

MAHARASHTRA UNIVERSITY HEALTH SCIENCES

**SYLLABI AND REGULATIONS
P.B.B.Sc. NURSING
2005**

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PHILOSOPHY

MUHS believes in proper systematic teaching, training and research in Modern Medical Sciences and uniformity in various courses in medical and allied health sciences. The philosophy of the P. B. B. Sc.(N) is incorporated by MUHS at par of Indian Nursing Council.

Indian Nursing Council believes that, **Health** is a state of well-being that enables a person to lead a psychologically, socially and economically productive life.

Nursing contributes to the health services in vital and significant way in the health care delivery system. It organizes 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.

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 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, manager in a clinical/public health setting.

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.

COURSE OF STUDY :

Sr. No.	Subject	Theory Hours	Practical Hours	Total Hours
1st Year				
1.	Nursing Foundation	45	030	075
2.	Nutrition & Dietetics	30	015	045
3.	Biochemistry & Biophysics	60	-	060
4.	Psychology	60	015	075
5.	Maternal Nursing	60	240	300
6.	Child Health Nursing	60	240	300
7.	Microbiology	60	030	090
8.	Medical & Surgical Nursing	90	270	270
9.	English (Qualifying)	60	-	060
Total		525	840	1215

Note: Hindi/local language as per the need of the institution.

2nd Year

10.	Sociology	60	-	060
11.	Community Health Nursing	60	240	300
12.	Mental Health Nursing	60	240	300
1.	Introduction to Nursing Education	60	075	135
2.	Introduction to Nursing Administration	60	180	240
3.	Introduction to Nursing Research & Statistics	45	120	165
Total		345	855	1200

SCHEME OF EXAMINATION:

1st Year

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
Theory					
1.	Nursing Foundation	2	15	35	050
2.	Nutrition & Dietetics	2	15	35	050
3.	Biochemistry & Biophysics	3	25	75	100
4.	Psychology	3	25	75	100
5.	Microbiology	3	25	75	100
6.	Maternal Nursing	3	25	75	100
7.	Child Health Nursing	3	25	75	100
8.	Medical & Surgical Nursing	3	25	75	100
9.	* English (Qualifying)	--	100 College level qualifying exam, minimum passing Marks 33%.		100
Practicals					
1.	Medical & Surgical Nursing		50	50	100
2.	Child Health Nursing		50	50	100
3.	Maternal Nursing		50	50	100

Note: * College level qualifying exam to appear in University Examination, minimum passing Marks 33%

2nd Year

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
Theory					
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 Service Administration	3	25	75	100
15.	** Introduction to Nursing Research Statistics	2	50 College level qualifying exam, minimum passing Marks 50%		050
Practicals					
4.	Community Health Nursing		50	50	100
5.	Mental Health Nursing		50	50	100
6.	** Introduction to Nursing Research Statistics		50 (Research Project) College level qualifying exam, minimum passing Marks 50%		050

Note: **** College level qualifying exam to appear in University Examination, minimum passing Marks 50%. (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/clinicals in each clinical area is essential before award of degree.
3. 100 % attendance in practical / clinicals 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. Examination in the 'English' subject of 1st year P.B.B.Sc. Nursing course will be a college level Internal Assessment Qualifying Examination with minimum passing of 33% Marks. Student who fails or student who secures less than 33% Marks in the 'English' subject will not become eligible to appear in any subject of the University's final examination. Marks of 'English' subject are to be send to the University along with Internal Assessment Marks of other subjects for inclusion in the Mark Sheet.
6. Examination in the 'Introduction to Nursing Research and Statistics' subject of 2nd year P.B.B.Sc. Nursing course will be a college level Internal Assessment Qualifying Examination with minimum passing of 50% Marks. Student who fails or student who secure less than 50% Marks each i.e. independently in the Internal Assessment (Theory) Head and independently in the Internal Assessment (Practical) Head of the 'Introduction to Nursing Research and Statistics' subject will not become eligible to appear in any subject of the University's final examination. Marks of 'Introduction to Nursing Research and Statistics' subject are to be send to the University along with Internal Assessment Marks of other subjects for inclusion in the Mark Sheet.

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES,
NASHIK**

**IST YEAR
POST BASIC B.Sc NURSING
SYLLABUS
2005-2006**

NURSING FOUNDATION

Placement: Ist Year

**Time Allotted: Theory : 45 Hrs
Practical : 30 Hrs**

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

COURSE CONTENTS :

UNIT I	DEVELOPMENT OF NURSING AS A PROFESSION	6 hrs
	<ul style="list-style-type: none">- 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 nurses.	
UNIT II	CONCEPTS OF HEALTH & ILLNESS	12 hrs
	<ul style="list-style-type: none">- Concepts of health and illness, effects on the person- Stress and adaptation- Health care concepts and nursing care concept- Developmental concepts, needs, roles and problems of the developmental stages of individual – newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age.	

UNIT III	THEORY OF NURSING PRACTICE	5 hrs
-	Meta paradigm of nursing – characterized by four central concepts i.e. Nurse, Person (client/patient). Health and Environment. Nursing Theory;	
-	Florence Nightingale	
-	Virginia Henderson	
-	Betty Neumen	
-	Dorothea Orem	
-	Martha Rogers etc.	
UNIT IV	NURSING PROCESS	10 hrs
-	Nursing Process	
-	Nursing diagnosis – Definitions, concepts, statements, types, interpretation	
-	Planning: techniques for planning care, types of care plans.	
-	Implementation: different approaches to care, organisations and implementation of care, recording.	
-	Evaluation: tools for evaluation, process of evaluation.	
UNIT V	QUALITY ASSURANCE	6 hrs
-	Quality assurance: nursing standards, nursing audit, total quality management	
-	Role of council and professional bodies in maintenance of standards.	
UNIT VI	APPROACHES TO HEALTH CARE	6 hrs
-	Primary health care concepts:	
-	community oriented nursing	
-	holistic nursing	
-	primary nursing	
-	family oriented nursing concepts:	
-	Problem oriented nursing	
-	Progressive patient care	
-	Team nursing	
PRACTICUM :	Teaching Learning Activities -	30 Hrs.
	Nursing process application.	
-	Select one patient and write nursing care plan.	20 Hrs.
-	Select one client from OPD / Community / Peer Group and write nursing care plan.	10 Hrs.

