel and educate patients and families

Skills

- Assessment of the patient with skin disorders
- Assist in diagnostic and therapeutic procedures Administer topical medication
- Practice medical surgical asepsis-Standard safety measures
- Use of personal protective equipment (PPE)
- Give Medicated baths
- Counseling HIV, positive patients

Assignments

- Plan and give care to 2-3 assigned Patients
- Health talk! Counseling HIV positive patients and families — I
- Maintain drug book

Assessment Methods

- Assess performance with rating scale
- Evaluation health talk/Counseling session
- Completion of activity record

Areas

Orthopaedic ward

Duration (in Weeks): 2

Objectives

- Provide nursing care to patients with musculoskeletal disorders
- Counsel and educate patients and families

Skills

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

Assignments

Plan and give care to 2-3 assigned patients

- Nursing care plan -1
- Nursing case study / presentation — 1
- Maintain drug book

Assessment Methods

- Assess performance with rating scale
- Evaluation of Nursing care plan and Nursing case study/presentation
- Completion of activity record

Areas

Operation Theatre Skin & Communicable diseases Ward

Duration (in Weeks): 6

Objectives

- Identify instruments used in common operations
- Participate in infection control practices in the Operation Theatre
- Set-up the table/trolleys for common operative procedures
- Assist in giving anesthesia
- Assist in the operative procedures
- Provide per operative nursing care

Skills

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

Assignments

- Assist as a circulatory nurse in
- Major cases- 10
- Minor cases-S
- Assist as a scrub nurse in
- Major cases-10
- Minor cases-S
- Maintain drug book

Assessment Methods

- Assess performance with rating scale
- Completion of activity record

Areas

ICU, CCU, CARDIAC O.T.

Duration (in Weeks): 2

Objectives

- To gain proficiency in ICU nursing
- Develop advance skill in special procedures used in critical care unit
- Identify potential problems and provide accordingly

- Skill in setting and handling ventilator
- Administer injection in infusion pump.
- Record accurately findings and medications
- Develop JPR with family members
- Acquaint with OT technique

Skills

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

Assignments

- Arterial puncture-5
- Taking out ECG stripe-5
- Tracheal suction-5
- For all assigned patients
- Oxygen administration by CPAP mask and use Ambu bag
- Assessment for all assigned Patient
- Nursing care in ventilator
- Drug sheet

Assessment Methods

- Record book
- Checking with supervisor

Areas

Neuro, ICU, ITU, O.T.

Duration (in Weeks): 2

Objectives

- Develop skill in neurological assessment.
- Give care to the Pt with head injury and spinal injury
- Care with chest surgery and cranial surgery.

Skills

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

Assignments

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

Assessment Methods

- Record book observation Checklist

Areas

Burns and plastic Reconstructive Surgery

Duration (in Weeks): 2

Objectives

- Assess the severity of burns
- Administer rehydration therapy
- Observe reconstructive surgery

Skills

- Nursing Care

Areas

OT Laproscopic Orthopaedic Eye ENT

Duration (in Weeks): 3**Objectives**

- Identify instruments
- Assist in OT set Up
- Supervise sterilization
- Assist in OT table lay out
- Observe immediately after operation
- Supervise infection control.

Assignments

- Assist - cases

Assessment Methods

- Record book

MEDICAL SURGICAL NURSING
(Adult including Geriatrics) –II

Placement: THIRD YEAR

Time: Theory-120Hrs

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 – I

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear Nose and throat.

Content:

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

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

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice.
- Drug book / presentation

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management

Unit – II

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of Eye

Content:

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

- Review of anatomy and physiology of the Eye.
- Nursing Assessment – History and Physical assessment.
- Etiology, Pathophysiology, clinical manifestations, diagnostic treatment modalities & surgical nursing management of Eye disorders:
- Refractive errors o Eyelids-infection, tumours and deformities
- Conjunctiva-inflammation and infection, bleeding
- Cornea-inflammation and infection
- Lens-Cataracts
- Glaucoma
- Disorder of the uveal tract,
- Ocular tumours
- Disorders of posterior chamber and retina: Retinal and vitreous problems.
- Retinal detachment
- Ocular emergencies and their prevention
- Blindness
- National blindness control program
- Eye Banking Eye prostheses and Rehabilitation
- Role of a nurse-Communication with visually impaired patient, Eye camps
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of eye

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Visit to eye bank
- Participation in eye-camps

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – III

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with neurological disorders.

Content:

Nursing management of patient with neurological disorders

- Review of anatomy and physiology of the neurological system
- Nursing Assessment-History and Physical and neurological
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders:
- Congenital malformation
- Headache
- Spinal Injuries:
- Hemiplegia
- Quadraplegia
- Spinal cord compressionherniation of intervertebral disc
- Tumors of the brain & spinal cord
- Intra cranial and cerebral aneurysms
- Infections:
- Meningitis, Encephalitis, Brain abscess, neurocysticercosis.
- Movement disorders V
- Chorea
- Seizures
- Epilepsies
- Cerebro Vascular Accident (CVA)
- Cranial, Spinal NeuropathiesBell’s palsy, trigeminal neuralgia
- Peripheral Neuropathies; Guillain-Barr’s Syndrome
- Myasthenia gravis
- Content Multiple sclerosis
- Degenerative disease
- Delirium
- Dementia
- Alzheimer’s disease
- Parkinson’s disease
- Management of unconscious patients and patients with stroke
- Role of the nurse in communicating with patient having neurological deficit
- Rehabilitation of patients with neurological deficit
- Role of nurse in long stay facility (institutions) and at home

- Special therapies
- Nursing procedures
- Drugs used in treatment of neurological disorders

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – IV

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of female reproductive system.
- Describe concepts of reproductive health and family welfare programme

Content:

Nursing management of patient with disorders of female reproductive system

- Review of anatomy and physiology of the female reproductive system
- Nursing Assessment-History and Physical assessment.
- Breast Self Examination
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of disorders of female reproductive system
- Congenital abnormalities of female reproductive system
- Sexuality and Reproductive Health
- Sexual Health Assessment
- Menstrual Disorders; Dysmenorrhea, Premenstrual Syndrome
- Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia

Pelvic Inflammatory Disease

- Ovarian and fallopian tube disorders; infections, cysts, tumours
- Uterine and cervical disorders, Endometriosis, polyps, Fibroids, Cervical and uterine tumours, Uterine displacement, Cystocele / Urethrocele / Rectocele
- Vaginal disorders; Infections, cysts, tumours
- Diseases of breasts; Deformities, Infections, Cysts and Tumours
- Menopause and Hormonal Replacement Therapy

- Infertility
- Contraception; Types Methods, Risk and effectiveness
 - * Spacing Methods
 - * Barrier methods, Intra Uterine Devices, Hormonal,
 - * Post Conceptional Methods, etc
 - * Terminal methods
 - Sterilization
- Emergency Contraception methods
- Abortion — Natural, Medical and surgical abortion — MTP
 - Act
- Toxic Shock Syndrome
- Injuries and Trauma; Sexual violence
- Special therapies
- Nursing procedures
- Drugs used in treatment of gynecological disorders
- National family welfare programme

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – V

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with burns reconstructive and cosmetic surgery.

Content:

Nursing management of patient with Burs, reconstructive and cosmetic surgery

- Review of anatomy and physiology of skin and connective tissues and various deformities
- Nursing Assessment-History and Physical assessment and Assessment of burns and fluid and electrolyte loss.
- Etiology, Classification, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical
- Nursing management of Burns and Re-constructive and Cosmetic surgery;

- Types of Re-constructive and Cosmetic surgery; for burns, congenital deformities, injuries and cosmetic purposes
- Role of Nurse
- Legal aspects
- Rehabilitation
- Special therapies o Psycho social aspects
- Nursing procedures Drugs used in treatment of Burns, reconstructive and cosmetic surgery

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – VI

Time: 15 Hrs

Learning Objectives

- Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with oncology.

