

SYLLABUS FOR POST BASIC B.Sc NURSING

Section - I

PREAMBLE

Nursing encompasses autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well and in all settings. Nursing includes the promotion of health, prevention of illness, and the care of ill, disabled and dying people. Advocacy, promotion of a safe environment, research, participation in shaping health policy and in patient and health systems management, and education are also key nursing roles.

The authority for the practice of nursing is based upon a social contract that delineates professional rights and responsibilities as well as mechanisms for public accountability. In almost all countries, nursing practice is defined and governed by law, and entrance to the profession is regulated at national or state level.

The aim of the nursing community worldwide is for its professionals to ensure quality care for all, while maintaining their credentials, code of ethics, standards, and competencies, and continuing their education. There are a number of educational paths to becoming a professional nurse, which vary greatly worldwide, but all involve extensive study of nursing theory and practice and training in clinical skills.

Nurses care for individuals who are healthy and ill, of all ages and cultural backgrounds, and who have physical, emotional, psychological, intellectual, social, and spiritual needs. The profession combines physical science, social science, nursing theory, and technology in caring for those individuals.

The role of the nurse is evolving, as the mode of delivery of health care services has undergone major changes both locally and internationally in the past decades. In line with international trends, we are developing a health care system that provides lifelong holistic care, promotes health, enhances the quality of life and enables human development. The availability of qualified and competent health care professional is the key to the delivery of quality health care services. As nurses play a pivotal role in the promotion, maintenance and restoration of health, we need to develop competent nurses who are able to take up extended and expanded roles in the delivery of primary, secondary and tertiary care. Thus, apart from the roles of a caregiver, the nurse needs to develop competence to take up the roles of health promoter, educator, counselor, care coordinator, case manager, researcher as well as that the students acquires the essential competence that enables them to fulfill these roles competently and ethically.

Philosophy

We believe the philosophy of Indian nursing council:

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is not a privilege but 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 professionals 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, behavioral sciences.

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 behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups. Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the upgrading 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 at the post basic level 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.

Aims

The aim of the undergraduate nursing program at the post basic level is to upgrade the diploma (GNM) nurses to:

- assume responsibilities as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative, and rehabilitative services.
- make independent decisions in nursing situations, protect the rights of and facilitate individuals and groups in pursuit of health, function 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 clinical/public health settings.

Objectives

On completion of B.Sc. Nursing (Post-Basic) degree programme the graduates will be able to:

1. Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients/clients that contribute to health of individuals, families and communities.
2. Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals and groups in community health settings.
7. Demonstrate managerial skills in community health settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilize research findings in improving nursing practice.
10. Recognize-the need for continued learning for their personal and professional development.

SUBJECT AND TEACHING SCHEDULE

COURSE OF STUDY

S.NO	SUBJECT	HOURS THEORY	HOURS PRACTICAL
	1 Year		
1	Nursing Foundation	45	-
2	Nutrition & dietetics	30	15
3	Biochemistry & Biophysics	60	-
4	Psychology	60	15
5	Maternal Nursing	60	240
6	Child Health Nursing	60	240
7	Microbiology	60	30
8	Medical & Surgical Nursing	90	270
9	English (Qualifying)	60	-
	Total	525	810
Note: Hindi /Local Language as per the need of institution			
	2nd Year		
10	Sociology	60	-
11	Community Health Nursing	60	240
12	Mental Health Nursing	60	240
13	Introduction to Nursing Education	60	75
14	Introduction to Nursing Administration	60	180
15	Introduction to Nursing Research & Statistics	45	120
16.	Environmental Science	50	-
	Total	395	855

SCHEME OF EXAMINATION

Paper	Subject	Duration	Int. Asst	Ext. Asst	Total Marks
Theory	1st Year				
1	Nursing Foundation	2	15	35	50
2	Nutrition & Dietetics	2	15	35	50
3	Biochemistry & Biophysics	3	25	75	100
4	Psychology	3	25	75	100
5	Maternal Nursing	3	25	75	100
6	Child Health Nursing	3	25	75	100
7	Microbiology	3	25	75	100
8	Medical & Surgical Nursing	3	25	75	100
9	English (Qualifying)*	3	25	75	100
	Practical				
1	Medical & Surgical Nursing		50	50	100
2	Maternal Nursing		50	50	100
3	Child Health Nursing		50	50	100
	2nd Year				
10	Sociology	3	25	75	100
11	Community Health Nursing	3	25	75	100
12	Mental Health Nursing	3	25	75	100
13	Introduction To Nursing Education	3	25	75	100
14	Introduction To Nursing Administration	3	25	75	100
15	Introduction To Nursing Research & Statistics**	2	50	50	100
16.	Environmental science**	2	25	75	100
Practical					
1	Community Health Nursing	3	50	50	100
2	Mental Health Nursing	3	50	50	100

Note: * Qualifying Examination

** College Examination (not University Examination)

N.B:

1. Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects
2. A minimum of 80% Attendance in theory and Practical in each subject is essential for appearing in the examination.
3. 100% attendance in practical in each clinical area is essential before award of degree.
4. 50% of minimum marks in each theory and practical paper separately is required for passing.
5. A candidate has to secure minimum of 33% in qualifying subject for passing.

D. Y PATIL UNIVERSITY
D.Y.PATIL COLLEGE OF NURSING KOLHAPUR
POST BASIC. B.SC NURSING I YEAR
NURSING FOUNDATION

THEORY: 45hrs

COURSE DESCRIPTION:-

This course will help students to develop an understanding of the philosophy, objectives and responsibilities of nursing as a profession. The purpose of the course is to orient to the current concepts involved in the practice of nursing and developments in the nursing profession.

OBJECTIVES :-

At the end of the course, the students will:

1. Identify professional aspects of nursing
2. Explain theories of nursing
3. Identify ethical aspects of nursing profession
4. Utilise steps of nursing process
5. Identify the role of the nurse in various levels of health services
6. Appreciate the significance or quality assurance in nursing.
7. Explain current trends in health and nursing

UNIT NO	HOURS	Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
Unit I	6 hrs	<p>Explain concept & scope of nursing</p> <p>Describe values code of ethics & Professional conduct for nurses in india</p>	<p>Development of Nursing as a profession</p> <ul style="list-style-type: none"> * Its philosophy * Objectives and responsibilities of a graduate nurse * Trends influencing nursing practice * Expanded role of the nurse * Development of nursing education in India and trends in nursing education * Professional organizations, career planning * Code of ethics & Professional conduct for nurse. 	Lecture, discussion , chart, slides	Written Test; Objective and Essay Type.
Unit II	12 hrs	<p>Describe the ethical legal issues in nursing</p> <p>Explain concept of health ,illness effect on the individual</p> <p>Explain developmental concept ,needs & roles of individual</p>	<p>Ethical, legal and other issues in nursing</p> <ul style="list-style-type: none"> * Concepts of health and illness, effects on the person * Stress and adaptation * Health care concept and nursing care concept * Developmental concept, needs, roles and problems of the development stages of individual –newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age. 	Lecture, discussion , charts, slides & Demonstrations	Written Test; Objective and Essay Type.