EVALUATION:

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
1.	Nursing Foundation Theory	2	15	35	050

Internal Assessment: 15 Marks

(Out of 15 Marks to be send to the University)

Mid-Term: 25 Marks

Prelim: 35 Marks

Total: 60 Marks

(60 Marks from mid-term & prelim (Theory) to be converted into 15 Marks)

External Assessment (Theory): 35 Marks
(University Examination)

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 Witler Dugas : Introduction to patient care ; 4th ed., Saunders, 2002
5. White, Lois: Foundations of nursing caring for the whole person; U.S.A. Delmer Thompson Learning,
6. Luckmann, J & Sorensen, K.C.: Basic nursing: a psychophysiologic approach ; 3rd ed., W. B. Saunders, 2002
7. Park, J.E. :Text book of preventive and social medicine ; 17th ed., Banarasidas Bhanot, 2003

NUTRITION & DIETETICS

Placement: Ist Year

Time Allotted Theory : 30 Hrs.

Practical : 15 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 students 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.

COURSE CONTENTS :

UNIT I INTRODUCTION TO NUTRITION AND DIETETICS 8 Hrs

- 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 & macro

UNIT II INFANT AND CHILD NUTRITION 8 Hrs

- Feeding of normal 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.
- Feeding the sick child. Diet in diseases of infancy and childhood.
- Deficiency – malnutrition, under nutrition, other nutrients deficiency.
- Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding.

UNIT III INTRODUCTION TO DIET THERAPY 8 Hrs

- Introduction
- Routine hospital diets.
- Therapeutic diet under each unit i.e. Cardiovascular diseases, Gastrointestinal diseases, Renal disorders, Endocrine and metabolic disorders,
- Allergy, Infections and fevers,
- Pre and post operative stage,
- Deficiency diseases and malnutrition, overweight and underweight

UNIT IV COMMUNITY NUTRITION**6 Hrs**

- Need for community nutrition programme.
- Nutritional needs for special groups: infant, child, adolescent,
- Pregnant and 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 (mid day meal etc.)

PRACTICUM :

- I Methods of cooking and cookery rules.
1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat, multipurpose food snacks.
 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.

EVALUATION :

Paper	Subject Nutrition & Dietetics	Duration	Internal Assessment	External Assessment	Total Marks
2.	Theory	2	15	35	050

Internal Assessment: 15 Marks

(Out of 15 Marks to be send to the University.)

Mid-Term: 25 Marks

Prelim: 35 Marks

Total: 60 Marks

(60 Marks from mid-term & prelim (Theory) to be converted into 15 Marks)

**External Assessment (Theory): 35 Marks
(University Examination)****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.

BIOCHEMISTRY & BIOPHYSICS

SECTION – A

BIOCHEMISTRY

Placement: 1st Year

Time Allotted Theory : 30 Hrs
Practical :

COURSE DESCRIPTION :

The broad goal of teaching Biochemistry to Nursing students is to enable them to understand, the chemical processes taking place in the human body in health and disease. This will help them to increase the quality of patient care.

OBJECTIVES : At the end of the course, the students will

1. Identify the basic principles of Biochemistry
2. Understand and grasp the basic outline of chemistry and properties of important biomolecules like glucose, urea, etc
3. Summarize the working of enzymes and their importance as diagnostic tools for the clinician.
4. Describe the mechanisms involved in maintenance of body fluids along with electrolytes.
5. Be able to understand the concepts of laboratory medicine, which involves learning about physiological levels of important biomolecules and the underlying cause of change in these levels in disease states.

COURSE CONTENTS

UNIT I	INTRODUCTION	2 hrs
-	Introduction: importance of Biochemistry in Nursing	
-	Study of cell and its various components	
UNIT II	WATER AND ELECTROLYTES	2 hrs
-	Distribution of water and its functions in human body (ECF & ICF)	
-	Water & Fluid balance	
-	Electrolyte Distribution and its functions in body	
-	Dehydration causes and consequences	
-	Electrolyte imbalance – causes, hypo and hypernatremia and kalemia	
UNIT III	ENZYMES	05 hrs
-	Definition and Mechanism of action	
-	Factors affecting enzyme activities	
-	Enzymes in clinical diagnosis and its applications	
-	Precautions for handling specimens for enzymes estimation	
-	Digestion and Absorption of carbohydrates, proteins and lipids.	
-	Factors influencing the digestion and absorption	
-	Mal absorption syndrome	

- UNIT IV CARBOHYDRATES 05 hrs**
- Elementary outline of Electron transport chain (ETC) and Biological Oxidation
 - Elementary consideration of Mono, di and polysaccharides
 - Fate of glucose in the body including-gluconeogenesis, glycogenesis, glycolysis, glycogenolysis. Storage of glucose.
 - Outline and Importance of TCA Cycle (Kreb's cycle)
 - Regulation of blood glucose levels. Glucose Tolerance test (GTT) Hyperglycemia, Hypoglycemia.
- UNIT V PROTEINS – AMINO ACIDS & HARMONES 05 hrs**
- Protein Chemistry
 - Essential amino acids, properties and functions
 - Important polypeptides
 - Plasma Proteins and their functions
 - Nucleic acids- DNA, RNA
 - Biosynthesis of proteins in the cells and Role of nucleic acids in protein synthesis
 - Nitrogenous constituents of Urine, blood their origin Urea cycle and Nitrogen balance. Uric Acid formation, gout.
- UNIT VI LIPIDS 06 hrs**
- Biological Importance of important lipids and their functions
 - Cholesterol and Lipoproteins
 - Sources occurrence and distribution
 - Blood levels and Metabolism
 - Biosynthesis of fats and storage of fats (B-oxidation)
 - Role of liver in fat metabolism Fatty liver, its causes and prevention
 - Goal of lipid metabolism in Atherosclerosis and Heart diseases
 - Ketone body formation and its utilization.
 - Causes and detection of ketosis
- UNIT VII INTER-RELATIONSHIP IN METABOLISM 05 hrs**
- Carbohydrates, Lipids, a Protein, minerals metabolism
 - Nutrition calorie value of food, BMR, SDA, Balance Diet

REFERENCES

1. Anthikad, 'J' : Biochemistry for nurses ;New Delhi : Jaypee Brothers
2. Dandekar S.P. : Medical biochemistry (based on MCI guidelines) ;New Delhi : Jaypee Brothers
3. Das, Debajyoti : Biochemistry; New ed.; Calcutta, Academic publishers
4. Hodkinson M: Clinical biochemistry of the elderly; London: Churchill Livingstone, 1984
5. Malhotra, V. : Biochemistry for students; New Delhi: Jaypee Brothers, 1985
6. Nath, R.L.: Practice of biochemistry in clinical medicine, 1976
7. U Satyanarayana : Biochemistry; Books and Allied Ltd.
8. Eastham Duncan Robert: Biochemical values in clinical medicine; 8th ed.: John Cought and Sons Ltd., 1977

SECTION – B

BIOPHYSICS

Placement: Ist Year

**Time Allotted Theory : 30 Hrs
Practical :**

COURSE DESCRIPTION :

The broad goal of teaching Biophysics to nursing students is to enable them to understand the application of physics principles while providing nursing care to the patients.