Content:

Nursing management of patient with oncological conditions

- Structure & characteristics of normal & cancer cells
- Nursing Assessment-History and Physical assessment
- Prevention, Screening, Early detection, Warning signs of cancer
- Epidemiology, Etiology, Classification, Path physiology, Staging, clinical manifestations, diagnosis, treatment of oncological conditions
- Common malignancies of various body systems; Oral, larynx, lung, Stomach and Colon, Liver, Leukemias and lymphomas, Breast, cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder, Prostate etc
- Oncological emergencies
- Modalities of treatment
 - * Immunotherapy
 - * Chemotherapy
 - * Radiotherapy
 - * Surgical Interventions
 - * Stem cell and Bone marrow transplants

- * Gene therapy
- *Other forms of treatment
- Psycho social aspects of cancer
- Rehabilitation
- Palliative care; Symptom and Pain management, Nutritional support
- Home care
- Hospice care
- Stomal Therapy
- Special therapies - Psycho social aspects
- Nursing procedures

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – VII

Time: 15 Hrs

Learning Objectives

- Describe the organization of emergency and disaster care services
- Describe the role of nurse in disaster management
- Describe the role of nurse in management of common Emergencies

Content:

Nursing management of patients in EMERGENCY & DISASTER situations

Disaster Nursing:

- Concepts and principles of Disaster Nursing
- Causes and Types of Disaster:
 - Natural and Man made
 - Earthquakes, Floods, Epidemics, Cyclones
 - Fire, Explosion, Accidents
 - Violence, Terrorism, Bio chemical, War
- Policies related to emergency/disaster management: International, National, State and Institutional
- Disaster preparedness
- Team, Guidelines, Protocols, Equipments, Resources
- Coordination and involvement of Community, various Government departments, Non Govt. organizations and International Agencies

- Role of nurse : working
- Legal Aspects of Disaster Nursing
- Impact of Health after effects: Post traumatic stress disaster
- Rehabilitation: Physical, Psycho social, Financial, Relocation

Emergency Nursing

- Concept, priorities, principles and scope of emergency nursing
- Organization of emergency services: physical set up, staffing, equipment and supplies, protocols, concepts of triage and role of triage nurse
- Co ordination and involvement of different departments and facilities
- Nursing assessment - History and Physical assessment
- Etiology, Patho physiology, Clinical manifestations, Diagnosis,
- Treatment modalities and medical surgical nursing management of patient with medical surgical emergency
- Principles of emergency management
- Common emergencies
- Respiratory emergencies
- Cardiac emergencies
- Shock and Hemorrhage
- Pain
- Poly trauma, road accidents, crush injuries, wound
- Seizures
- Thermal Emergencies: Heat stroke & cold injuries
- Pediatric emergencies
- Psychiatric emergencies
- Obstetrical emergencies
- Violence, Abuse, Sexual assault
- Cardio pulmonary resuscitation
- Crisis intervention
- Role of nurse: Communication and Inter Personal Relations
- Medico- legal Aspects

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – VIII

Time: 10 Hrs

Learning Objectives

- Explain the concept and problems of aging.

Content:

Nursing care of the elderly

- Nursing assessment —history and physical assessment
- Aging;
- Demography; Myths and realities
- Concepts and theories of aging
- Cognitive aspects of aging
- Normal biological aging
- Age related body systems changes
- Psysocial aspects of aging
- medications and elderly
- Stress and coping in older adults
- Common health problems and nursing management;
- Cardiovascular, respiratory, Musculoskeletal,
- Endocrine, genitor-urinary, gastrointestinal
- Neurological, skin and other sensory organs
- Psychosocial and sexual
- Abuse of elderly
- Role of nurse for care of elderly: ambulation
- Nutritional, communicational, psychosocial, and spiritual
- Role of nurse for caregivers of elderly
- Role of family and formal and non-formal care givers
- use of aids and prosthesis (hearing aids, dentures)
- legal and ethical issues Provisions and programmes for elderly; privileges, community programmes and health services;
- home and institutional care

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation
- Visit to rehabilitation center

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – IX

Time: 10 Hrs

Learning Objectives

- Describe organization of critical care units
- Describe the role of nurse in management of patients critical care units

Nursing management of patient in critical care units

- Nursing assessment-History and physical assessment
- Classification
- Principles of critical care nursing
- Organization; Physical setup, policies, Staffing norms,
- Protocols, equipment and supplies
- Special equipments; ventilators, cardiac monitors, defibrillators,
- Resuscitation equipments
- Infection control protocols
- Nursing management of critically patients;
- Monitoring of critically ill patient
- CPR-Advance cardiac Life support
- Treatments and procedures
- Transitional care
- Ethical and legal Aspects
- Communication with patient and family
- Intensive care records
- Crisis Intervention
- Death and Dying —coping with
- Drugs used in critical care unit

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

Unit – IX

Time: 10 Hrs

Learning Objectives

Describe the etiology, patho physiology, clinical manifestations, assessment, diagnostic measures and management of patients with occupational and industrial health disorder.

Content:

Nursing management of patients' adults including elderly with occupational and Industrial disorders.

- Nursing assessment - History and physical assessment
- Etiology, pathophysiology ,clinical manifestations ,diagnosis ,treatment modalities and medical & surgical nursing management of occupational and industrial health disorders
- Role of nurse
- Special therapies, alternative therapies,
- Nursing procedures
- Drug used in treatment of occupational and industrial disorders

Teaching Learning Activities

- Lecture Discussion
- Explain using Charts, graphs
- Models, films, slides
- Demonstration
- Practice Session.
- Case discussion / Seminar
- Health Education
- Supervised clinical practice. / presentation
- Drug book / presentation

Assessment methods

- Essay type
- Short Answers
- Objective Type
- Assessment of skills with check list.
- Assessment of patient management problem

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MEDICAL SURGICAL NURSING
(Adult and Geriatrics) —II Practical

Time: Theory 120 Hrs. Practical 470 Hrs

Placement: THIRD YEAR

Areas: ENT

Duration (in wks): 1

Objectives of Posting: Provide care to patients with ENT disorders.
Counsel and educate patient and families.

Skills to be developed:

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

Assignments:

- Provide care to 2 -3 assigned patients
- Nursing care plan-I
- Observation reports of OPD
- Maintain drug book

Assessment Methods:

- Assess each skill with checklist
- Assess performance with rating scale
- Evaluation of observation report of OPD
- Completion of activity record

Areas: Ophthalmology

Duration (in wks): 1

Objectives of Posting:

- Provide care to patients with Eye disorders
- Counsel and educate patient and families

Skills to be developed:

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

Assignments:

- Provide care to 2 -3 assigned patients

- Nursing care plan - I
- Observation reports of OPD and eye bank
- Maintain drug book

Areas: Neurology

Duration (in wks): 2

Objectives of Posting:

- Provide care to patients with Neurological disorders
- Counsel and educate patient and families

Skills to be developed:

- Perform Neurological examination
- Use Gisgow Coma Scale
- Assist with diagnostic procedures
- Assist with therapeutic procedures
- Teach patients and families
- Participate in Rehabilitation program
- Bathing
- Dressing
- Perform active & passive exercises Practice medical & surgical asepsis
- Counsel & Teach patients and families Participate in rehabilitation program

Areas: Oncology Unit

Duration (in wks): 1

Objectives of Posting: Provide care to patients with cancer Counsel and educate patient and Families.

Skills to be developed:

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

Assignments:

- Provide care to 2-3 assigned patients. Nursing care plan
- Observation report of cancer unit.

Assessment Methods:

- Assess each skill with check list.
- Assess performance with rating scale.
- Evaluation of care plan and observation report.
- Completion of activity record.
- Activity record

Areas: Critical Care Unit

Duration (in wks): 2

Objectives of Posting:

- Provide care to critically ill patients
- Counsel patient and families for grief and bereavement.

Skills to be developed:

- Monitoring of patients in ICU
- Maintain flow sheet Care of patient on ventilators
- Perform Endotracheal suction
- Demonstrates use of ventilators, cardiac monitors etc.
- Collect specimens and interprets ABG analysis
- Assists with arterial puncture
- Maintain CVP line
- Pulse Oximetry
- CPR - ALS
- Defibrillators
- Pace makers
- Bag-mask ventilation
- Emergency tray / trolley- Crash Cart
- Administration of drugs
- Infusion pump
- Epidural
- Intrathecal
- Intracardiac
- Total parenteral therapy
- Chest physiotherapy
- Perform active & passive exercises
- Counsel the patient and family in dealing with grieving and bereavement.

Assignments:

- Provide care to 1 assigned patient.
- Observation report of critical care unit
- Drugs book.

Assessment Methods:

- Assess each skill with check list.
- Assess performance with rating scale.
- Evaluation of observation report.
- Completion of activity record.
- Activity record

Areas: Casualty /Emergency

Duration (in wks): 1

Objectives of Posting:

- Provide care to patients in emergency and disaster Situation.
- Counsel patient and families for grief and bereavement.