Unit III	5hrs	Explain the theory of nursing practice Describe met paradigm of nursing	Theory of nursing practice * Meta paradigm of nursing – characterized by four central concepts i.e. nurse, person (client/patient), health and environment.	Lecture, discussion . Demonstration Practice session Clinical Practice	Written Test; Objective and Essay Type.
Unit IV	10 hrs	Explain the concepts ,uses & steps of nursing process	Nursing process. * Assessment: Tools for assessment, methods, recording. * Planning: Techniques for planning care, types of care plans. * Implementation of care, recording. * Evaluation: Tools for evaluation, process of evaluation.	Lecture, discussion . Demonstration Practice session Clinical Practice	Written Test; Objective and Essay Type.
Unit V	4 hrs	Explain the value of quality assurance in nursing	Quality assurance: * nursing standards, nursing audit, total quality management. * Role of council and professional bodies in maintenance of standards.	Lecture, discussion . Demonstration ,charts ,slides .	Written Test; Objective and Essay Type.
Unit VI	4 hrs	Explain the current trends in health & nursing	Primary health care concept: * Community oriented nursing * Holistic nursing, Primary nursing * Family oriented nursing concept, Problem oriented nursing * Progressive patient care * Team nursing	Lecture, discussion ,	Written Test; Objective and Essay Type.
Unit VII	4 hrs	Explain biomedical waste management	Biomedical Waste Management	Field Visit, lecture& discussion	Written Test; Objective and Essay Type.

REFERENCES:

1. Kozier B, Erb, G & Oliver, R : Fundamentals of Nursing ;4th ed. California, Addison Wesley., 1991
2. Perry, A.G. & Potter, P.A.: Basic nursing essentials of practice; 5th ed. St. Louis,Mosby, 2003
3. Potter, P.A. & Perry, A.G.: Fundamentals of nursing; 5th ed. Mosby Harcott(India) Pvt. Ltd.
4. Beverly WitleyDugas : Introduction to patient care ; 4th ed., Saunders, 2002
5. White, Lois: Foundations of nursing caring for the whole person; U.S.A.
6. Delmer Thompson Learning,
7. Luckmann, J & Sorensen, K.C.: Basic nursing: a psychophysiologic approach; 3rd ed., W. B. Saunders, 2002
9. Park, J.E. :Text book of preventive and social medicine ; 17th ed., Banarasidas
10. Bhanot, 2003

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NURSING FOUNDATION

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 5	5 x 1	5
2.	Long Answer Questions (LAQ) (Any1 out of 2)	1 x 10	10
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4x5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 2 questions will be given out of which , 1 have to be answered.
3. Short Notes : 6 questions will be given out of which, 4 have to be answered.

NUTRITION AND DIETETICS

Placement :First Year

Time Allotted: Theory -30 hrs.

Practical -25 hrs

COURSE DESCRIPTION

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.

OBJECTIVES

At the end of the course, the student will

1. Explain the principles and practices of nutrition and dietetics.
2. Plan therapeutic diets in different settings.
3. Identify nutritional needs of different age groups and plan diet accordingly.
4. Prepare meals using different methods utilizing cookery rules.

UNIT NO	HOURS		Learning Objective	COURSE CONTENT	Teaching Learning Activities	Assessment
	T	P				
I	8Hrs		Explain the principles of nutrition & dietetics	Introduction to nutrition and dietetics. * Balanced diet, factors on which it depends. * Factors to be considered in planning. * Guides available for planning. * Food hygiene, preparation and preservation * Review of nutrients –micro and macro.	Lecture & Discussion Explain Using chart Panel Discussion	Written Test; Objective and Essay Type.
II	8Hrs	8	Describe & plan various therapeutic diet for different conditions	Introduction to diet therapy * Routine hospital diets * Therapeutic diet under each unit i.e. cardiovascular diseased, Gastronitestinal diseases, Renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre and post operative stage, deficiency diseases and malnutrition, overweight and underweight.	Lecture & Discussion Explain Using chart	Written Test; Objective and Essay Type.

III	8Hrs	7	Describe and plan feeding of infant & children	<p>Infant and child nutrition</p> <ul style="list-style-type: none"> * Feeding of normal infants: factors to be considered in planning, nutritional requirements. * Feeding of premature infants: factors to be considered in planning, nutritional requirements. * Supplementary feeding of infants: Advantage and method of introduction. * Weaning, effects on mother and child * Psychology of infant and child feeding. * Feed the sick child. Diet in diseases of infancy and childhood. * Deficiency states – malnutrition and under nutrition. * Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding. * School lunch programme: Advantages, Need in India. 	<p>Lecture & Discussion Explain with slide film show</p> <p>Demonstration of assessment of nutritional charts</p>	Written Test; Objective and Essay Type.
IV	6Hrs		Describe various community nutrition programme Describe nutritional needs & diet plan for different age groups	<p>Community Nutrition: Need for community nutrition programme.</p> <ul style="list-style-type: none"> * Nutritional needs for special groups: infant, child, adolescent, pregnant woman, lactating mother and old people. * Substitutes for non-vegetarian foods. * Selection of cheap and nutritious foods. Nutrition education- needs and methods. * Methods of assessing nutritional status of individual/group/community. * Current nutritional problems and national programmes. 	<p>Lecture & Discussion Explain with slide film show</p> <p>Demonstration of assessment of nutritional charts</p>	Written Test; Objective and Essay Type.

PRACTICUM

I. Methods of cooking and cookery rules.

1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat.
2. Menu Plans.

II. Preparation of supplementary food for infants.

1. Food for toddlers.
2. Low cost nutritious dishes for vulnerable groups.
3. Dietary case study of patient on special diet and planning of low cost dietary instructions for home adaptations.
4. Planning of therapeutic diets.

REFERENCES:

- 1) Clinical dietetics and Nutrition, Antia 4th ed.
- 2) Nutritive value of Indian foods, Gopalan, 1st ed.
- 3) Krause's Food, Nutrition & diet Therapy, Mahan, 11th ed.
- 4) Nutrition & diet therapy, Williams
- 5) Clinical Dietetics & Nutrition, Philip.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NUTRITION AND DIETETICS

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 5	5 x 1	5
2.	Long Answer Questions (LAQ) (Any 1 out of 2)	1 x 10	10
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4x5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 2 questions will be given out of which , 1 have to be answered.
3. Short Notes : 6 questions will be given out of which, 4 have to be answered.

BIOCHEMISTRY AND BIOPHYSICS

Placement: First Year

Time Allotted:

Section A (Biochemistry) – Theory 30 hrs.

Section B (Biophysics) - Theory 30 hrs.

Practical - 30 hrs

COURSE DESCRIPTION:

This course introduces the basic principles of biochemistry and biophysics related to nursing.

OBJECTIVES:

At the end of the course, the student will

1. Identify the basic principles of biochemistry and biophysics.
2. Synthesize the knowledge of these principles in various nursing situations.

Section A: (Biochemistry)

THEORY : -30 Hrs

UNIT NO	HOURS	Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
I	2Hrs	Describe basic principles of biochemistry Describe the structure & functions of cell	Introduction : Importance of biochemistry in nursing * Study of cell and its various components.	Lecture, discussion, ,charts, slides Demonstration use of microscope	Written Test; Objective and Essay Type.
II	2Hrs	Describe the water & electrolyte balance of human body	Water and Electrolytes: Water sources, property and functions in human body. * Water and fluid balance. * Electrolytes of human body, functions, sources.	Lecture, discussion, Charts Slides Explain using charts, graph	Written Test; Objective and Essay Type.