COURSE CONTENTS :

UNIT I	INTRODUCTION	2 hrs
-	Introduction: Concepts of unit and measurements Fundamental and derived units	
-	Unit length, weight, mass, time.	
UNIT II	MOTION	2 hrs
-	Vector and scalar motion, speed, velocity and acceleration	
-	Newton's law of motion	
UNIT III	GRAVITY	3 hrs
-	Gravity: Specific gravity , centre of gravity, principles of gravity.	
-	Effect of gravitational forces on human body.	
-	Application of principles of gravity in nursing	
UNIT IV	FORCE WORK & ENERGIES	3 hrs
-	Force, work, Energy: Their units of measurement.	
-	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.	
UNIT V	HEAT	3 hrs
-	Heat : Nature, measurement, transfer of heat	
-	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	

UNIT VI	LIGHT	3 hrs
	<ul style="list-style-type: none"> - Light: Laws of reflection - 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 	
UNIT VII	PRESSURES	3 hrs
	<ul style="list-style-type: none"> - Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure - Measurements of pressures in the body <ul style="list-style-type: none"> - Arterial and venous blood pressures - Ocular pressure - Intracranial pressure - applications of these principles in nursing 	
UNIT VIII	SOUND	2 hrs
	<ul style="list-style-type: none"> - Sound: Frequency, Velocity and Intensity - Vocalisation and hearing - Use of ultrasound. Noise pollution and its prevention - Application of these principles in nursing 	
UNIT IX	ELECTRICITY	5 hrs
	<ul style="list-style-type: none"> - Electricity and Electromagnetism : Name 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 	
UNIT X	NUCLEAR PHYSICS	2 hrs
	<ul style="list-style-type: none"> - 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. 	
UNIT XI	ELECTRONICS	2 hrs
	<ul style="list-style-type: none"> - Principles of Electronics: Common electronic equipments used in patient care. 	

PRACTICUM:

- Experiments and Tests should be demonstrated wherever applicable.

EVALUATION:

Paper	Subject Biochemistry & Biophysics	Duration	Internal Assessment	External Assessment	Total Marks
3.	Theory	3	25	75	100

Internal Assessment: 25 Marks
(Out of 25 Marks to be send to the University)

	Section - A Biochemistry	Section – B Biophysics	Total Marks
Mid-Term	25	25	--
Prelim	37	38	--
Total	62	63	125
Average out of	13	12	25

(62 Marks from Biochemistry (mid-term & prelim) to be converted into 13 Marks and 63 Marks from Biophysics (mid-term & prelim) to be converted into 12 Marks)

External Assessment (Theory): 75 Marks
(University Examination)

Section A: Biochemistry: 37 Marks

Section B: Biophysics: 38 Marks

Total Marks: 75 Marks

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) 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.

PSYCHOLOGY

Placement: Ist Year

**Time Allotted Theory : 60 Hrs
Practical : 15 Hrs**

COURSE DESCRIPTION :

This course is designed to orient students with regards to psychological principles, and widen their knowledge of the fundamentals of psychology. The course offers students an opportunity to understand the psychodynamics of patient behavior and to apply theoretical concepts in practical settings.

OBJECTIVES : The course aims towards the developing students skills in –

- Understanding herself and others
- Analysing her own thought and behavior patterns
- Using psychological principles to improve her efficiency in nursing care
- Applying psychological principles while performing nursing duties
- Distinguishing psychological processes during health and sickness
- Planning nursing care with regards to psychological needs and concerns
- Participating in psychological assessment of patients

COURSE CONTENTS

UNIT I	INTRODUCTION TO PSYCHOLOGY	3 hrs
	<ul style="list-style-type: none">- Definition, history and scope- Branches and methods- Relationship with other subjects- Psychology and the student nurse- Habits and skills	
UNIT II	SENSATION, ATTENTION AND PERCEPTION	6 hrs
	<ul style="list-style-type: none">- Sensation – Definition and sensory processes- Problems in sensation- Attention – Definition, characteristics and types- Factors affecting attention- Distraction and sustaining attention- Perception – Definition and characteristics- Perception of form, depth and movement- Types and difficulties in perception- Problems and nursing care	
UNIT III	LEARNING	5 hrs
	<ul style="list-style-type: none">- Definition, nature and conditioning theories- Learning process, laws and types and factors- Learning during health and sickness	

UNIT IV	MEMORY AND FORGETTING	5 hrs
	<ul style="list-style-type: none"> - Memory – Definition and nature - Memory models and factors affecting memory - Methods to improve memory - Forgetting – Definition, explanation of forgetting - Memory during health and sickness - Forgetting during health and sickness 	
UNIT V	MOTIVATION	6 hrs
	<ul style="list-style-type: none"> - Definition, nature and theories - Needs and motives – Biological and social - Frustration and conflicts - Types of conflicts - Self actualization - Application in nursing care 	
UNIT VI	EMOTION	5 hrs
	<ul style="list-style-type: none"> - Definition and meaning, theories - Expressions and perceptions - Emotions in sickness, nursing care 	
UNIT VII	ATTITUDES	5 hrs
	<ul style="list-style-type: none"> - Definition and nature, theories - Factors influencing attitude formation - Role of attitudes in health and sickness 	
UNIT VIII	INTELLIGENCE AND ABILITIES	6 hrs
	<ul style="list-style-type: none"> - Definitions and nature, theories - Psychological testing and measurement - Mental retardation and IQ - Intelligence and abilities during sickness 	
UNIT IX	PERSONALITY	7 hrs
	<ul style="list-style-type: none"> - Definition, nature, factors influencing personality - Theories of personality development - Defence mechanism - Psychological problems - Personality disorders and nursing 	
UNIT X	INDIVIDUAL DIFFERENCE	4 hrs
	<ul style="list-style-type: none"> - Definition and significance - Heredity and environment - Role in health and sickness - Implications in nursing 	

UNIT XI PSYCHOLOGICAL ASPECTS OF NURSING 5 hrs

- Behaviour during sickness
- Understanding the client
- Psychological approach in nursing care
- Psychological needs of child, adolescent, adult, aged
Chronically ill and attendants

UNIT XII MENTAL HYGIENE 3 hrs

- Concepts and meaning of mental hygiene
- Characteristics of a mentally healthy person
- Factors influencing mental health

All theory topic lectures will be covered through interactive sessions with students.