Skills to be developed:

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

Assignments:

- Observation report of Emergency unit

Assessment Methods:

- Assess performance with rating scale.
- Evaluation of observation report.
- Completion of activity record.

Placement: Third Year**Time: 9 Weeks****Area:** Medical Ward, Surgical ward**Duration (in wks):** Medical Ward: 2, Surgical ward: 2**Objective:** Provide comprehensive care to patients with medical and surgical conditions including emergencies**Skills:**

Integrated Practice

Assessment:

Assess Clinical performance with rating scale

Area: Critical care unit/ ICCU**Duration (in wks):** 1**Objective:** Assist with common operations**Area:** Operation Theatre (Eye, ENT, Neuro)**Duration (in wks):** 2**COMMUNITY HEALTH NURSING –II****Placement:** THIRD YEAR**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.**CONTENTS****Unit – I****Time:** 4 Hrs**Learning Objectives**

- Define concepts, scope, principles and historical development of community Health and community health Nursing

Introduction

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

Teaching Learning Activities

- Lecture Discussion

Assessment methods

- Essay type
- Short Answers

Unit – II

Time: 6 Hrs

Learning Objectives: Describe health plans, policies, various health committees and health problems in India.

Content:

Health planning and policies and problems

- National health planning in India — Five Year Plans
- Various committees and commissions on health and family welfare

Central council for health and family welfare (CCH and FW)

National health policies (1983, 2002)

National population policy

Health problems in India

Teaching Learning Activities:

- Lecture discussion
- Panel discussion

Assessment methods:

- Essay type
- Short answers

Unit – III

Time: 15 Hrs

Learning Objectives:

- Describe the system of delivery of community health services in rural and urban areas.
- List the functions of various levels and their staffing pattern
- Explain the components of health services
- Describe alternative systems of health promotion and health maintenance
- Describe the chain of referral system

Contents:

Delivery of community health services

Planning, budgeting and material management of SCs, PHC and, CHC

Rural: Organization, staffing and functions of rural health services provided by government at:

Village Sub centre

Primary health centre

Community health center / sub divisional

Hospitals

District

State

Centre

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

Slums Dispensaries

Maternal and child health centers

Special Clinics

Hospitals

Corporation / Municipality / Board

Components of health services

- Environmental sanitation
- Health education
- Vital statistics
- M.C.H - antenatal, natal, postnatal MTP Act, female foeticide act,
- child adoption act
- Family Welfare
- National health programmes
- School health services
- Occupational health
- Defence services
- Systems of Medicine and health care
- Allopathy
- Indian System of Medicine and Homeopathy
- Alternative health care systems like yoga, meditation, social and spiritual healing etc.
- Referral system

Teaching Learning Activities:

- Lecture discussion
- Visits to various health delivery systems
- Supervised field practice
- Panel discussion

Assessment methods:

- Essay type
- Short answers

Unit – IV

Time: 25 Hrs

Learning Objectives:

- Describe community Health Nursing approaches and concepts.
- Describe the roles and responsibilities of Community health nursing Personnel.

Contents:

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

- Approaches
 - Nursing theories and Nursing process
 - Epidemiological approach
 - Problem solving approach
 - Evidence based approach

- Empowering people to care for themselves
- Concepts of Primary Health Care:
 - Equitable distribution
 - Community participation
 - Focus on prevention
 - Use of appropriate technology
 - Multi-sectoral approach
- Roles and responsibilities of Community health nursing personnel in
 - Family health services
 - Information Education
 - Communication (IEC)
 - Management information (MIS):
Maintenance of Records & Reports
 - Training and supervision of various categories of health workers
 - National Health Programmes
 - Environmental sanitation
 - Maternal and Child health and Family welfare
 - Treatment of minor ailments
 - School Health Services
 - Occupational Health
 - Organization of clinics, camps: Types, Preparation, Planning, conduct and evaluation
 - Waste management in the center, clinics etc.
 - Home visit: Concept, Principles, Techniques: Bag technique home visit
- Qualities of Community Health Nurse with nursing personnel
- Job description of Community health nursing personnel

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Practice session
- Supervised field practice Participation in camps
- Group Project

Assessment methods:

- Essay type
- Short answers

Unit – V

Time: 15 Hrs

Learning Objectives: Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health.

Content:

Assisting individuals and groups to promote and maintain their health.

Empowerment for self care of individual, families and groups in-Assessment of self and family

Monitoring growth and development

- Mile stones
- Weight measurement
- Social development

- Temperature and Blood pressure monitoring
- Menstrual cycle
- Breast self examination and testicles
- Warning signs of various diseases
- Tests Urine for sugar and albumin, blood sugar
- Seek health services for
- Routine checkup
- Immunization
- Counseling
- Diagnosis
- Treatment
- Follow up

C. Maintenance of Health records for self and family

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

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

F. Waste Management

• Collection and disposal of waste at home and community

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

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

H. Utilize community resources for and family

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

Homes for destitute

Teaching Learning Activities:

Lecture discussion

Demonstration Practice session

Supervised field practice

Individual / group / family / Community health education.

Assessment methods:

- Essay type
- Short answers

Unit – VI

Time: 20 Hrs

Learning Objectives: Describe and national health and family welfare programmes and role of nurse.

Describe the various health schemes in India.

Content:

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

1) National ART Programme

2) Revised National Tuberculosis Control Programme (RNTCP)

- 3) National Anti-Malaria Programme
- 4) National Filaria control programme
- 5) National Guinea worm eradication programme
- 6) National Leprosy eradication programme
- 7) National AIDS control programme
- 8) STD control programme
- 9) National programme for control of blindness
- 10) Iodine deficiency disorder programme
- 11) Expanded programme on immunization
- 12) National Family Welfare Programme-RCH Programme historical development, organization, administration, Research, constraints
- 13) National water supply and sanitation programme
- 14) Minimum Need programme
- 15) National Diabetics control programme
- 16) Polio Eradication Pulse Polio Programme
- 17) National cancer control Programme
- 18) Yaws Eradication Programme
- 19) National Nutritional Anemia prophylaxis programme
- 20) 20 point programme
- 21) ICDS programme
- 22) Mid-day meal applied nutritional programme
- 23) National mental health programme Health ESI CGHS Health insurance

Teaching Learning Activities:

Lecture discussion

Participation in National Health Programmes

Field visits

Assessment methods:

- Essay type
- Short answers

Unit – VII

Time: 5 Hrs

Learning Objectives: Explain the roles and functions of various national and international health agencies.

Content:

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.

Teaching Learning Activities:

- Lecture discussion
- Field visits

Assessment methods:

- Essay type
- Short answers

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COMMUNITY HEALTH NURSING—II Practical

Placement: THIRD YEAR

Time: Practical 330 Hours

Areas: Community Health nursing

Duration (in weeks): 1 week for urban 4 week for rural

Objectives:

- Identify community profile
- Identify prevalent communicable and non- communicable diseases
- Diagnose health needs of Individual, families and community
- Plan, provide and evaluate care
- Participate in school health program
- Participate in national health programmes
- Organise group for self help and involve clients in their own health activities
- Provide family welfare services
- Counsel and educate Individual, family and community
- Collect Vital health statistics
- Maintain Records & Reports

Skills:

- Community health survey
- Community diagnosis
- Family care : Home adaptation of common procedures
- Home visit : Bag technique
- Organize and conduct clinics antenatal, post natal, well baby clinic, camps etc.
- Screen manage and referrals for:
 - High risk mothers and neonates
 - Accidents and emergencies
 - Illnesses : Physical and mental
 - Disabilities
- Conduct delivery at centre / home episiotomy and suturing
- Resuscitate newborn
- School Health Programmes
- Screen, manage, refer children
- Collaborate with health and allied agencies
- Train and Supervise health workers
- Provide family welfare services: insertion of IUD
- Counsel and teach individual, family and community about: HIV, TB, Diabetes, Mental health, adolescents, elderly's health, physically and mentally challenged individuals etc.
- Collect and Calculate vital health statistics
- Document and maintain

Assignments:

Community survey report - 1

Family care study- 1

Project-1

Health talk -1

Case book recording

Assessment methods:

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

Placement: Third Year

Time: 4 Weeks

Areas: Urban

Duration (in weeks): 4

Objectives: Provide comprehensive care to individual, family and community

Skills: Integrated Practice and group project 1 in each rural and urban.