III	5Hrs	Explain the mechanism of enzymes	Enzymes * Mechanism of action * Factors affecting enzyme activity * Diagnostic applications * Precautions for handling specimens for enzyme estimation * Digestion and absorption of carbohydrates, proteins and fats * Various factors influencing the digestion and absorption, malabsorption syndrome.	Lecture, discussion Slides Demonstration in laboratory	Written Test; Objective and Essay Type.
IV	5Hrs	Explain catabolism of carbohydrates Explain the storage and utilization of fats & glucose in the body	Carbohydrates: Catabolism of carbohydrates for energy purposes * Mitochondrial oxidation and oxidation phosphorylation. * Fats of glucose in the body. Storage of glucose in the body, glycogenesis, glycogenolysis and neoglucogenesis, blood glucose and its regulation. * Glucose tolerance test, hyperglycemia, hypoglycemia, glycemia.	Lecture, discussion Charts Slides Demonstration of laboratory tests	Written Test; Objective and Essay Type.
V	5Hrs	Explain the metabolism of amino acids & proteins	Protein : Amino acids, hormones. * Essential amino acids. Biosynthesis of protein in the cells * Role of nucleic acid in protein synthesis. * Nitrogenous constituents of urine, blood, their origin –urea cycle, uric acid formation, gout. * Plasma proteins and their functions.	Lecture, discussion Charts Slides Demonstration of laboratory tests	Written Test; Objective and Essay Type.

VI	6Hrs	Explain the metabolism of fat, importance of lipids & their functions	Fat: Biosynthesis of fats and storage of fats in the body. * Role of liver in fat metabolism * Biological importance of important lipids and their functions * Cholesterol and lipoprotein * Sources, occurrence and distribution * Blood level and metabolism * Ketone bodies and utilization. * Inter- relationships in metabolism and cellular control of metabolic processes.	Lecture, discussion, explain using charts, graph	Written Test; Objective and Essay Type.
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Section B: (Biophysics)

THEORY : -30 Hrs

UNIT NO	HOURS	Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
I	2Hrs	Basic principles of biophysics	Introduction :Concepts of unit and measurements. * Fundamental and derived units. * Units of length, weight, mass, time.	Lecture, discussion, chart slides	Written Test; Objective and Essay Type.
II	2Hrs	Describe the vector & scalar motion	Vector and scalar motion, speed, velocity and acceleration.	Lecture, & discussion	Written Test; Objective and Essay Type.
III	3Hrs	Describe the gravity & v its application in nursing	Gravity: Specific gravity, centre of gravity, principles of gravity. * Effect of gravitational forces on human body. * Application of principles of gravity in nursing.	Lecture, discussion, chart slides experiments	Written Test; Objective and Essay Type.
IV	3Hrs	Describe the force ,work	Force, work, Energy: Their units of measurement.	Lecture, discussion,	Written Test; Objective and

		& energy ,its principle & application in nursing	<ul style="list-style-type: none"> * Type and transformation of energy, forces of the body, static forces. * Principles of machines, friction and body mechanics. * Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw. * Application of these principles in nursing. 	charts, slides experiments	Essay Type.
V	3Hrs	Describe the heat ,its principle& application in nursing	<p>Heat: Nature, measurement, transfer of heat</p> <ul style="list-style-type: none"> * Effects of heat on matter * Relative humidity, specific heat * Temperature scales * Regulation of body temperature * Use of heat for sterilization * Application of these principles in nursing 	Lecture, discussion Demonstration	Written Test; Objective and Essay Type.
VI	3Hrs	Describe the light ,its principle & applications in nursing	<p>Light: Laws of reflection</p> <ul style="list-style-type: none"> * Focusing elements of the eye, defective vision and its correction, use of lenses. * Relationship between energy, frequency and wavelength of light * Biological effects of light. * Use of light in therapy. * Application of these principles in Nursing. 	Lecture, discussion Demonstration, carts slides	Written Test; Objective and Essay Type.
VII	3Hrs	Describe the pressure ,its principle & applications in nursing	<p>Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure.</p> <p>Measurements of pressures in the body</p> <ul style="list-style-type: none"> * Arterial and venous blood pressures * Ocular pressure * Intracranial pressure * Applications of these principles in nursing. 	Lecture, discussion demonstration charts ,slides	Written Test; Objective and Essay Type.

VIII	2Hrs	Describe the sound ,its principle & applications in nursing	Sound: Frequency, Velocity and intensity * Vocalization and hearing * Use of ultrasound. Noise pollution and its prevention * Application of these principles in nursing.	Lecture, discussion	Written Test; Objective and Essay Type.
IX	5Hrs	Describe the electricity & applications in human body	Electricity and Electromagnetism: Nature of electricity. Voltage, current, resistance and their units. * Flow of electricity in solids, electrolytes, gases and vacuum. * Electricity and human body. * ECG, EEG,EMG, ECT * Pace makers and defibrillation * Magnetism and electricity. * M.R.I Scanning, CAT Scan	Lecture, discussion, demonstration Supervised clinical practice	Written Test; Objective and Essay Type.
X	2Hrs	Describe the atomic energy. its structure, use & applications in nursing	Atomic Energy: Structure of Atom, Isotopes and Isobars. * Radioactivity: Use of radioactive isotopes. * Radiation protection units and limits, instruments used for detection of ionising radiation. X-rays.	Lecture, discussion charts	Written Test; Objective and Essay Type.
XI	2Hrs	Describe the principle of electronic & its applications in nursing	Principles of Electronics: Common electronic equipments used in patient care.	Lecture, discussion Supervised clinical practice	Written Test; Objective and Essay Type

Practicum:

Experiments and Tests should be demonstrated wherever applicable.

REFERENCES :

1. Flitter, H.H.(1989): An introduction to physics in nursing; 7th edition Delhi, All India Traveller Book seller. (Original American ed. Pub. by C.V.Mosby, St.Louis).
2. Sackheim, S.M.(1962): Practical Physics for nurses; 2nd ed. Philadelphia, W.B. Saunders Co.
3. Stearns, H.O.(1962): Fundamentals of physics and Applications; 2nd ed. New York, Macmillan Co.
4. 4) T.N.A.I. (1966): Physics and Chemistry; Laboratory Manual for Student Nurses; 3rd ed. New Delhi, T.N.A.I.
5. Waters, M.(1958): Elementary physics for Nurses; 6th ed London, Faber and fabor.
6. KIGOUR, O.F.G.(1978): An Introduction to the physical aspects of Nursing Sciences; 3rd ed. London, William Heinemann Medical Books Ltd.
7. Nordmark, M.t and Rahweder, A.W.(1959): Science Principles in Nursing; Philadelphia, J.B. Lippincott.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT BIOCHEMISTRY AND BIOPHYSICS

Question No	Question description	Division of marks	Total marks
1	Total MCQ's 15 Biochemistry 1- 7 Biophysics 11-15	7x 1=7 5 x 1=5	15
SECTION - A Biochemistry (30 marks)			
2	Long Answer Questions (LAQ's) (any 1 out of 2)	1 x 10	10
3	Short Notes (Any 4 out 6) a) b) c) d) e) f)	4 x 5	20
SECTION – B (BIOPHYSICS- 30 marks)			
4	Long Answer Questions (LAQ's) (any 1 out of 2)	1 x 10	10
5	Short Notes (Any 4 out 6) a) b) c) d) e) f)	4 x 5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions :2 questions will be given out of which, 1 has to be answered in Biochemistry& Biophysics separately.
3. Short Notes :6 questions will be given out of which,4 have to be answered in Biochemistry& Biophysics separately.