PRACTICUM :

A 3 Experiments 9 hrs

- Attention
- Memory
- Learning

B 2 Psychological Tests (Rating Scales) 4 hrs

- Hardiness
- Positive Thinking

C Case Study 2 hrs

Discussion of a case with identification of expressed emotions, psychological needs, sources of conflict and attitudes expressed

Practicum will be recorded in a journal and will be scored as part of internal Assessment.

EVALUATION :

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
4.	Theory	3	25	75	100

Internal Assessment:

Theory: 15 Marks

Practicum Assignment: 10 Marks

Total: 25 Marks

(Out of 25 Marks to be send to the University)

Mid-Term: 50 Marks

Prelim: 75 Marks

Total: 125 Marks

(125 Marks from mid-term & prelim (Theory) to be converted into 15 Marks)

Practicum Assignments: 10 Marks

External Assessment: 75 Marks

(University Examination)

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 : Moghe Prakashan
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.,

MICROBIOLOGY

Placement: 1st 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 : After the course the students will develop

1. Identify common disease causing organisms
2. Basic principles of Microbiology & its significance in health & disease
3. Handling of infective specimens
4. Various methods of sterilization & disinfection
5. Role of nurse in hospital infection control system.

COURSE CONTENTS :

UNIT I	INTRODUCTION	3 hrs
	<ul style="list-style-type: none">- General Microbiology : History, (Fracostoriues of Verona to the Latest Nobe Laureates short note on Pasteur and Koch) and Introduction (Why to study the subject?)- Microscope (Types – dissecting to Electron measuring scale upto nanometer)	
UNIT II	GENERAL MICROBIOLOGY	3 hrs
	<ul style="list-style-type: none">- Morphology and Physiology (Size, Shape, struct., spore, flagella, capsule)- Staining (demonstration) Gram's + Z N's + Motility	
UNIT III	BACTERIAL GROWTH REQUIREMENT	5 hrs
	<ul style="list-style-type: none">- Growth requirement of Bacteria + Bacteria growth curve- Cultural media different- Collection processing of sample and bacteria	
UNIT IV	STERILIZATION & DISINFECTION	5 hrs
	<ul style="list-style-type: none">- Sterilization + Disinfections- Sterilization demo of instruments, Different disinfectants dilute- Hospital infection control Biosafety + Fumigation and role of nurse- Bacterial genetics (emphasis to drug resistance) Host parasite relationship	

UNIT V	SYSTEMIC BACTERIOLOGY	10 hrs
	(Morpho, growth requirements, diseases caused vaccine epideo)	
	- Pyogenic cocci causing diseases Staphylococci	
	- Streptococci and Pneumococci and Neisseria	
	- Salmonella + Shigella	
	- E coli diarrhea + Cholera + Pseudomonas	
	- C. diptheria + Chlamydia	
	- Anaerobes intro. + C. welchii	
	- C. tetani + nonsporing anaerobes mention diseases	
	- Tuberculosis	
	- Leprosy + Aty	
	- Spirocheate + Leptospira	
	- Chlamydia	
	- Demo different morphology of bacteria G + C, G + B, GNC, GNB	
	- Demo of organism Spore, Capsule, fungi, AFB	
UNIT VI	SYSTEMIC MYCOLOGY	5 hrs
	- Fungi intro., Dermatophytes	
	- Mycetophytes	
	- Mycetoma, Rhino, Crypto	
	- Candida and Lab. Diagnosis of fungal infections	
UNIT VII	IMMUNOLOGY	5 hrs
	- Immunity	
	- Antigen	
	- Antibody	
	- Ag X Ab reaction sererogical	
	- Immune Response	
	- Hypersensitivity	
UNIT VIII	SYSTEMATIC PARASITOLOGY	10 hrs
	- Intro classification and some terms	
	- Amoeba + Giardia	
	- Trichomonas + Leishmania	
	- Malaria + Toxoplasma	
	- Cestodes (Taenia sodium and saginata E. granuloses)	
	- Intestinal Nematodes	
	- Tissue Nematodes	
	- Vectors	
	- Diff. Parasites and vectors stool preparation demo	
UNIT IX	SYSTEMATIC VIROLOGY	8 hrs
	- Gen. Prop. Cultivation classification	
	- Herpes virus	
	- Picorna virus	

- Measles, Mumps, Chicken pox
- Ortho and Arbo (Dengue)
- Rhabdo virus
- Hepatitis virus
- HIV and AIDS

UNIT X CLINICAL MICROBIOLOGY

6 hrs

- PUO, UTI, STD, Wound infection
- Micro – organism transmitted through food
- Food poisoning, food born infection

PRACTICUM :

- Each student will practice in 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, immunisation, chemotherapy and maintenance of personal and environmental hygiene. Observation visit to incinerator, posting in CSSD and infection control department.

EVALUATION :

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
	Microbiology				
5.	Theory	3	25	75	100

Internal Assessment:

Theory: 15 Marks

Journal Assignment: 10 Marks

Total: 25 Marks

(Out of 25 Marks to be send to the University)

Mid-Term: 50 Marks

Prelim: 75 Marks

Total: 125 Marks

(125 Marks from mid-term & prelim (Theory) to be converted into 15 Marks)

Journal Assignments: 10 Marks

External Assessment (Theory): 75 Marks

(University Examination

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.

MATERNAL NURSING

Placement: Ist Year

**Time Allotted Theory : 60 Hrs
Practical : 240**

COURSE DESCRIPTION :

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

OBJECTIVES : At the end of the course, the student will be able to :

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. Provide 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.