Assessment:

- Assess clinical performance with rating scale
- Evaluation of project

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

MENTAL HEALTH NURSING

Placement: THIRD YEAR

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 – I

Time: 5 Hrs

Learning Objectives:

- Describe the historical development & current trends in mental health nursing
- Describe the epidemiology of mental health problems
- Describe the National Mental Health Act
- Discuss the scope of mental health nursing
- Describe the concept of normal & abnormal behaviour

Content:

Introduction

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

Teaching, Learning & Activities

- Lecture
- Discussion

Assessment methods

- Objective type
- Short answer
- Assessment of the field visit reports

Unit – II

Time: 5 Hrs

Learning Objectives:

- Define the various terms used in mental health Nursing
- 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

Content:**Principles and Concepts of Mental Health Nursing**

- Definition: Mental health nursing and terminology used
- Classification of mental disorders : ICD
- Review of personality development, defense mechanisms
- Maladaptive behaviour of individuals and groups: stress, crisis and disasters
- Etiology: Bio-psycho-social factors
- Psychopathology of mental disorders: Review of structure and functions of brain, limbic system and abnormal Neuro transmission
- Principles of Mental health nursing practice
- Conceptual models and the role of nurse:
 - Existential Model
 - Psycho-analytical models
 - Behavioural models
 - Inter personal model

Teaching, Learning & Activities

- Lecture discussion
- Explain using charts
- Review of personality development

Assessment methods

- Essay type
- Short answers
- Objective type

Unit – III**Time: 8 Hrs****Learning Objectives:**

- Describe nature, purpose and process of assessment of mental health status

Content:**Assessment of mental health status**

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

Teaching, Learning & Activities

- Lecture discussion
- Demonstration
- Practice session
- Clinical practice

Assessment methods

- Short answers
- Objective type
- Assessment of skills with check list

Unit – IV

Time: 6 Hrs

Learning Objectives:

- Identify therapeutic communication techniques
- Describe therapeutic relationship
- Describe therapeutic impasse and its intervention

Content:

Therapeutic communication and nurse-patient relationship

Therapeutic communication:

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

Teaching, Learning & Activities

- Lecture discussion
- Demonstration
- Role play
- Process recording

Assessment methods

- Short answers
- Objective type

Unit – V

Time: 14 Hrs

Learning Objectives:

- Explain treatment modalities and therapies used in mental disorders and role of the nurse

Content:

Treatment modalities and therapies used in mental disorders

Psycho pharmacology

Psychological therapies

Therapeutic community, psycho analytical, cognitive and supportive, family group, 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

Teaching, Learning & Activities

- Lecture discussion
- Demonstration
- Group work
- Practice session
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Objective type

Unit – VI

Time: 05 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders

Content:

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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – VII

Time: 05 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with mood disorders

Content:

Nursing management of patients with mood disorders

- 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
- Follow-up and home care and rehabilitation

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – VIII

Time: 08 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatization disorders

Content:

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

- 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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – IX

Time: 05 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders

Content:

Nursing management of patients with substance use disorders

- Commonly used psychotropic substance : Classification, forms, routes, action, intoxication and withdrawal
- Etiology of dependence : Tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis,
- Nursing assessment – History, Physical, 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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – X

Time: 04 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with Personality, Sexual and Eating disorders

Content:

Nursing management of patients with Personality, Sexual and Eating disorders

- Classification of disorders*Etiology, psycho-pathology, 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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

Essay type

Short answers

Assessment of patient management problems

Unit – XI

Time: 06 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical, Manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency

Content:

Nursing management of childhood and adolescent disorders including mental deficiency

- Classification of disorders
- Etiology, psycho-pathology, 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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – XII

Time: 05 Hrs

Learning Objectives:

Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with organic brain disorders

Content:

Nursing management of patients with organic brain disorders

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

Teaching, Learning & Activities

- Lecture discussion
- Case Discussion
- Case Presentation
- Clinical practice

Assessment methods

- Essay type
- Short answers
- Assessment of patient management problems

Unit – XIII

Time: 06 Hrs

Learning Objectives:

- Identify psychiatric emergencies and carryout crisis intervention

Content:

Psychiatric emergencies and crisis intervention

- 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

Teaching, Learning & Activities

- Lecture discussion
- Demonstration
- Practice session
- Clinical practice

Assessment methods

- Short answers
- Objective type

Unit – XIII

Time: 04 Hrs

Learning Objectives:

- Describe the model of preventive psychiatry
- Describe community mental health services and role of the nurse

Content:

Community Mental Health Nursing

- 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.,

Teaching, Learning & Activities

- Lecture discussion
- Clinical/field practice
- Field visits to mental health service agencies

Assessment methods

- Short answers
- Objective type
- Assessment of the field visit reports

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MENTAL HEALTH NURSING
Practical

Placement: SIXTH SEMESTER

Time: Practical — 365 Hrs, (9 weeks)

Areas: Psychiatric OPD

Duration (in week): 1

Objectives:

- Assess patients with mental health problems
- Observe and assist in therapies
- Counsel and educate patient, and families

Skills:

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

Assignments:

- History taking and Mental status examination -2
- Health education - I
- Observation report of OPD

Assessment Method:

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of health education
- Assessment of observation report
- Completion of activity record.

Areas: Child Guidance Clinic

Duration (in week): 1

Objectives:

- Assessment of children with various mental health problems.
- Counsel and educate children, families and significant others.

Skills:

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

Assignments:

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

Assessment Method:

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of the observation report

Areas: Inpatient ward

Duration (in week): 6

Objectives:

- Assess patients with mental health problems
- To provide nursing care for patients with various mental health problems
- Assist in various therapies
- Counsel and educate patients, families and significant others

Skills:

- History taking
- perform mental status examination (MSE)
- Perform neurological examination
- Assist in psychometric assessment
- Record therapeutic communication
- Administer medications
- Assist in Electro convulsive Therapy (ECT)
- participate in all therapies
- prepare patients for Activities of Daily living (ADL)
- Conduct admission and discharge counseling
- Counsel and teach patients and families

Assignments:

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

Assessment Method:

- Assess performance with rating scale
- Assess each skill with checklist
- Evaluation of the case study, Care plan, clinical presentation, process recording
- Completion of activity record.

Areas: Community Psychiatry

Duration (in week): 1

Objectives:

- To identify patients with various mental disorders
- To motivate patients for early treatment and follow up
- To assist in follow up clinic
- Counsel and educate patient, family and community

Skills:

- Conduct case work
- Identify individuals with mental health problems
- Counsel and Teach family members, patients and community

Assignments:

- Case work -1
- Observation report on field visits

Assessment Method:

- Assess performance with rating scale
- Evaluation of case work and observation report
- Completion of activity record

Areas: Psychiatry ward

Duration (in week): 2

Objectives:

- Provide comprehensive care to patients with mental health problems.

Skills:

- Integrated Practice

Assessment Method:

- Assess clinical performance with rating scale

CHILD HEALTH NURSING

Placement: FOURTH YEAR

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 - I

Time 15(Hrs)

Learning Objective:

- Explain the modern concept of child care and principles of child health nursing.
- Describe national policy programmes and legislation in relation to child health and welfare
- List major causes of death during infancy, early and late childhood
- Describe the major functions and role of the paediatric nurse in caring for a hospitalized child.
- Describe the principles of child health nursing.

Content:

Introduction:

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

Teaching Learning Activities: Lecture Discussion

Demonstration common paediatric procedures

Assessment Methods:

- Short answers
- Objective type
- Assessment of skills with checklist

Unit - II

Time 20(Hrs)

Learning Objective:

- Describe the normal growth & development of children at different ages
- Identify the needs of children at different ages & provide parental guidance
- Identify the nutritional needs of children at different ages and ways of meeting the needs
- Appreciate the role of play for normal & sick children.
- Appreciate the preventive measures and strategies for children.

Content:

- The healthy child
- Principles of growth & development
- Factors affecting growth & development
- Growth and development from birth to adolescence.
- The needs of normal children through the stages of developmental and parental guidance
- Nutritional needs of children & infants: breast feeding, exclusive breast feeding, supplementary/artificial feeding and weaning
- Baby friendly hospital concept
- Accidents: causes and prevention
- Value of play and selection of play material
- Preventive immunization, immunization program and cold chain
- preventive paediatrics
- Care of under five & under five clinics/ well baby clinics

Teaching Learning Activities:

- Lecture Discussion
- Developmental study of infants and children
- Observation study of normal and sick child
- Field visit to Anganwadi, child guidance clinic
- Film show on breast feeding
- Clinical practice/field

Assessment Methods:

- Short answers
- Objective type
- Assessment of visits and development al study reports

Unit - III**Time 15(Hrs)****Learning Objective:**

- Provide care to normal & high risk neonates
- Perform neonatal resuscitation.
- Recognize and manage Common neonatal problems

Content:

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

Unit - IV**Time 10(Hrs)****Content:** Integrated management of neonatal and childhood illness (IMNCI)**Unit - V****Time: 20(Hrs)****Learning Objective:** -Provide nursing care in common childhood diseases-Identify measures to prevent common childhood diseases including immunization.**Content:**

- 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

Teaching Learning Activities

- Lecture Discussion
- Demonstration
- Practice session
- Clinical practice

Assessment Methods:

- Short answers
- Objective type
- Assessment of skills with checklist

Unit - VI**Time: 10 (Hrs)****Learning Objective:**

- Manage the child with behavioral and social problems.
- Identify the social and welfare services for challenged children.