PSYCHOLOGY

Placement :First Year

Time Allotted: Theory -60 hrs.

Practical- 15 hrs

COURSE DESCRIPTION

This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical concepts in the clinical setting and thereby understand the psychodynamics of patient behaviour. This course would also help the student to develop and insight into her own behaviour.

OBJECTIVES

At the end of the course, the student will

1. Apply psychological principles while performing nursing duties.
2. Distinguish the psychological processes during health and sickness.
3. Analyze own behaviour patterns.
4. Tabulate the psychological needs of the patients for planning nursing care.
5. Participate in psychometric assessment of the client.

UNIT NO	HOURS		Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
	T	P				
I	3Hrs		Describe the scope & methods of psychology	* Introduction: Definition of psychology, scope and methods of psychology. * Relationship with other subjects.	Lecture & Discussion	Written Test; Objective and Essay Type
II	6Hrs	5	Describe the sensation,at tenson& distinguish between normal & abnormal Simple experiments Perception measuring thresholds Reaction time	* Sensation, Attention and perception: Definitions * Sensory processes: Normal and abnormal * Attention and distraction: Contributory factors * Characteristics of perception, perception: Normal and abnormal	Lecture & Discussion	Written Test; Objective and Essay Type

III	6Hrs		Describe motivation, its nature Describe Frustration and conflicts	* Motivation: Definition and nature of motivation * Biological and social motives * Frustration and conflicts * Self-actualization	Lecture & Discussion	Written Test; Objective and Essay Type
IV	5Hrs		Describe emotions & its application in sickness	* Emotions: Definition of emotions, expression and perception * Emotions in sickness	Lecture & Discussion	Written Test; Objective and Essay Type
V	7Hrs		Explain the concept of personality & its influence on behavior.	* Personality : Definition , constituents of personality * Personality in sickness and nursing	Lecture & Discussion	Written Test; Objective and Essay Type
VI	5Hrs		Describe psychological needs of various ages during their life cycle	* Psychological aspects of nursing * Behaviour and sickness. Psychological needs of Child and adolescents Adult Aged Attendants * Chronically ill individual	Lecture & Discussion Case Discussion	Written Test; Objective and Essay Type
VII	4Hrs		Describe significance of individual differences & its implications in nursing	* Individual differences * Significance of individual differences. * Heredity and environment * Role of individual differences both in health and sickness. * Implications of individual differences in nursing.	Lecture & Discussion Demonstration Practical sessions	Written Test; Objective and Essay Type
VIII	6Hrs		Describe intelligence & abilities during sickness	* Intelligence and Abilities: Definition * Intelligence and abilities during sickness * Measurement of intelligence and abilities.	Lecture & Discussion Demonstration	Assessment of Practice Written Test; Objective and Essay Type
IX	5Hrs		Describe learning & laws of learning during health & sickness	* Learning: Definition, conditions of learning * Laws of learning * Learning during health and sickness.	Lecture & Discussion Demonstration	Assessment of Practice Written Test; Objective and Essay Type

X	5Hrs		Describe memory & forgetting Describe its application during health & sickness	* Memory and forgetting: Definition and nature of memory * Memory during health and sickness. * Forgetting during health and sickness	Lecture & Discussion Demonstration	Written Test; Objective and Essay Type
XI	5Hrs		Describe attitude & role of attitudes in health & sickness	* Attitudes: Definition, Development and modification * Role of attitudes in health and sickness.	Lecture & Discussion	Written Test; Objective and Essay Type
XII	3Hrs		Describe the characteristics of mentally healthy person Explain ego, defense mechanism	* Concept of mental hygiene and mental health * Characteristics of a mentally healthy person. * Defense mechanisms.	Lecture & Discussion	Written Test; Objective and Essay Type

PRACTICUM

1. Simple experiments of (i) perception (ii) measuring thresholds (iii) reaction time.
2. Administration of psychological tests
3. Observation and recording data: (i) field observation (ii) interview (iii) case study (iv) self-rating.

REFERENCES:

1. Bhatia, B.D. and Craig, M: Elements of psychology and mental hygiene for nurses; Chennai : Orient Longman Pvt. Ltd
2. Dandekar, W.N: Fundamentals of experimental psychology ; Kolhapur : MoghePrakashan
3. Hurlock, E. : Developmental psychology ; Singapore :Tata McGraw Hill Book Co.,
4. McGhee, A: Psychology as applied to nursing ; London : Churchill Livingstone
5. Morgan, C.T. and King, R.A.: Introduction to psychology ; Singapore : McGraw Hill Book Co.,

**DISTRIBUTION OF TYPE OF QUESTION AND MARKS
FOR THE SUBJECT PSYCHOLOGY**

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8x5	40

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 questions will be given out of it 2 have to be answered.
3. Short Notes : 10 questions will be given out of it 8 have to be answered.

MICROBIOLOGY

PLACEMENT: FIRST YEAR

TIME ALLOTTED: Theory -60 hrs

Practical 30 hrs

COURSE DESCRIPTION

This course reorients the students to the fundamentals of Microbiology and its various sub-divisions. It provides opportunities to gain skill in handling and use of microscope for identifying various micro-organisms. It also provides opportunities for safe handling of materials containing harmful bacteria and methods of destroying microorganisms.

OBJECTIVES

At the end of the course, the student will

1. Identify common disease producing micro-organisms.
2. Explain the basic principles of microbiology and their significance in health and disease.
3. Demonstrate skill in handling specimens.
4. Explain various methods of dis-infection and sterilization.
5. Identify the role of the nurse in hospital infection control system.

UNIT NO	HOURS		Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
	T	P				
I	5	5	Describe the structure, classification morphology & motility of microbes	<ul style="list-style-type: none"> * Structure and classification of microbes * Morphological types * Size and form of bacteria * Motility. * Classification of Micro-organisms. Practical: * Use and care of microscope. * Common examination :Smear, blood, mouldes, yeasts. 	Lecture, discussion Demonstration	Written Test; Objective and Essay Type.
II	5	5	<p>Identify common disease producing micro-organisms</p> <p>Describe & discuss different laboratory methods to diagnose bacterial diseases</p>	<ul style="list-style-type: none"> * Identification of Micro-organisms * Discussion of laboratory methods * Diagnosis of bacterial diseases. Practical: * Staining techniques-gram staining, acid fast staining. * Hanging drop preparation. 	Lecture, discussion Demonstration	Written Test; Objective and Essay Type.