COURSE CONTENT

UNIT I	INTRODUCTION AND HISTORICAL REVIEW	5 hrs.
-	(a) Early history of midwifery and evolution of obstetrics Maternity care and practices in various culture across the world. Expanded role of the nurse in maternity and gynaecology.	
-	(b) Safe motherhood initiative Maternal mortality, morbidity and perinatal mortality. Legislation related to maternal benefits, MTP acts, incentives and Family planning. Family welfare programme.	
UNIT II	ANATOMY AND PHYSIOLOGY OF FEMALE REPRODUCTIVE SYSTEM	6 hrs.
-	Review of anatomy and physiology of female reproductive system.	
-	Female pelvis and foetal skull.	
-	Menstrual cycle	
-	Human reproduction, gametogenesis, fertilization, embryo.	
-	Placenta, foetal membrane, liquor amnii, umbilical	
-	The foetus, foetal growth, foetal physiology, foetal circulation.	

UNIT III	NORMAL PREGNANCY	8 hrs.
	<ul style="list-style-type: none"> - Physiological changes during pregnancy - Diagnosis of pregnancy and antenatal care - Antenatal assessment of foetal well being. - Physiology of normal labour - Mechanism of normal labour. - Management of I, II, and III stages of labour. - Physiology of puerperium. - Physiology of lactation and breast feeding - Management of normal puerperium 	
UNIT IV	NEW BORN BABY	6 hrs.
	<ul style="list-style-type: none"> - Resuscitation and immediate care of newborn.including SGA & LGA - Normal characteristics and essential care of newborn. - Asphyxia Neonatarum, respiratory distress - Jaundice in newborn - Birth injuries, congenital anomalies, infection in newborn, and vomiting in newborn. - Still birth – incidence, causes and prevention. - Care of low birth weight babies in labour room and nursery / NICU. 	
UNIT V	MEDICAL DISORDERS IN PREGNANCY	5 hrs.
	<ul style="list-style-type: none"> - Hypertensive disorders – Pregnancy induced hypertension, Eclampsia. - Anaemia in pregnancy - Diabetes mellitus in pregnancy - Heart diseases - Renal disorders in pregnancy - Jaundice in pregnancy - Pulmonary TB - Pregnancy with STD, HIV / AIDS. 	
UNIT VI	HIGH RISK PREGNANCY	10 hrs.
	<ul style="list-style-type: none"> - Abortion - Hydatiform mole - Ectopic pregnancy - Medical termination of pregnancy - Antepartum haemorrhage – Placenta previa, Abruption placenta - Vomiting in pregnancy - Pregnancy in Rh negative women - Multiple pregnancy, hydramnios - Preterm labour - Premature rupture of membrane 	

	<ul style="list-style-type: none"> - IUGR, postdatism - Pregnancy with previous caesarean section - Fibroid with pregnancy - Ovarian tumour with pregnancy 	
UNIT VII	HIGH RISK LABOUR	3 hrs.
	<ul style="list-style-type: none"> - Abnormal presentation – Unstable lie, Occipitoposterior, face and brow presentation - Breech presentation, compound presentation - Abnormal uterine action in labour and active management of labour - Contracted pelvis and CPD - Obstructed labour, rupture of uterus, injuries of maternal birth canal, cord prolapse. 	
UNIT VIII	ABNORMALITIES OF PUERPERIUM	4 hrs.
	<ul style="list-style-type: none"> - Puerperial pyrexia and sepsis - Post partum haemorrhage - Breast complications – Breast engorgement, breast abscess, acute mastitis - Psychiatric disorders in puerperium 	
UNIT IX	OBSTETRICAL EMERGENCIES & OPERATIVE OBSTETRICS	3 hrs.
	<ul style="list-style-type: none"> - Uterine rupture, cervical tear - D & E , S & E - Use of instruments – Ephesiotomy Forcep, Vacuum - Caesarean section 	
UNIT X	PHARMACOTHERAPEUTICS	2 hrs.
	<ul style="list-style-type: none"> - Oxytocics, Prostaglandins – use in obstetrics - Anaesthesia and analgesics used in obstetrics 	
UNIT XI	SPECIAL INVESTIGATIONS IN OBSTETRICS	2 hrs.
	<ul style="list-style-type: none"> - USG, NST, CTG - Radiography 	
UNIT XII	CURRENT TRENDS IN REPRODUCTIVE HEALTH(RCH)	4 hrs.
	<ul style="list-style-type: none"> - Infertility, genetic counseling - Unwanted pregnancy - Unwed mother - Advances in obstetrics and maternity care. 	
UNIT XIII	GYNAECOLOGICAL NURSING	4 hrs.
	<ul style="list-style-type: none"> - Common Gynaecological Problems 	

2. Preliminary Exam:	050 Marks
3. Clinical Evaluation & Clinical Assignment:	500 Marks
i) Case study: Two (50marks each):	100 Marks
ii) Case presentation: One:	050 Marks
iii) Clinical evaluation (100 marks each):	300 Marks
ANC/ LABOUR ROOM/ PNC	
iv) Group Health teaching (One):	025 Marks
v) Nursing care Plan (Gyanae: One):	025 Marks
Total Marks:	600 Marks
(600 Marks from Practical to be converted into 50 Marks for Internal Assessment (Practical))	

External Assessment (Theory): 75 Marks (University Examination)
External Assessment (Practical): 50 Marks (University Examination)

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 Elseiver India.
4. S S Ratnam, K Bhasker Rao and S Arulkumaran, 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.

CHILD HEALTH NURSING

Placement: Ist Year

**Time Allotted Theory : 60hrs
Practical : 240hrs**

COURSE DESCRIPTION :

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

OBJECTIVES : At the end of the course, the students will be able to:-

1. Explain the modern concept of child care and the principles of child health nursing.
2. Describe the normal growth and development of children in various age groups.
3. Explain the physiological response of body to disease conditions in children.
4. Identify the health needs and problems of neonates and children, plan and implement appropriate nursing interventions.
5. Identify the various preventive, promotive and rehabilitative aspects of child care and apply them in providing nursing care to children in the hospital and in the community.