Content:

- 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

Teaching Learning Activities:

- Lecture Discussion
- Field visits to child guidance clinics, school for mentally and physically, socially challenged

Assessment Methods:

- Short answers
- Objective type
- Assessment of field reports

Bibliography**Textbook:**

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

Suggested Reference:

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3. Parthasarathy, IAP Textbook of Paediatrics, Jaypee Brothers Medical Publishers, New Delhi.
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8. Ghai (OP), Essential Paediatrics.
9. Fox (JA), Primary Health Care of Infants, Children & Adolescents, Mosby.

CHILD HEALTH NURSING

Practical

Placement: Fourth Year

Time:—420 hours (9weeks)

Areas: Paediatric Medicine Ward

Duration (in week): 3

Objectives:

- Provide nursing care to children with various medical disorders
- Counsel and educate parents

Skills: -

- Taking paediatric History
- Physical examination and assessment of children
- Administer of oral, I/M & IV medicine! fluids
- Calculation of fluid requirements
- prepare different strengths of I.V fluids
- Apply restraints
- Administer O₂ inhalation by different methods
- Give baby bath
- Feed children by Katori spoon, etc.
- collect specimens for common investigations
- Assist with comm. Diagnostic procedures
- Teach mothers! parents
- Malnutrition, Oral rehydration therapy.
- Feeding & weaning
- Immunization schedule
- Play therapy Specific Disease conditions

Assignments:

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

Assessment Method:

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

Areas: Paediatric Surgery Ward

Duration (in week): 3

Objectives:

- Recognise different pediatric surgical conditions/malformations
- Provide pre and post operative care to children with common paediatric surgical conditions/malformation
- Counsel and educate parents

Skills:

- Calculate, prepare and administer I/V fluids
- Do bowel wash
- Care for ostomie Colostomy irrigation
- Ureterostomy

- Gastrostomy
- Urinary catheterization and drainage
- Feeding
- Nas-gastric
- Gastrostomy
- Jejunostomy
- Care of surgical wounds Dressing
- Suture removal

Assignments:

- Give care to three assigned paediatric surgical patients
- Nursing care plan-I
- Case study/presentation

Assessment Method:

- Assess clinical Performance with rating scale
- Assess each skill with checklist
- OSCE/OSP E
- Evaluation of case study/presentation
- Completion of activity record.

Areas: Paediatric OPD/Immunization room

Duration (in week): 1

Objectives:

- Perform assessment of children: Health, developmental and Anthropometric
- Perform Immunization
- Give health Education/Nutritional Education
- **Skills:**
- Assessment of children
- Health assessment
- Developmental assessment
- Anthropometric assessment
- Immunization
- Health/ Nutritional Education

Assignments:

- Developmental study-I

Assessment Method:

- Assess clinical performance with rating scale
- Completion of activity record

Areas: Paediatric Medicine and Surgery ICU

Duration (in week): 1+1

Objectives: -Provide nursing care to critically ill children

Skills:

- Care of a baby in incubator/warmer
- Care of a child on ventilator
- Endotracheal suction
- Chest physiotherapy
- Administer fluids with infusion pump

- Total parenteral nutrition
- Phototherapy
- Monitoring of babies
- Cardio pulmonary resuscitation

Assignments:

- Nursing care Plan-I
- Observation report-I

Assessment Method:

- Assess clinical performance with rating scale
- Complication of activity record
- Evaluation of observation report

Areas:

- Paediatric Medicine Ward/ICU

Duration (in week): 1

Objectives:

- Provide comprehensive care to children with medical conditions

Skills:

- Integrated practice

Assignments:

Assess clinical performance with rating scale

Areas:

Paediatric Surgery Ward/ICU

Duration (in week): 1

Objectives:

- Provide comprehensive care to children with surgical conditions

Skills:

- Integrated practice

Assignments:

- Assess clinical performance with rating scale

Areas: NICU

Objectives:

- Provide intensive care to neonates

Skill:

- Integrated practice

Assignments:

- Assess clinical performance with rating scale

MANAGEMENT OF NURSING SERVICES AND EDUCATION

Placement: FOURTH YEAR

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 – I

Time - 4 Hrs.

Learning Objectives:

- Explain the principles and functions of management

Content:

- Introduction to management in nursing
- Definition, concepts and theories
- Functions of management
- principles of management
- Role of nurse as a manager

Teaching Learning Activities:

- Lecture Discussion
- Explain using organization chart

Assessment Methods:

- Short answers

Unit – II

Time – 5 Hrs.

Learning Objectives:

- Describe the elements and process of management

Content:

- Management Process
- planning: mission Philosophy, objectives operational plan
- Staffing Philosophy, Staffing study, Norms, Activities, Patient classification systems, Scheduling
- Human resource management: recruiting, selecting, deployment, retaining promoting, superannuation etc.,
- Budgeting: Concept, principles, types, cost benefit analysis, audit
- Material management: equipment and supplies
- Directing process (Leading *controlling: Quality management program
- Evaluation Review Technique (PERT), bench marking, Activity
- Plan (Gantt, Chart)

Teaching Learning Activities:

- Lecture Discussion
- Simulated exercises
- Case studies

Assessment Methods:

- Essay Type
- Short answers

Unit – III

Time – 8 Hrs. (Theory)

20 Hrs. (Practical)

Learning Objectives:

- Describe the management of nursing services in the hospital and community.

Content:

- Management of Nursing Services in the Hospitals and Community planning:
- Hospital and patient care units including ward management
- Emergency and disaster management
- Human resource management:
- Recruiting, selecting, deployment, retaining, promoting, superannuation etc.,
- Categories of nursing personnel including job description of all levels
- Patient/population classification systems
- Patients/population assignment and nursing care responsibilities
- Staff development and welfare
- Budgeting: Proposal, projecting requirements for staff, equipments and supplies for
- Hospital and patient care units
- Emergency and disaster management
- Material management:
- Procurement, inventory control, auditing and maintenance in
- Hospital and patient care units
- Emergency and disaster management
- Directing and leading:
- Delegation, participatory management
- Assignments, rotations, delegations
- Supervision and guidance
- Implement standards, policies, procedures and practices
- Staff development and welfare
- Maintenance of discipline
- controlling / evaluation:
- Nursing rounds / Visits, Nursing protocols, Manuals
- Quality assurance model, documentation
- Record and reports Performance appraisal

Teaching Learning Activities:

- Lecture Discussion
- Demonstration
- Simulated exercises
- Case studies
- Supervised practice in ward -writing indents, preparing duty roster, ward supervision
- Assignment on duties and responsibilities of ward sister
- Writing report

Assessment Methods:

- Essay type
- Short answers
- Assessment of problem solving exercises
- Assessment of the assignments
- Performance evaluation by ward sister with rating scale

Unit – IV**Time – 5 Hrs. (Theory)****Learning Objectives:**

- Describe the concepts, theories and techniques of organizational behaviour and human relations.