III	5	5	Describe the growth & nutrition of microbes	<ul style="list-style-type: none"> * Growth and Nutrition of Microbes * Temperature * Moisture * Blood <p>Practical:</p> <ul style="list-style-type: none"> * Preparation of Media and culture techniques. * Collection, handling and transportation of various specimens. 	Lecture, discussion Demonstration	Written Test; Objective and Essay Type.
IV	10	2	Describe the methods of infection control Identify the different disease producing micro-organisms	<ul style="list-style-type: none"> * Destruction of Micro-organisms. * Sterilization and disinfection * Chemotherapy and antibiotics * Effects of heat and cold * Hospital infection control procedure and role of nurses. <p>Practical:</p> <p>Sterilization methods – physical, chemical and mechanical</p>	Lecture, discussion Demonstrations	Written Test; Objective and Essay Type.

V	12	4	Describe the different diseases producing microorganiss	<ul style="list-style-type: none"> * Disease producing micro-organisms * Gram positive bacilli * Tuberculosis and Leprosy * Anaerobes * Cocci * Spirochaete * Rickettsiae <p>Practical: Identification and study of the following bacteria: Streptococci, pneumococci and Staphylococci, Corynebacteria, Spirochetes and gonococci. Enteric bacteria. Posting in infection control department.</p>	Lecture, discussion, Demonstrations Clinical practice	Written Test; Objective and Essay Type.
VI	5		Describe pathogenic fungi, dermatophytes&mycotic infections & its laboratory diagnosis	<ul style="list-style-type: none"> * Pathogenic Fungi * Dermatophytes * Systemic mycotic infection <p>* Laboratory diagnosis of mycotic infection</p>	Lecture, discussion, Demonstrations Clinical practice	Written Test; Objective and Essay Type.

VII	8	5	Explain the concept of immunity & hypersensitivity & immunization in diseases	<ul style="list-style-type: none"> * Immunity * Immunity and hypersensitivity –Skin test * Antigen and antibody reaction * Immunization in disease. <p>Practical: Demonstration of serological methods</p>	Lecture, discussion Clinical practice	Written Test; Objective and Essay Type.
VIII	8	4	Describe parasites & vectors, protozoal infections, helminthes & its diagnosis & disease transmission	<ul style="list-style-type: none"> * Parasites and vectors. * Characteristics and classification of parasites * Protozoal infection including amoebiasis * Helminthes infection * Diagnosis of parasitic infection * Vectors and diseases transmitted by them. <p>Practical: Identification of Parasites and Vectors.</p>	Lecture, discussion Clinical practice	Written Test; Objective and Essay Type.
IX	5		Describe & classify different viruses Explain the causes of diseases by viruses & there control	<ul style="list-style-type: none"> * Viruses. * Classification and general character of viruses * Diseases caused by viruses in man and animal and their control. 	Lecture, discussion Clinical practice	Written Test; Objective and Essay Type.

X	5		Explain food born infections & food poisoning	* Micro-organisms transmitted through food. * Food poisoning. Food borne infections.	Lecture, discussion Clinical practice	Written Test; Objective and Essay Type.
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Practicum

Each student will practice in the laboratory as indicated in each unit of the courses outline. While giving nursing care in the wards they will practice collection and processing of specimens, prevention and control of hospital infections, sterilization, immunization, chemotherapy and maintenance of personal and environmental hygiene. Observation visit to incinerator, Posting in CSSD and infection control department.

REFERENCES

- 1) Ananthnarayan: Textbook of Microbiology
- 2) Chakravarti: Textbook of Microbiology
- 3) Chattergey K.D.: Text book of Parasitology
- 4) Panikar: Textbook of Parasitology
- 5) Konemen: Textbook of Medical Microbiology
- 6) Marion E. Wilson: Microbiology in Nursing Practice.

**DISTRIBUTION OF TYPE OF QUESTIONS AND MARKS FOR THE
MICROBIOLOGY**

Type of Question	No of Question	Marks for each Question	Total
MCQ	15	1	15
Long Answer Questions	2	10	20
Short Notes	8	5	40
			75

Note:

1. MCQ's : EACH MCQ's Carries One Mark
2. Long Answer Questions : 3 Questions will be given out of it 2 has to be answered
3. Short Notes : 10 Questions will be given out of it 8 has to be answered.

MATERNAL NURSING

Placement :First Year

Time Allotted :Theory -60 hrs

Practical - 240 hrs

COURSE DESCRIPTION

This course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire knowledge and develop skill in rendering optimum nursing care to a child bearing mother in a hospital or community and help in the management of common gynecological problems.

OBJECTIVES

At end of the course, the student will

1. Describe the physiology of pregnancy, labour and puerperium.
2. Manage normal pregnancy, labour and puerperium.
3. Explain the physiology of lactation and advice on management of breast feeding.
4. Be skilled in providing pre and post operative nursing care in obstetric conditions.
5. Identify and manage high risk pregnancy including appropriate referrals.
6. Propagate the concept and motivate acceptance of family planning methods.
7. Teach, guide and supervise auxiliary midwifery personnel.

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	TEACHING LEARNING ACTIVITIES	ASSESSMENT
I	5hrs	Describe the concept of maternal nursing Explain the magnitude of maternal morbidity & mortality rates Describe the legislations related to maternity benefits ,MTP act & family planning	* Introduction and historical review * Planned parenthood * Maternal morbidity and mortality rates * Legislations related to maternity benefits, MTP acts, incentives for family planning etc.,	Lecture & Discussion Assessment of skills with check list	Written Test; Objective and Essay Type.
II	6hrs	Describe the anatomy & physiology of female reproductive system Explain foetal development	* Review of the anatomy and physiology of female reproductive system. * Female pelvis(normal and contracted) * Review of foetal development.	Lecture & Discussion Explain using models Chart sides Specimen record book	Written Test; Objective and Essay Type
III	8hrs	Describe the physiology & management of pregnancy, labour&puerperiu Perform neonatal resuscitation Recognse& manage common neonatal problems	* Physiology and management of pregnancy, labour and puerperium * Signs and symptoms and diagnosis of pregnancy * Antenatal care * Pregnant women with HIV/AIDS * Management of common gynaecological problems.	Lecture & Discussion Demonstration Charts slides Assessment of skills with check list	Written Test; Objective and Essay Type.

IV	6hrs	<p>Describe essential newborn care</p> <p>Describe the management of high risk newborn</p>	<ul style="list-style-type: none"> * The New born baby * Care of the baby at birth including resuscitation * Essential Newborn Care * Feeding * Jaundice and infection * Small and large for date babies * Intensive care of the new born * Trauma and haemorrhage. 	<p>Lecture & Discussion</p> <p>Demonstration</p> <p>Charts slides</p> <p>Assessment of skills with check list</p>	<p>Written Test;</p> <p>Objective and Essay Type.</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management</p>
V	5hrs	<p>Describe management of abnormal pregnancy labour&puerperiu</p> <p>Identify & manage high risk pregnancy &puerperium</p>	<ul style="list-style-type: none"> * Management of abnormal pregnancy, labour and puerperium * Abortion, ectopic pregnancy and vesicular mole. * Pregnancy induced hypertension, gestational diabetes, anaemia, heart disease. * Urinary infections, Antepartum hemorrhage * Abnormal labour (malposition and malpresentation) * Uterine inertia * Disorders or puerperium * Management of engorged breast, cracked nipples, breast abscess and mastitis 	<p>Lecture & Discussion</p> <p>Demonstration</p> <p>Charts slides</p> <p>Assessment of skills with check list</p>	<p>Written Test;</p> <p>Objective and Essay Type.</p>