COURSE CONTENT

UNIT I	INTRODUCTION TO CHILD HEALTH NURSING	8 hrs.
-	Modern concept of child care Internationally accepted rights of the child.	
-	Changing trends in hospital care, preventive, promotive and curative aspects of child health Child morbidity and mortality rates	
-	National policy and legislation's in relation to child health and welfare.	
-	National programmes related to child health and welfare.	
-	Differences between adult and child	
-	Hospital environment for a sick child and role of a paediatric nurse in caring for the hospitalized child	
-	Principles of pre and post operative care of infants and children	
-	Paediatric nursing procedures Prepn of child for diagnostic tests, collection of specimens, calculation and administration of oral and parenteral medication, feeding, adm of oxygen, nebulisation ,collection of specimens ,exchange transfusion, restraints	
UNIT II	THE HEALTHY CHILD	12 hrs.
-	Growth & development ---. Principles & factors affecting growth & development.	
-	Assessment of growth and development	

- Growth & development from birth to adolescence, needs of normal children through stages of development and parental guidance.
- Nutritional needs of infants and children principles of paediatric nutrition
 - Breast feeding
 - Artificial feeding & Weaning
- Infancy ,toddler, pre schooler, school age child and adolescents.
- Role of play in children - Need, importance and value of play, selection of play material and nurse's role.
- Preventive immunization

UNIT III CARE OF THE NEWBORN. 4 hrs.

- Characteristics and care of a newborn.
- Asphyxia neonatorum & neonatal resuscitation.
- Low birth weight infants
- Nursing management of common neonatal disorders.
 - Neonatal jaundice & photo therapy
 - Neonatal sepsis & hypoglycemia
 - Organization of Neonatal units, Prevention & Control of infection
 - Critical care concept in child health

UNIT IV NURSING MANAGEMENT OF COMMON CHILDHOOD ILLNESS. 32 hrs.

- (a) **Nutritional deficiency disorders.**
 - Protein energy malnutrition
 - Vitamin deficiency disorders (Rickets, scurvy, Vit A deficiency disorders)
- (b) **Respiratory diseases & disorders .**
 - Acute bronchitis & Bronchiolitis
 - Pneumonia
 - Branchial Asthama
- (c) **Disorders of the gastro-intestinal system.**
 - Acute gastroenteritis
 - Tracheo esophageal fistula
 - Cleft lip and palate
 - Hypertrophic Pyloric Stenosis
 - Hirschsprung's disease & Intestinal Obstruction
 - Anorectal anomalies
- (d) **Cardiovascular system**
 - Rheumatic fever
 - Congenital heart diseases
 - Congestive cardiac failure
- (e) **Disorders of Genito urinary System**
 - Acute glomerulo nephritis
 - Nephrotic Syndrome
 - Wilm's tumour & Congenital disorders
- (f) **Neurological disorders**
 - Convulsions in children & Epilepsy

- Meningitis & Encephalitis
- Hydrocephalus, Meningocele and meningocele
- (g) **Haematological disorders**
 - Anaemia & Thalassemia
 - Idiopathic thrombocytic Purpura & Hemophilia
 - Leukaemia
- (h) **Endocrine Disorders**
 - Juvenile Diabetes Mellitus
- (i) **Orthopaedic Disorders**
 - CTEV (Club foot) , Congenital hip dislocation
 - Fractures
- (j) **Disorders of Skin, Eye & ENT**
 - Skin** : Eczema, urticaria, scabies, pediculosis, worm infestations
 - Eye & ENT** : Tonsillitis, Deafness, Otorrhoea, Otitis Media, Cong Cataract, hypertelorism
- (k) **Communicable Diseases in Children**
 - Measles/rubella, Chicken pox
 - Diphtheria, whooping cough
 - Tetanus, Poliomyelitis
 - AIDS
 - Tuberculosis
- (m) **Paediatric Emergencies**
 - Accidents, Poisoning ,Stings & Bites
 - Foreign bodies, Haemorrhage & Drowning Burns

**UNIT V MANAGEMENT OF BEHAVIOURAL PROBLEMS
IN CHILDREN CHILDHOOD ILLNESS.**

04 hrs.

- Enuresis, Encoprecis, temper tantrums somnambulism, juvenile delinquency, speech defects, tics, pica, antisocial behaviour
- **Management of challenged children**
Need for early diagnosis ,treatment and rehabilitation of Mentally challenged – Mental retardation
- Physically challenged – Cerebral palsy
Socially challenged – Child abuse & child labour

PRACTICUM

The students 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/creche.
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 :
 - 7.1. Taking pediatric history

- 7.2. Physical assessment of children
- 7.3. Baby bath
- 7.4. Feeding – spoon & vati, nezogastric feeding.
- 7.5. Restraining
- 7.6. Calculation of dosage of drugs and administration of medications and injections & Intra Venous Infusion.
- 7.7. Collection of specimens
- 7.8. Enema. bowel wash. colostomy irrigation
- 7.9. Steam and Oxygen inhalation
- 7.10. Preparation to assist with diagnostic tests and operations
- 7.11. Examination/Assessment of a newborn
- 7.12. Neonatal resuscitation
- 7.13. Care of a baby in incubator and on ventilator
- 7.14. Photo therapy
- 7.15. Assist in exchange transfusion and other therapeutic procedures

CLINICAL EXPERIENCE :

Total Hours : 240

- Pediatric Medical **hours : 60**
- Pediatric Surgical **hours : 60**
- Intensive Pediatric Critical Unit **hours : 30**
- NICU **hours : 30**
- OPDs including (CWC, CGC) **hours : 30**
- Visits – (various agencies: i.e., crèches, schools, nursery, Special schools & handicapped, etc.) **hours : 30**

EVALUATION :

Paper	Subject	Duration	Internal Assessment	External Assessment	Total Marks
7.	Child Health Nursing Theory	3	25	75	100
2.	Practical		50	50	100

Internal Assessment:

Theory: 25 Marks
Practical: 50 Marks
Total: 75 Marks

Details as follows:

Internal Assessment (Theory): 25 Marks
 (Out of 25 Marks to be send to the University)

Mid-Term: 50 Marks
 Prelim: 75 Marks
 Total: 125 Marks

(125 Marks from mid-term & prelim (Theory) to be converted into 25 Marks)

Internal assessment (Practicum): 50 Marks
 (Out of 50 Marks to be send to the University)

Practical Exam

1) Mid-Term exam

050 Marks

2) Prelim	050 Marks
3) Clinical Evaluation & Clinical Assignment:	500 Marks
i) Case study (two): (One Paediatric Medical & One paediatric surgical-50 marks each)	100 Marks
ii) Case presentation (one)	050 Marks
iii) Clinical evaluation of compressive nursing care- (One paediatric medical, One paediatric surgical & One NICU-100 Marks each)	300 Marks
iv) Health teaching	025 Marks
v) Assessment of growth and development (Preterm baby, Infant, Toddler, Preschooler, and schoolar (Marks 20 each).	100 Marks
Total:	675 Marks
(675 Marks from Practicum to be converted into 50 Marks)	

External Assessment: 125 Marks
(University Exam)

Theory:	75 Marks
Practical:	50 Marks
Total:	125 Marks

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.