Content:

- Organizational behaviour and human relations
- Concepts and theories of organizational behaviours
- Review of channels of communication
- Leadership styles
- Review of motivation:
- Concepts and Theories
- Group dynamics
- Techniques of
- Communication and
- Inter personal relationships
- Human relations
- Public relations in context of nursing
- Relations with professional associations and employee unions and collective bargaining

Teaching Learning Activities:

- Lecture Discussion
- Role plays
- Group games
- Self Assessment
- Case discussion
- practice session

Assessment Methods:

- Essay type
- Short answers
- Assessment of problem solving

Unit – V**Time – 5 Hrs. (Theory)****5 Hrs. (Practical)****Learning Objectives:**

- Participate in planning and organizing in-service education program

Content:

- In service education
- Nature and scope of in service education program
- organization of in service education
- principles of adult learning

- planning for in service education program, techniques, methods and evaluation of staff education program
- Preparation of report

Teaching Learning Activities:

- Lecture discussion
- Plan and conduct an educational session for in service nursing personnel

Assessment Methods:

- Short answer
- Objective type
- Assess the planning and conduct of the educational session

Unit – VI

Time – 10 Hrs. (Theory)

Learning Objectives:

- Describe management of nursing educational institutions

Content:

- Management of Nursing Educational Institutions
- 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
- Clinical facilities
- Transport facilities
- Institutional records and reports — administrative, faculty, staff and students

Teaching Learning Activities:

- Lecture Discussion
- Role plays

- Counselling sessions
- Group exercises

Assessment Methods:

- Essay type
- Short answers

Unit – VII

Time – 10 Hrs. (Theory)

Learning Objectives:

- Describe ethical and legal responsibilities of a professional nurse
- Explain the nursing practice standards

Content:

- Nursing as a Profession
- Nursing as a Profession
- Philosophy: Nursing practice
- Aims and objectives
- Characteristics of a professional nurse
- Regulatory bodies: INC, SNC Acts — Constitution, Functions
- Current trends and issues in Nursing professional ethics
- Code of ethics: INC, ICN
- Code of professional conduct: INC, ICN
- Practice standards for Nursing: INC
- Consumer protection Act
- Legal aspect in Nursing
- Legal terms related to practice: Registration and Licensing
- Laws related to Nursing practice; Breach and Penalties
- Malpractice and Negligence

Teaching Learning Activities:

- Lecture Discussion
- Case discussion
- panel discussion
- Role plays
- Critical incidents
- Visit to INC/ SNRCs

Assessment Methods:

- Short answers
- Assessment of critical incidents

Unit – VIII

Time – 3 Hrs. (Theory)

Learning Objectives:

- Explain the various opportunities for professional advancement

Content:

- Professional advancements:
- Continuing education
- Career Opportunities
- Collective bargaining
- Membership with
- Professional organizations:

- National and International
- Participation in research activities
- Publications: Journals, Newspapers, etc.,

Teaching Learning Activities:

- Lecture discussion
- Review/Presentation of published articles
- Group work on maintenance of bulletin board

Assessment Methods:

- Short answers

Bibliography:

Textbook:

1. Basavanthappa (BT), Nursing Administration, Jaypee Brother, New Delhi, 2002.

Reference:

1. Stanhope(M), Public Health Nursing: Population-centered Health Care in the Community, Elsevier, 7th Edition, 2008.

2. T.N.A.I., A Community Nursing Manual, New Gian Offset Press, New Delhi, 1989.

COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: FOURTH YEAR

TimeTheory-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 – I

Time – 5 Hrs. (Theory)

Learning Objectives:

- Describe the communication process
- Identify techniques of effective communication

Content:

- Review of Communication Process
- Process: elements and chance
- Facilitators
- Barriers and methods of overcoming
- Techniques

Teaching Learning Activities:

- Lecture Discussion
- Role plays
- Exercises with audio/video tapes

Assessment Method:

- Respond critical incidents
- Short answers
- Objective type

Unit – II

Time – 5 Hrs. (Theory)

Learning Objective:

- Establish effective inter- personal relations the patients, families & co-workers.

Content:

Interpersonal relations

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

Teaching Learning Activities:

- Lecture Discussion
- Role plays
- Exercises with audio/video tapes
- Process recording

Assessment Methods:

- Short answers, Objective type

Unit – III

Time – 5 Hrs. (Theory)

Learning Objectives:

- Develop effective human relations in context of nursing

Content:

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

Teaching Learning Activities:

- Lecture Discussion
- Sociometry
- Group games
- Psychometric exercises followed by discussion

Assessment Methods:

- Short answers
- Objective type
- Respond to test bas on critical incidents

Unit – IV

Time – 10 Hrs. (Theory)

5 Hrs. (Practical)

Learning Objectives: -Develop basic skills of counseling and guidance

Content:

- Guidance & counseling
- Definition
- Purpose, scope and nee
- Basic principles
- Organization of counseling services
- Types of counseling approaches
- Role and presentation of counselor
- Issues for counseling in Nursing: studies and practitioners
- Counselling process-steps & technique stools of counselor
- Managing disciplinary problems
- Management of crisis & referral

Teaching Learning Activities:

- Lecture Discussion
- Role plays on counseling in different situations followed by discussion.

Assessment Methods:

- Short answers
- Objective type
- Assess performance in role play situations

Unit – V

Time – 5 Hrs. (Theory)

Learning Objectives:

- Describe the philosophy & principles of education.
- Explain the teaching learning process

Content:

Principles of education & teaching learning process

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

Teaching Learning Activities:

- Lecture Discussion
- Prepare lesson plan
- Micro teaching
- Exercise on writing objectives

Assessment Methods:

- Short answers
- Objective type
- Assess lesson plans & teaching situations

Unit – VI

Time – 10 Hrs. (Theory)

10 Hrs. (Practical)

Learning Objectives:

- Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings.

Content:

Methods of teaching

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

Teaching Learning Activities:

- Lecture Discussion
- Conduct 5 teaching sessions using different methods & media

Assessment Methods:

- Short answers
- Objective type
- Assess teaching situations

Unit – VII

Time – 10 Hrs. (Theory)

8 Hrs. (Practical)

Learning Objectives:

- Prepare and use different types of educational media effectively

Content:

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

Teaching Learning Activities:

Lecture Discussion

- Demonstration
- Prepare different teaching aids- projected & non projected

Assessment Methods:

- Short answers
- Objective type
- Assess teaching aids prepared

Unit – VIII

Time – 5 Hrs. (Theory)

7 Hrs. (Practical)

Learning Objectives:

- Prepare different types of questions for assessment of knowledge, skills and attitudes.

Content:

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

Teaching Learning Activities:

- Lecture Discussion
- Exercise on writing different types of assessment tools

Assessment Methods:

- Short answers,
- Objective type
- Assess strategies used in practice teaching sessions and exercise Sessions

Unit – IX**Time – 5 Hrs. (Theory)****Learning Objectives:**

- Teaching individuals, group and communities about health with their active participation.

Content:

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

Teaching Learning Activities:

- Lecture Discussion
- Plan and conduct health education sessions for individuals, group & communities

Assessment Methods:

- 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, 3.0. Billioet Co.
W.H.O. Curriculum Guide for the Schools of Nursing in India, Delhi WHO.

Reference:

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

MIDWIFERY AND OBSTETRICAL NURSING

Placement: FOURTH YEAR

Time -Theory-90 hrs 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 – I

Time – 3 Hrs. (Theory)

Learning Objectives:

Recognise the trends and issues in midwifery and obstetrical nursing

Content:

- 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

Teaching Learning Activities:

- Lecture, Discussion
- Explain using charts and graphs

Assessment Methods:

- Short answers
- Objective type

Unit – II

Time – 8 Hrs. (Theory)

Learning Objectives:

Describe the anatomy and physiology of female reproductive system

Content:

- 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, musculature-blood supply, nerves, lymphatics, pelvic cellular tissue,
- Pelvic peritoneum.
- Physiology of menstrual cycle
- Human sexuality
- Foetal development
- Conception

Review of:

Fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term-functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord Foetal circulation, foetal skull, bones, sutures and measurements.

Review of genetics

Teaching Learning Activities:

- Lecture, Discussion
- Review with charts and models

Assessment Method:

- Short answers
- Objective type

Unit – III

Time – 8 Hrs. (Theory)

Learning Objectives:

Describe the diagnosis and management of women during antenatal period.

Content:

- Assessment and management of pregnancy(ante-natal)
- Normal pregnancy
- Physiological changes during pregnancy
- Reproductive system
- Cardio vascular system
- Respiratory system
- Urinary system
- Gastro intestinal system
- Metabolic changes
- Skeletal changes
- Endocrine system
- Psychological changes
- Discomforts of pregnancy
- Diagnosis of pregnancy
- Signs
- Differential diagnosis
- Confirmatory tests
- Ante-natal care
- Objectives
- assessment
- History and physical examination
- Antenatal examination
- Signs of previous child-birth
- Relationship of foetus to uterus and
- Pelvis lie, attitude, presentation, position.
- Per vaginal Examination
- Screening and assessment for high risk, Risk approach
- History and physical examination
- Modalities of diagnosis, invasive and 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

Teaching Learning Activities:

- Lecture, Discussion
- Demonstration
- Case discussion/Presentation

Unit – IV

Time – 12 Hrs. (Theory)

Learning Objectives:

- Describe the physiology and stages of labour.
- Describe the management of women during intranatal period.