			<ul style="list-style-type: none"> * Puerperal sepsis * Post partum haemorrhage * Inversion and prolapse of uterus, obstetrical emergencies * Obstetrical operations i.e. forceps, vacuum, episiotomy, caesarean section. 		
VI	10hrs	Explain effect of drugs during pregnancy , labour&puerperium o mother &baby	<ul style="list-style-type: none"> * Drugs in obstetrics * Effects of drugs during pregnancy, labour and puerperium on mother and baby. 	Lecture & Discussion Drug book	Written Test; Objective and Essay Type.
VII	3hrs	Explain the concept f national family welfare programs for women & national family welfare program	<ul style="list-style-type: none"> * National Welfare programmes for women * National Family welfare programme * Infertile family * Problems associated with unwated pregnancy * Unwed mothers. 	Lecture & Discussion Chart slides	Written Test; Objective and Essay Type.

PRACTICUM

1. The students will
 - a. Be posted in antenatal clinic, antenatal ward, labour room, postnatal ward, maternity OT, MTP room.
 - b. Visit welfare agencies for women and write observation report.
 - c. Follow nursing process in providing care to 3-6 patients.
 - d. Write at least two nursing care studies and do a presentation
 - e. Give at least one planned health teaching to a group of mothers.

2. Practice following nursing procedures.
 - a. Antenatal and post natal examination, per vaginal exam.
 - b. Conduct normal delivery, stitching of episiotomy, (For male candidates minimum conduct of 5 deliveries)
 - c. Motivation of family for adopting family planning methods.
 - d. Motivate family for planned parenthood.
 - e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

REFERENCES

1. Myles Text Book of Midwives ,Eds; Diane M. Fraser and Margaret A. Cooper
14th Ed , Churchill Livingstone.
2. D.C. Dutta Text Book of Obstetrics including Perinatology and Contraception 6th
Edition , 2004 New Central Book Agency.
3. Hawkins and Bourne ,Shaws Textbook of Gynaecology, Eds; V.G Padubidri and
Shirish N Daftary, 13th ed, Reed ElseiverIndia.
4. S SRatnam, K BhaskerRao and S Arulkumar, Obstetrics and Gynaecology for
Postgraduates ,Vol 1 and Vol 2, Orient Longman Ltd 1994
5. lower milk, perry, Bobak:”Maternity and women’s Health Care” 6th ed.; 1997.
C.V Mosby.
6. C.S.Dawn: Textbook for obstretics& neonatology 12th edition.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS

FOR THE SUBJECT MATERNAL NURSING

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8x5	40

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 questions will be given out of which , 2 have to be answered.
3. Short Notes : 10 questions will be given out of which, 8 have to be answered.

CHILD HEALTH NURSING

Placement :First Year

Time Allotted :Theory -60 hrs

Practical - 240 hrs

COURSE DESCRIPTION

This course is aimed at developing an understanding of the modern approach to child care, the common health problems of children and neonates in health and sickness.

OBJECTIVES

At the end of the course, the student will

1. Explain the modern concept of child care and the principles of child health nursing.
2. Describe the normal growth and development of children at different ages.
3. Manage sick as well as healthy neonates and children.
4. Identify various aspects of preventive pediatric nursing and apply them in providing nursing care to children in hospital and community.

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	Teaching Learning Methods	Evaluation
I	8Hrs	Describe the historical development philosophy & principles in nursing	Introduction * Modern concept 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. * 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	Lecture, discussion, Demonstration of common pediatric procedure Assessment of skills with checklist	Written Test; Objective and Essay Type.

			<p>child.</p> <ul style="list-style-type: none"> * The role of a paediatric nursing in caring for a hospitalized child * Principles of pre and post operative care of infants and children. * Paediatric nursing procedures. 		
II	12Hrs	<p>Describe the normal growth & development of children at different ages</p> <p>Identify the needs of children at different ages & provide parental guidance</p>	<p>The healthy child</p> <ul style="list-style-type: none"> * Growth and development from birth to adolescence * The needs of normal children through the stages of development and parental guidance. * Nutritional needs of children and infants breast-feeding, supplementary/artificial feeding and weaning. * Accidents, causes and prevention * Value of play and selection of play material * Preventive immunization. 	<p>Lecture, discussion, Demonstrations</p> <p>Developmental study of infant and children</p> <p>Observation on study of normal and sick child</p>	<p>Written Test; Objective and Essay Type.</p>
III	4Hrs	<p>Provide care to normal & low birth baby</p> <p>Perform neonatal resuscitation recognize and manage common neonatal problems</p>	<p>Nursing care of a neonate</p> <ul style="list-style-type: none"> * Nursing care of a normal newborn * Neonatal resuscitation * Nursing management of a low birth weight baby. * Nursing management of common neonatal disorders. * Organization of neonatal unit. <p>Prevention of infections in the nursery.</p>	<p>Lecture, discussion, Demonstrations</p> <p>Workshop on neonatal resuscitation</p> <p>Demonstration Practice</p> <p>Assessment of skills with check list</p>	<p>Written Test; Objective and Essay Type.</p>
IV	32Hrs	<p>Provide nursing care in common childhood diseases</p> <p>Identify measures to prevent common childhood</p>	<p>Nursing management in common childhood diseases</p> <ul style="list-style-type: none"> * Nutritional disorders and infections * Respiratory disorders and infections * Gastrointestinal infections, infestations and congenital disorders. * Cardio vascular problem-congenital defects and rheumatic 	<p>Lecture, discussion, Demonstrations</p> <p>Practice session</p> <p>Clinical practice</p>	<p>Written Test; Objective and Essay Type.</p>

		diseases including immunization	<p>fever.</p> <ul style="list-style-type: none"> * Genito-urinary disorder – Nephrotic syndrome, wilms’ tumor, infection and congenital disorders. * Neurological infections and disorders-convulsions, epilepsy, meningitis, hydrocephalus, spinabifida. * Hematological disorders – aAnemias 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. * Paediatric emergencies – poisoning, foreign bodies, haemorrhage, burns and drowning. 		
V	4Hrs	Manage the child with behavioral & social problem	<p>Management of behaviour disorders in children.</p> <ul style="list-style-type: none"> * Management of challenged children: * Mentally challenged * Physically challenged * Socially challenged 	<p>Lecture, discussion, Demonstrations</p> <p>Field visit to the child guidance clinics, school for mentally physically & socially challenged</p>	<p>Written Test; Objective and Essay Type.</p>

PRACTICUM

The student will:-

1. Be posted in paediatric medical and surgical ward, OPD in hospital, health centre and neonatal unit.
2. Visit a centre for handicapped children and child welfare centre and write observation report.
3. Write an observation study of normal children of various age groups in home/nursery school/ crèche.
4. Follow nursing process in providing care to 3-6 children.
5. Write at least two nursing care studies and do a presentation.
6. Give two planned health teachings, one in hospital and one in OPD/health centre.
7. Practice the following nursing procedures:
 - Taking pediatric history.
 - Physical assessment of children.
 - Baby bath.
 - Feeding
 - Restraining
 - Calculation of dosage of drugs and administration of medications and injections.
 - Collection of specimens.
 - Enema, bowel wash, colostomy irrigation.
 - Steam and Oxygen inhalation
 - Preparation to assist with diagnostic tests and operations.
 - Examination/Assessment of a newborn
 - Neonatal resuscitation
 - Care of a baby in incubator and on ventilator
 - Photo therapy
 - Assist in exchange transfusion and other therapeutic procedures.