MEDICAL –SURGICAL NURSING

Placement : Ist Year.

Allotted Theory: 90hrs.

Practical: 270hrs.

COURSE DESCRIPTION :

The purpose of this course is to widen the students' knowledge and develop proficiency in caring for patients with Medical Surgical problems. This course includes review of relevant anatomy & physiology, pathophysiology in Medical Surgical disorders & the nursing management of these conditions.

OBJECTIVES : At the end of the course, the F.Y.B.Sc. Nursing students will-

1. explain relevant Anatomy & Physiology of various systems of the body.
2. explain etiology, pathophysiology & manifestations of various disorders.
3. explain the actions, side-effects & nursing implications in administering drugs for various disorders.
4. discuss the recent advancement in the investigations, treatment & 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 & their families in identifying & meeting their own health needs.
7. provide planned & incidental health education on various aspects related to disorder & relevant care.
8. appreciate the role of the nurse in the Medical Surgical health team.

COURSE CONTENTS :

UNIT I INTRODUCTION TO MEDICAL SURGICAL NURSING 4 hrs

- Introduction to medical surgical nursing.
- Review of concepts of comprehensive nursing care in medical surgical conditions.
- Nurse, patient & his/her family
- Functions of nurse in the outpatient department.
- Intensive care units. * Staff requirement. Client's needs & nsg. care.

UNIT II NURSING MANAGEMENT OF PATIENTS WITH SPECIFIC PROBLEMS 10 hrs

- Fluid & electrolyte imbalance.
- Dyspnoea, cough & respiratory obstruction.
- Fever & nursing care.
- Shock & nursing care.
- Unconsciousness & nursing care.
- Pain perception & nursing care.

- Acute & chronic illness & nursing care.
- Terminal illness & nursing care.
- Ageing & illness & nursing care.
- Pre & post-operative care.
- Nursing care of clients with incontinence.

UNIT III NURSING MANAGEMENT OF PATIENT WITH NEUROLOGICAL & NEURO-SURGICAL CONDITIONS. 08 hrs.

- Review of anatomy & physiology of the nervous system & assessment of clients with CNS disorders.
- Pathophysiology, diagnostic procedures & management of :
 - cerebro-vascular accident & nursing care.
 - cranial, spinal & peripheral neuropathies & nursing care.
 - headache & intractable pain & nursing care.
 - epilepsy & nursing care.
 - nursing care of clients with infectious & inflammatory diseases & trauma of the nervous system.
 - nursing care of clients with common CNS disorders.
 - recent advances in diagnostic & treatment modalities & drugs used in CNS disorders.
 - brain, spinal tumours, congenital malformations, degenerative disorders.

UNIT IV NURSING MANAGEMENT OF PATIENTS WITH CARDIO-VASCULAR PROBLEMS. 08 hrs

- Review of relevant anatomy & physiology of cardio-vascular system & assessment of clients with cardio-vascular disorders.
- Pathophysiology, diagnostic procedures & management of-
 - ischaemic heart disease.
 - cardiac arrhythmias.
 - congestive cardiac failure.
 - rheumatic & other valvular heart diseases.
 - endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block.
 - cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurisms & periphoro-vascular disorders, recent advancement in cardiology.

UNIT V NURSING MANAGEMENT OF PATIENT WITH RESPIRATORY PROBLEMS. 06 hrs

- Review of anatomy & physiology of respiratory system & assessment of clients with respiratory disorders.
- Pathophysiology, diagnostic procedures and management of upper and lower respiratory track infection
 - Bronchitis, bronchiectasis & nursing care.
 - Asthama, emphysema, empyema, atelectasis, COPD and nursing care.

- Chest injuries, resp. arrest & insufficiency
- Special respiratory therapies & drugs used in the management.

UNIT VI NURSING MANAGEMENT OF CLIENTS WITH GENITO-URINARY PROBLEMS. 05 hrs.

- Review of anatomy & physiology of the genito-urinary system & assessment of clients with genito-urinary problems.
- Pathophysiology & management of-
 - congenital disorders, urinary infections.
 - nephritis, renal calculi.
 - acute renal failure, chronic renal failure, end stage renal disease.
 - special procedures : dialysis, renal transplant.
 - benign prostatic hypertrophy.
 - drugs used in the management of these patients.

UNIT VII NURSING MANAGEMENT OF CLIENTS WITH PROBLEMS OF THE DIGESTIVE SYSTEMS 10 hrs.

- Review of anatomy & physiology of gastro-intestinal system & accessory organs & assessment of clients with gastro-intestinal tract disorders.
- Pathophysiology, diagnostic procedures & management of -
 - gastro-intestinal bleeding.
 - peptic ulcer.
 - acute abdomen.
 - infections, colitis, diarrhoea, dysentery & mal-absorption syndrome.
 - cholecystitis.
 - hepatitis, hepatic coma & cirrhosis of liver, portal hypertension.
 - pancreatitis.
 - tumours, hernias, fistulas, fissures, haemorrhoids.
 - drugs used in the management of these patients.

UNIT VIII NURSING MANAGEMENT OF PATIENTS WITH ENDOCRINE PROBLEMS. 5 hrs

- Review of anatomy & physiology & assessment of clients with endocrine disorders.
- Pathophysiology, diagnostic procedures & management of -
 - thyroid disorders.
 - diabetes mellitus, diabetes insipidus.
 - adrenal tumours, pituitary disorders.
 - drugs used, diagnostic procedures & nursing management of patient with above problems.

UNIT IX NURSING MANAGEMENT OF PATIENTS WITH MUSCULO-

SKELETAL PROBLEMS.**5 hrs.**

- Review of anatomy, physiology & assessment of patients with musculo-skeletal disorders.
- Osteomalacia, osteoporosis, osteomyelitis, bursitis.
- Fractures, dislocation & trauma.
- Prolapsed disc.
- Prosthesis & rehabilitation.
- Transplant & replacement surgeries.