Content:

- 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
- Bonding
- Initiate feeding
- Screening and transportation of the neonate

Third stage

- Signs and symptoms; normal and abnormal
- Duration
- Method of placental expulsion
- Management; principles and techniques
- Examination of the placenta
- Examination of perineum Maintaining records, and reports Forth stage

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Case discussion/presentation
- Simulated practice
- Supervised clinical practice

Assessment Methods:

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

Unit – V

Time – 5 Hrs. (Theory)

Learning Objectives:

- Describe the physiology of purperium.
- Description the management of women during postnatal period.

Content:

- Assessment and management of women during postnatal period
- Normal purperium physiology Duration
- Postnatal assessment and management
- Promoting physical and emotional well-being
- Lactation management
- Immunization
- Family dynamics after child-birth
- Family welfare services; methods, counseling
- Follow-up
- Records and reports

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Health talk
- Practice Session
- Supervised Clinical practice

Assessment Methods:

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

Unit – VI

Time – 10 Hrs. (Theory)

Learning Objectives:

- Describe the assessment and management of normal neonate

Content:

- Assessment and management of normal neonates
- Normal Neonate; Physiological adaptation, Initial and daily assessment
Essential newborn care; thermal control Breast feeding, prevention of infections
- Immunization
- minor disorders of newborn and its management
- Levels of neonatal care (level I,II,&III)
- At primary, secondary and tertiary levels
- Maintenance of reports and records.

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Practice Session
- Supervised Clinical practice

Assessment Methods:

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

Unit – VII

Time – 10 Hrs. (Theory)

Learning Objectives:

- Describe the Identification and management of women with high risk pregnancy.

Content:

- High-risk pregnancy-assessment and management
- Screening and assessment
- Ultrasonics, cardiotomography, NST, CST, non-invasive and invasive
- Newer modalities of diagnosis high- risk approach
- Levels of care; primary, secondary and tertiary levels
- Disorders of pregnancy
- Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic
- Pregnancy, vesicular mole,
- Antepartum haemorrhage Uterine abnormality and displacement Diseases complicating pregnancy
- Medical and surgical conditions
- Infections, RTI (STD), UTI, HIV, TORCH
- Gynaecological diseases complicating pregnancy
- Pregnancy induced hypertension and diabetes, hydramnios
- Rh incompatibility
- Mental disorders
- Adolescent pregnancy, Elderly prime and grand multipara

- Multiple pregnancy
- Abnormalities of placenta and cord
- Intra-uterine growth-retardation
- Nursing management of mothers with high-risk pregnancy
- Maintenance of records and report

Teaching Learning Activities:

- Lecture discussion
- Demonstration using video films, scan reports, partograph etc
- Case discussion/presentation
- Health talk

Assessment Methods:

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

Unit – VIII

Time – 10 Hrs. (Theory)

Learning Objectives:

- Describe management of abnormal labour and .Obstetrical emergencies

Content:

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

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Case discussion/presentation
- Health talk
- Practice Session
- Supervised Clinical practice

Assessment Methods:

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

Unit – IX

Time – 4 Hrs. (Theory)

Learning Objectives:

- Describe management of postnatal complications.

Content:

- Abnormalities during postnatal Periods
- Assessment and management of women with postnatal complications
- Puerperal infections, UTI, thrombo- Embolic disorders, post-partum haemorrhage,
- Eclampsia and subinvolutions
- Psychological complications:
- Post partum blues
- Post partum depression Post partum psychosis

Teaching Learning Activities:

- Demonstration
- Case discussion/presentation
- Supervised Clinical practice

Assessment Methods:

- Objective type
- Assessment of skills with check list
- Assessment of patient management problems

Unit – X

Time – 10 Hrs. (Theory)

Learning Objectives:

- Identify the risk neonates and their nursing management

Content:

- 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

Teaching Learning Activities:

- Lecture discussion
- Demonstration
- Practice Session
- Case discussion/presentation
- Supervised Clinical practice

Assessment Methods:

- Essay type, Short answers
- Objective type

- Assessment of skills with check list
- Assessment of patient management problems

Unit – XI

Time – 4 Hrs. (Theory)

Learning Objectives:

- Describe indication dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers.

Content:

- 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

Teaching Learning Activities:

- Lecture discussion, Drug book, Drug presentation

Assessment Methods:

- Short answers,
- Objective type

Unit – XII

Time – 10 Hrs. (Theory)

Learning Objectives:

- Appreciate the importance of family welfare programme.
- Describe the methods of contraception and role of nurse in family welfare programme.

Content:

- 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 levels
- Methods of contraception; spacing, temporary and permanent, Emergency contraception
- Infertility and its management
- Counselling for family welfare
- Latest research in contraception
- Maintenance of vital statistics
- Role of national international and voluntary organizations
- Role of nurse in family welfare programme
- Training/supervision/collaboration with other functionaries in community like
- ANMs, LHVs, Anganwadi workers, TBAs (Traditional birth attendant-Dai)

Teaching Learning Activities:

- Lecture discussion, Demonstration, Practice Session, Supervised practice, Group project, Counselling session, Field visit.

Assessment Methods:

- Essay type, Short answers, Objective type, Assessment of skills with check-list, project and field visits reports.

Bibliography:

Textbook:

1. Fraser (DM), Myles Textbook of Midwives, Churchill Livingstone, 14th Edition, 2003

Suggested References:

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

MIDWIFERY AND OBSTETRICAL NURSING

Practical

Placement: FOURTH YEAR

Time: Practical 600 Hours

Areas: Antenatal clinics/OPD

Duration (in weeks): 2

Objectives:

- Assessment of pregnant women

Skills:

- 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

Assignments:

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

Assessment Methods:

- Verification of findings
- Antenatal examinations
- Complication of casebook recordings

Areas: Labour Room/OT

Duration (in weeks): 4

Objectives:

- 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

Skills:

- Assessment of women in labour
- Per-vaginal 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

Assignments:

- Conduct normal deliveries-20
- Per-vaginal 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
- Case book recordings

Assessment Methods:

- Assessment of clinical performance with rating scale
- Assessment of each skill with checklists
- Complication of case book recordings

Areas: Postnatal Ward

Duration (in weeks): 4

Objectives:

- Provide nursing care to postnatal mother and baby
- Counsel and teach mother and family for parent hood.

Skills:

- Examination and assessment of mother and Baby
- Identification of deviations
- Care of postnatal mother and Baby
- Perineal care
- Lactation management
- Breast feeding
- Baby bath
- Immunization
- Teaching postnatal mother: .Mother craft
- Postnatal care & Exercises
- Immunization

Assignments:

- Give care to postnatal mothers-20
- Health talks-1
- Case study-1
- Case presentation-1
- Case book recordings

Assessment Methods:

- Assessment of clinical performance
- Assessment of each skill with checklists
- Completion of case book recording
- Evaluation of case study and presentation and health education sessions

Areas: Newborn Nursery

Duration (in weeks): 2

Objectives: -Provide nursing care to newborn at risk

Skills:

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

Assignments:

- Case study-1
- Observation study-1

Assessment Methods:

- Assessment of clinical performance
- Assessment of each skill with checklists
- Evaluation of and observation study

Areas:

Family Planning Clinic

Duration (in weeks):

Rotation from postnatal ward 1 wk

Objectives:

Counsel for and provide family welfare services

Skills:

- Counselling technique
- Insertion of IUD
- Teaching on use of family planning methods
- Arrange for and Assist with family planning operations
- Maintenance of records and reports

Assignments:

- IUD insertion-5
- Observation study-1
- Counselling- 2
- Simulation exercise on recording and reporting-I

Assessment Methods:

- Assessment of each skill with checklists
- Evaluation of and observation study

NURSING RESEARCH AND STATISTICS

Placement: FOURTH 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 – I

Time - 4 Hrs.

Learning Objectives:

- Describe the concept of research, terms, need and areas of research in nursing.
- Explain the steps of research process.

Content:

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

Teaching Learning Activities:

- Lecture Discussion.
- Narrate steps of research process followed from examples of published studies.

Assessment Methods:

- Short answer
- Objective type

Unit – II

Time - 3 Hrs.

Learning Objectives:

- Identify and state the research problem and objectives

Content:

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

Teaching Learning Activities:

- Lecture Discussion.
- Exercise on writing statement of problem and objectives.