REFERENCES:

1. Marlow Dorothy and Redding. Text book of Paediatric Nursing. 6th edition Hartcourt India Ltd, New Delhi, 2001.
2. Wong Dona et al. Whaley and Wongs Nursing care of Infants and children. 6th edition. Mosby Company, Philadelphia, 2000.
3. Black G Florence and Wright. Essential of Paediatric Nursing. JB Lippincott & Co. Philadelphia.
4. Parthasarathy et al. IAP Text book of Paediatrics. 1st edition Jaypee Brothers, New Delhi-2000.
5. Ghai OP et al. Ghai's Essentials of Paediatrics. 5th edition. Mehta Offset works, New Delhi, 2000
6. Vishwanathan and Desai. Achar's Text book of Paediatrics. 3rd edition Orient Langman. Chennai, 1999.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS

FOR THE SUBJECT CHILD HEALTH NURSING

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8x5	40

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 questions will be given out of which , 2 have to be answered.
3. Short Notes : 10 questions will be given out of which, 8 have to be answered.

MEDICAL SURGICAL NURSING

Placement: First Year

Time Allotted: Theory – 90 hrs

Practical - 270 hrs

COURSE DESCRIPTION

The purpose of this course is to widen the student's knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology, pathophysiology in medical-surgical disorders and the nursing management of these conditions.

OBJECTIVES

At the end of the course, the student will

1. Explain relevant Anatomy and Physiology of various systems of the body.
2. Explain pathophysiology of various disorders.
3. Explain the actions, side effects and nursing implications in administering drugs for various disorders.
4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
6. Assist the patients and their families in identifying and meeting their own health Needs.
7. Appreciate the role of the nurse in the medical surgical health team.

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	Teaching Learning Methods	Evaluation
I	4Hrs	Explain the roles of a nurse in patient care	<ul style="list-style-type: none"> * Introduction to medical surgical nursing. * Review of concepts of comprehensive nursing care in medical surgical conditions. * Nurse, patient and his/her family. * Functions of nurse in the outpatient department. * Intensive care unit. 	Lecture, discussion charts, graphs, models, films and slides	Written Test; Objective and Essay Type.
II	10Hrs	Describe the common signs & symptoms of patients suffering with minor illness	<ul style="list-style-type: none"> * Nursing management of patient with specific problems. * Fluid and electrolyte imbalance. * Dyspnea and cough, respiratory obstruction * Fever * Shock * Unconsciousness * Pain Acute illness * Incontinence 	Lecture, discussion charts, graphs, models, films and slides Demonstrations Practice sessions Case discussion Seminar	Written Test; Objective and Essay Type.
III	8Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of	Nursing management of patient with neurological and neurosurgical conditions. Review of anatomy and physiology of the	Lecture, discussion, Demonstrations Case discussion/seminar	Written Test; Objective and Essay Type.

		patients with neurological disorders	nervous system. Pathophysiology, diagnostic procedures and management of: <ul style="list-style-type: none"> * Cerebro-vascular accident. * Cranial, spinal and peripheral neuropathies. * Head-ache and intractable pain * Epilepsy * Infectious and inflammatory diseases and trauma of the nervous system. * Common disorders of the system. * Recent advances in diagnostic and treatment modalities. * Drugs used in these disorders. * Tumors of brain and spinal cord, congenital malformations, degenerative diseases. 	Health education Supervised clinical practice Drug book presentation	
IV	8Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adults including elderly with	Nursing management of patient with cardiovascular problems. Review of relevant anatomy and physiology of cardio vascular system. Pathophysiology, diagnostic procedures and	Lecture, discussion, Demonstrations Case discussion/seminar Health education Supervised clinical practice	Written Test; Objective and Essay Type.

		disorders of blood and cardiovascular problems	<p>management of</p> <ul style="list-style-type: none"> * Ischemic heart diseases. * Cardiac arrhythmias. * Congestive heart failure. * Rheumatic and other valvular heart diseases. * Endocarditis, cardiomyopathies, congenital heart, diseases, hypertension, heart block. * Cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurysms and peripheral vascular disorders, recent advancement in cardiology. 	Drug book presentation	
V	6Hrs	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and nursing management of patients with adult including elderly with disorder of respiratory system, common medical surgical	<p>Nursing management of patient with respiratory problems. Review of anatomy and physiology of respiratory system, pathophysiology, diagnostic procedures and management of upper respiratory tract infections.</p> <ul style="list-style-type: none"> * Bronchitis * Asthma 	<p>Lecture, discussion, Demonstrations, Chart graphs, films and slides, Case discussion/seminar</p> <p>Health education</p> <p>Supervised clinical practice</p> <p>Drug book presentation</p>	Written Test; Objective and Essay Type.

		nursing procedures	<ul style="list-style-type: none"> * Emphysema, empyema, Atelectasis, COPD * Bronchiectasis * Pneumonia * Pulmonary tuberculosis * Lung abscess * Pleural effusion * Tumours and Cysts * Chest injuries * Respiratory arrest and insufficiency * Pulmonary embolism * Drugs used in the management of these patients. * Special respiratory therapies. 	<p>Exposure to procedure</p> <ul style="list-style-type: none"> -x-ray -MRI -Endoscopy 	
VI	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of genitourinary system	<p>Nursing management of patient with genitor-urinary problems. Review of anatomy and physiology of the genitor-urinary system</p> <ul style="list-style-type: none"> * Nephritis * Renal Calculus * Acute renal failure * Chronic renal failure * End stage renal disease <p>Special procedures, dialysis, renal transplant</p>	<p>Lecture, discussion, Demonstrations</p> <p>Case discussion/seminar</p> <p>Health education</p> <p>Supervised clinical practice</p> <p>Drug book presentation</p>	Written Test; Objective and Essay Type.

			Drugs used in management of these patients Congenital disorders, urinary infections, Benign prostate hypertrophy.		
VII	5Hrs	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and nursing management of patients with adult including elderly with disorder of digestive system	Nursing management of patients with problems of the digestive systems. Review of anatomy and physiology of gastrointestinal system and accessory organs. Pathophysiology, diagnostic procedures and management of * G.I. Bleeding * Peptic ulcer * Infections * Acute abdomen * Colitis, diarrhea, dysentery and mal-absorption syndrome. * Cholecystitis * Hepatitis, hepatic coma and cirrhosis of liver. * Portal hypertension * Pancreatitis * Tumors, hernias, fistulas, fissures, hemorrhoids. Drugs used in the management of these patients.	Lecture, discussion, Demonstrations Explain using charts, graphs and slides Case discussion/seminar Health education Supervised clinical practice Drug book presentation	Written Test; Objective and Essay Type.