UNIT X NURSING MANAGEMENT OF PATIENTS WITH DISORDERS OF FEMALE REPRODUCTIVE TRACT. 3 hrs.

- Disorders of menstruation & inf. of genital tract. *Benign & malignant tumours of genital tract & RVF & VVF. * Climacteric changes & associated problems.

UNIT XI NURSING MANAGEMENT OF PATIENTS WITH ONCOLOGICAL DISORDERS. 5 hrs.

- Types of neoplasms & related pathophysiology, diagnostic procedures, modalities of treatment & nurses' role.
- Special therapies : chemotherapy & radiotherapy & nsg. care.
- Preventive measures, other therapies.

UNIT XII NURSING MANAGEMENT OF PATIENTS WITH BURNS & RECONSTRUCTIVE SURGERIES. 3 hrs.

- Pathophysiology, assessment & nursing management of patients with burns.
- Nursing management of patients with reconstructive surgeries.

UNIT XIII NURSING MANAGEMENT OF PATIENTS WITH COMMUNICABLE DISEASES, STDS & HIV/AIDS. 5 hrs.

- Nursing management of patients with common communicable diseases & STDs.
- Nursing management of patients with immunological disorders including HIV/AIDS.

UNIT XIV NURSING MANAGEMENT OF PATIENTS WITH DISEASES OF EYE,EAR,NOSE,THROAT & SKIN. 5 hrs.

- Assessment & nursing management of patients with eye disorders.
(eye injuries, cataract, inf., blindness)
- Assessment & nursing management of patient with ear disorders (deafness).
- Assessment & nursing management of patients with nose & throat disorders. (DNS, tonsillitis).

- Assessment & nursing management of patients with skin disorders.
(fungal inf., herpes, psoriasis etc)

UNIT XV NURSING MANAGEMENT OF PATIENTS WITH BLOOD DISORDERS. 5 hrs.

- Review of anatomy & physiology of blood & blood products.
- Pathophysiology, diagnostic procedures & management of blood disorders.
 - anaemia, leukaemia.
 - bleeding disorders, haemophilia, purpura etc.
 - blood transfusion, safety checks, procedure & requirements, management of adverse transfusion reaction, records for blood transfusion.
 - management & counseling of blood donors, phlebotomy procedure, & post-donation management.
 - blood bank functioning & hospital transfusion committee. Biosafety & waste management in relation to blood transfusion.

UNIT XVI NURSING IN EMERGENCIES. 3 hrs.

- Cardiac emergencies. (included in unit iv)
- Trauma.
- poisoning.
- crisis mgt :thyroid, hypertensive, & adrenal crisis included in unit viii & iv.

PRACTICUM/CLINICAL EXPERIENCES :

Total hrs. 270.

1. Medical unit	hrs.25.
2. Surgical Unit	hrs.25.
3. Cardiology Unit	hrs.30.
4. Neurology Unit	hrs.30.
5. Intensive care Unit	hrs.35.
6. Critical care Unit	hrs.35.
7. Burns Unit	hrs.15.
8. Orthopaedic Unit	hrs.15.
9. Ophthalmic Unit	hrs.10.
10. Ear, Nose Throat Unit	hrs.10.
11. Artificial Kidney Dialysis	hrs.15.
12. Oncology Unit	hrs.10.
13. Skin ward	hrs.10.
14. General OPD	hrs.05.

EVALUATION :

Paper	Subject Medical & Surgical Nursing	Duration	Internal Assessment	External Assessment	Total Marks
8.	Theory	3	25	75	100
3.	Practicals		50	50	100

Internal Assessment:

Theory:	25 Marks
Practical:	50 Marks
Total:	75 Marks

Details as follows:

Internal Assessment (Theory): 25 Marks

(Out of 25 Marks to be send to the University)

Mid-Term: 50 Marks

Prelim: 75 Marks

Total: 125 Mark

(125 Marks from mid-term & prelim (Theory) to be converted into 25 Marks)

Internal Assessment (Practical): 50 Marks

(Out of 50 Marks to be send to the University)

Practical Exam

Mid-Term Exam 050 Marks

Prelim 050 Marks

3) Clinical Evaluation & Clinical Assignment: 600 Marks

1. Case Study (Two) (50 Marks Each) 100 Marks

(One Medical & One Surgical Nursing)

2. Case Presentation (Two) (50 Marks Each) 100 Marks

(any specialty i.e., ENT/Ophthalmology/Skin/Burns.)

3. Nursing care plans (25 marks each) 100 Marks

i.e., Neurology/Orthopedic/Cardiology/Onchology.

4. Clinical Evaluation Comprehensive Nursing Care-300 Marks

(100 marks each) i.e., medical Nursing, Surgical Nursing,

Critical Care Units

Total: 700 Marks

(700 Marks from practical to be converted into 50 Marks)

External Assessment: 125 Marks (University Examination)

Theory : 75 Marks

Practical: 50 Marks

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 A phscho physiologic 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).

ENGLISH

Placement: Ist 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

COURSE CONTENTS :

UNIT I

15 hrs.

- Remedial study of Grammer
- Review of grammer, vocabulary and effective use of dictionary
- Prepare task oriented seminars
- Symposia and panel discussion

UNIT II

10 hrs.

- The ability to understand selected passage and express meaning in one's own words.
- Reading and comprehension of the prescribed books

UNIT III

20 hrs.

- The study of various forms of composition
- Note taking
- Diary
- Nurses notes, anecdotal records
- Writing of summary
- Nurses reports on health problems

The students will submit one sample of each item from her own practical experience.

UNIT IV

15 hrs.

- Verbal communication
- Oral reports
- Summarization of discussion
- Debate
- Listening comprehension – Film, Cassette and Radio

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.

EVALUATION :

Paper	Subject * English (Qualifying)	Duration	Internal Assessment	External Assessment	Total Marks
9.	Theory	--	100 College level qualifying exam, minimum passing Marks 33%.		100

*** College level qualifying exam to appear in University Examination, minimum passing Marks 33%.**

Internal Assessment: 100 Marks

(Out of 100 Marks to be send to the University along with Internal Assessment Marks of other subjects for inclusion in the Mark Sheet.)

Mid-Term: 50 Marks
Prelim: 50 Marks
Total: 100 Mark

REFERENCES :

Some extracts from the book “ How to Win Friends & Influence People” – Dale Carnegie