Assessment Methods:

Short answer, Objective type.

Unit – III

Time - 3 Hrs.

Learning Objectives: Review the related literature

Content:

- Review of Literature
- Location
- Sources
- On line search; CTNHAL, COCHRANE etc
- Purposes
- Method of review

Teaching Learning Activities:

- Lecture Discussion
- Exercise on reviewing one research report article for a selected research problem
- Prepare annotated bibliography

Assessment Methods:

- Short answer
- Objective type

Unit – IV

Time - 4 Hrs.

Learning Objectives:

- Describe the research approaches and designs

Content:

- Research approaches and designs
- Historical, Survey and experimental
- Qualitative and quantitative designs

Teaching Learning Activities:

- Lecture Discussion
- Explain types of research approaches used from examples of
- Published and unpublished research studies with rationale

Assessment Methods:

- Short answer
- Objective type

Unit – V

Time – 8 Hrs.

Learning Objectives:

- Explain the sampling and data collection

Content:

- Sampling and data collection
- Definition of population Sample, sampling criteria, factors influencing sampling process, types of sampling techniques.
- Data-why, what from whom, when and where to collect
- Data collection methods and instruments:
- Methods of data collection
- Questioning, interviewing .Observations, record analysis and measurement
- Pilot study
- Data collection procedure

Teaching Learning Activities:

- Lecture Discussion
- Reading assignment on examples of data collection tools
- Preparation of sample data collection tool
- Conduct group research project

Assessment Methods:

- Short answer
- Objective type

Unit – VI**Time - 4 Hrs.****Learning Objectives:**

- Analyze, interpret and summarize the research data

Content:

- Analysis of data:
- Complication, Tabulation, Summarization, presentation, interpretation of data

Teaching Learning Activities:

- Lecture Discussion
- Preparation of sample tables

Assessment Methods:

- Short answer
- Objective type

Unit – VII**Time - 15 Hrs.****Learning Objectives:**

- Explain the use of statistics, scales of measurement and graphical presentation of data.
- Describe the measures of central tendency and variability and methods of correlation.

Content:

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

Teaching Learning Activities:

- Lecture Discussion
- Practice on graphical presentations
- Practice on computation of measures of central tendency, variability and correlation

Assessment Methods:

- Short answer
- Objective type

Unit – VIII

Time – 4 Hrs.

Learning Objectives:

- Communicate and utilize the research findings

Content:

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

Teaching Learning Activities:

- Lecture Discussion.
- Read/presentation of sample published/unpublished research
- Report
- Writing group research project.

Assessment Methods:

- Short answer
- Objective type
- Oral presentation
- Assessment of group research project

Bibliography:

Textbook:

1. Mahajan (BK), Methods in Biostatistics, Jaypee, 6th Edition. Suggested Reference:
1. Rao (S), Introduction to Biostatistics & Research methods, Riachard, 4th Edition.
2. Rao (V), A manual of Statistical and Anthropology, Jaypee, 2 Edition.
3. Norman, Biostatistics, B.C Decker, 2' Edition.
4. Rao, Applied Statistics in Health Sciences, Jaypee.
5. Neg (KS), Biostatistics, AITBS.

PATTERN OF QUESTION PAPER FOR B. Sc. 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.

PATTERN OF QUESTION PAPER FOR B. Sc. NURSING COURSE
FOR THEORY EXAM

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 question: (Answer any One question only) (1 x 15 = 15)
1. Name the organs present in urinary system. Mention the internal and external features of kidney. Draw parts of nephron.
 2. Name the endocrine glands. Describe the parts, relations blood supply and clinical significance of suprarenal glands.
- II. (Answer any Two questions only) (2 x 6 = 12)
1. Describe the gross anatomy and blood supply of stomach.
 2. Origin, insertion, nerve supply and action of Deltoid muscle.
 3. Explain Blood supply of Heart.
- III. Short Notes: (Answer any Two questions only) (2 x 5 = 10)
1. Sterno mastoid muscle
 2. Coronary arteries
 3. Thoracic duct

SECTION – B (Physiology) (38 Marks)

- I. Essay question: (Answer any One question only) (1 x 15 = 15)
1. Classify leucocytes and give their normal values. Briefly describe the functions of different types of leucocytes.
 2. Define arterial blood pressure. Give its values in a normal adult subject. Describe in brief how arterial blood pressure is regulated.
- II. (Answer any Two questions only) (7 + 6 = 13)
1. Describe the functions of skin.
 2. Describe the different stages of deglutition.
 3. Explain Hypoxia.
- III. Short Notes: (Answer any Two questions only) (2 x 5 = 10)
1. Pacemaker of the heart
 2. Neuromuscular junction
 3. Glomerular filtration rate

PATTERN OF QUESTION PAPER FOR B. Sc. NURSING COURSE
FOR THEORY EXAM

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) (45 Marks)

- I. Essay type: (Answer any Two questions only) (2 x 10 = 20)
1. Outline the methods of preserving fruits and foods.
 2. What are the factors affecting nutrition of the people? Explain Nutritional feeding programmes in our country.
 3. What is the Importance of nutrition in nursing? Why Nutritional requirements during infancy.
- II. Short notes (Answer any Five questions only) (5 x 5 = 25)
1. Balanced Diet
 2. Sources of Iron
 3. Dietary fibre
 4. Protein calorie malnutrition
 5. Role of Nutrition in maintaining health.
 6. Nutrition Education and role of Nurse.
 7. Sources of Minerals and Vitamins.

SECTION – B (Bio Chemistry) (30 Marks)

- I. Essay type: (Answer any One question only) (1 x 10 = 10)
1. What is the normal blood glucose level? Explain the regulation of blood glucose. List of the Urinary findings in Diabetic ketoacidosis.
 2. Discuss the food sources, functions and deficiency manifestations of Vitamin-A.
- II. (Answer any Four questions only) (4 x 5 = 20)
1. Beri Beri.
 2. Liver function tests in Obstructive Jaundice.
 3. Isoenzymes.
 4. Glomerular filtrate rate.
 5. Lab. Diagnosis of Renal failure.

PATTERN OF QUESTION PAPER FOR B. Sc. NURSING COURSE
FOR THEORY EXAM

Question Paper for Pharmacology, 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 (1 x 13 = 13)
1. Name five anticancer agents. Explain the common adverse effects of anticancer agents. Explain the role of nurse in administering cancer chemotherapy.
 2. Enumerate the various routes of drug administration. List the advantages and disadvantages of any four routes.
- II. Short notes (Answer any Five questions only) (5 x 5 = 25)
1. Classify antipsychotics. What are the advantages of a typical antipsychotics?
 2. Name the various classes of drugs (with one example for each) used in the treatment of congestive cardiac failure.
 3. List the instructions you will give to the mother who has to administer ORS to her child.
 4. Name four classes of antihypertensive drugs with two examples for each.
 5. Explain the uses of loop diuretics.
 6. Write briefly on the responsibilities of a nurse while handling opioids.
 7. List the instructions you will give to a diabetic who is to be started insulin therapy, for the proper use and storage of insulin.

SECTION – B (Pathology & Genetics)

- I. Short notes - Pathology (Answer any Five questions only) (5 x 5 = 25)
1. Edema.
 2. Necrosis.
 3. Diabetes mellitus.
 4. Rheumatic Heart Disease.
 5. Etiology.
 6. Gross.
 7. Microscopic findings of tuberculosis of Lung.
- II. Genetics (Answer any Three questions only) (4 x 3 = 12)
1. Describe the autosomal dominant gene inheritance with examples.
 2. Write briefly on Genotype and Phenotype.
 3. Describe Down syndrome of clinical features.
 4. Write briefly on Buccal smear.

PATTERN OF QUESTION PAPER FOR B. Sc. NURSING COURSE
FOR THEORY EXAM

**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) (2 x 15 = 30)
1. Describe steps in nursing research.
 2. Define sampling. Explain the various methods.
- II. Short Notes: (Answer any Four questions only) (4 x 5 = 20)
1. Review of literature.
 2. Use of computers in nursing research.
 3. Thesis format.
 4. Different styles of writing bibliography.

SECTION – B (Statistics)

- I. Answer any One question only (1 x 10 = 10)
1. What is estimation of parameters? Explain the different tests available.
 2. List out the levels of measurements. Discuss in detail.
- II. Short Notes: (Answer any Three questions only) (3 x 5 = 15)
1. Normal distribution.
 2. Guidelines to be followed in making tables.
 3. Bar diagram.