VIII	10Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of endocrine system	Nursing management of patients with endocrine problems Review of anatomy and physiology and patho-physiology of patients with * Thyroid disorders * Diabetes mellitus * Diabetes insipidus * Adrenal tumour * Pituitary disorders * Diagnostic procedures Nursing management of patient with above problems. Drugs used in endocrine problems.	Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides Case discussion/seminar Practice sessions Health education Supervised clinical practice Drug book presentation	Written Test; Objective and Essay Type.
IX	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of musculo skeletal system	Nursing management of patients with musculoskeletal problems. Review of anatomy and physiology and pathophysiology * Arthritis, osteomyelitis, bursitis, * Fractures, dislocation and trauma * Prolapsed disc * Osteomalacia and osteoporosis	Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides Case discussion/seminar Health education Supervised clinical practice Drug book presentation	

			<ul style="list-style-type: none"> * Tumor * Amputation <p>Diagnositc procedures Nursing management of patients with above problems. Prosthesis and rehabilitation. Transplant and replacement surgeries.</p>		
X	3Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of patients with oncology	<ul style="list-style-type: none"> * Nursing management of patients with disorders of female reproductive tract. * Disorder of menstruation * Infections of the genital tract * Beningn and malignant tumors of the genital tract * R.V.F., V.V.F * Climateric changes and associated problems. 	<p>Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides Case discussion/seminar</p> <p>Health education</p> <p>Supervised clinical practice</p> <p>Drug book presentation</p>	Written Test; Objective and Essay Type.
XI	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with burns reconstructive and cosmetic surgery	<ul style="list-style-type: none"> * Nursing management of patients with oncological disorders. * Types of neoplasms and related pathophysiology * Diagnostic procedures * Modalities of treatment and nurse's role 	<p>Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides Case discussion/seminar</p> <p>Health education</p>	Written Test; Objective and Essay Type.

			<p>* Special therapies – Chemotherapy and radiotherapy</p> <p>* Preventive measures, other therapies.</p>	<p>Supervised clinical practice</p> <p>Drug book presentation</p>	
XII	3Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of immunological system	<p>* Nursing management of patient with burns.</p> <p>* Nursing management of patient with reconstructive surgeries.</p>	<p>Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides</p> <p>Case discussion/seminar</p> <p>Health education</p> <p>Supervised clinical practice</p> <p>Drug book presentation</p>	Written Test; Objective and Essay Type.
XIII	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of communicable diseases	<p>Nursing management of patients with common communicable diseases and STD'S</p> <p>Nursing management of patient with immunological disorders including HIV/AIDS</p>	<p>Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides</p> <p>Case discussion/seminar</p> <p>Health education</p> <p>Supervised clinical practice</p> <p>Drug book presentation</p>	Written Test; Objective and Essay Type.

XIV	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of ear, nose and throat	Nursing management of patients with diseases of eye, ear, nose, throat and skin.	Lecture, discussion, Demonstrations Explain using charts, graphs models, films and slides Case discussion/seminar Health education Supervised clinical practice Drug book presentation	Written Test; Objective and Essay Type.
XV	5Hrs	Describe the etiology ,pathophysiology clinical manifestations ,diagnostic measures and nursing management of patients with adult including elderly with disorder of blood	Nursing management of patients with blood disorders Review of anatomy and physiology of blood and blood products. Patho-physiology, diagnostic procedures and management of blood disorders * Anemia * Leukemia * Bleeding disorders * Hemophilia * Purpura etc. Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion,	Lecture, discussion,	Written Test; Objective and Essay Type.

			<p>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.</p>		
XVI	3Hrs	Explain the role of a nurse in nursing emergencies	<ul style="list-style-type: none"> * Nursing in emergencies. * Cardiac emergencies * Trauma * Poisoning * Crisis management: Thyroid crisis, Hypertensive crisis, adrenal crisis. 	Lecture, discussion	Written Test; Objective and Essay Type.

PRACTICUM

Students should be rotated in the selected medical and surgical areas, like cardio thoracic, neurology, urology, orthopedics, Gynecology, Oncology, burns and Reconstructive surgical units.

The students should be given patient assignment. They have to practice patient centered comprehensive nursing.

Each student is required to give planned health teachings, conduct clinical teaching, case presentation and drug study.

REFERENCES:

1. LongPhipps. Casseyer. Medical Surgical Nursing. A Nursing process approach. Pub. Mosby co. 1993
2. Lewis, Collier, Heitcemper. Medical Surgical Assessment& management of clinical problems.
3. Brunner &Suddharth. Medical Surgical Nursing Pub.J.B.Lippincott co.
4. Luckmann& Sorensen. Medical Surgical Nursing Aphyschophysiologic approach. Pub.W.B. Saunders co.
5. Joyce M. Black, E.M. Jacobs; Medical, Surgical Nursing, Clinical Management for continuity of care; 5th ed.; 1997; by W.B. Saunders company.(part I&II).

**DISTRIBUTION OF TYPE OF QUESTIONS AND MARKS
FOR THE SUBJECT MEDICAL SURGICAL NURSING**

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8x5	40

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 questions will be given out of which , 2 have to be answered.
3. Short Notes : 10 questions will be given out of which, 8 have to be answered.

ENGLISH

Placement: First Year Time

Allotted: Theory -60 hrs

COURSE DESCRIPTION

This course is designed to help the student understand and usage of English language required for their professional work.

OBJECTIVES

After the course the students will develop

1. Ability to speak and write grammatically correct English
2. Effective skill in reading and understanding the English language
3. Skill in reporting

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	Teaching Learning Methods	Evaluation
I	15Hrs	Learn & understand English grammar, develop vocabulary Explain the steps & research process	Remedial study of grammar * Review of grammar, vocabulary and effective use of dictionary * Prepare task oriented seminars. * Symposia and panel discussion.	Demonstrate use of dictionary Class room conversion Exercise on use of grammar Practice in public school	Written Test; Objective and Essay Type.
II	10Hrs	Develops ability in reading & speaking correct English	The ability to understand selected passage and express meaning in one's own words. Reading and comprehension of the prescribed books.	Exercise on reading Summarizing comprehension	Written Test; Objective and Essay Type.

III	20Hrs	Develops effective skills in reading & understanding English language	The study of various forms of composition * Note taking * Diary * Nurses notes, anecdotal records * Writing of summary * Nurses reports on health problems * The student will submit one sample of each item from her own practical experience.	Exercise on writing Letter writing Precise Dairy Anal to be health problem Story writing Resume writing Essay writing Discussion on written report documents	Written Test; Objective and Essay Type.
IV	15Hrs	Develop skills in communications & implement it in day to day practical experience	Verbal communication * Oral reports * Summarization of discussion * Debate * Listening comprehension –Film, Cassette and Radio.	Exercise on debating Participating in seminar Panel symposium Telephone	Written Test; Objective and Essay Type.

PRACTICUM

The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language.

Assignment on writing and conversation through participation in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communication.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS
FOR THE SUBJECT ENGLISH

Question No.	Question description	Division of marks	Total marks
1.	MCQs	15 x 1	15
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8x5	40
	Total Marks		75

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 question will be given out of which, 2 has to be answered.
Bitwise questions may be asked.
3. Short Notes : 10 questions will be given out of it 8 has to be answered.