

**Rajiv Gandhi University of Health Sciences,
Karnataka, Bangalore**

The Emblem



The Emblem of the Rajiv Gandhi University of Health Sciences is a symbolic expression of the confluence of both Eastern and Western Health Sciences. A central wand with entwined snakes symbolises Greek and Roman Gods of Health called Hermis and Mercury is adapted as symbol of modern medical science. The pot above depicts Amrutha Kalasham of Dhanvanthri the father of all Health Sciences. The wings above it depicts Human Soul called Hamsa (Swan) in Indian philosophy. The rising Sun at the top symbolises knowledge and enlightenment. The two twigs of leaves in western philosophy symbolises Olive branches, which is an expression of Peace, Love and Harmony. In Hindu Philosophy it depicts the Vanaspathi (also called as Oushadi) held in the hands of Dhanvanthri, which are the source of all Medicines. The lamp at the bottom depicts human energy (kundalini). The script "Devahitham Yadayahu" inside the lamp is taken from Upanishath Shanthi Manthram (Bhadram Karnebhi Shrunuyanadev...), which says "May we live the full span of our lives allotted by God in perfect health" which is the motto of the Rajiv Gandhi University of Health Sciences.

RAJIV GANDHI UNIVERSITY
OF HEALTH SCIENCES

Revised Ordinance Governing
POST BASIC B.Sc. IN NURSING
Regulations and Curriculum - 2009



*RAJIV GANDHI UNIVERSITY OF
HEALTH SCIENCES KARNATAKA*

4th T Block, Jayanagar, Bangalore 560041

Revised Ordinance Governing
Post Basic B. Sc. in Nursing Course
Regulations and Curriculum

(In conformity with Indian Nursing Council,
Post Basic Bachelor of Nursing Syllabus and
Regulations, 2001 year of Revision.
(Annexure to University Notification No.
UA/ORD-8/2005-06 dated 12.09.2005

Published by :

Registrar

Rajiv Gandhi University of Health Sciences
4th T Block, Jayanagar, Bangalore - 560041.

Compiled by :

Director, Prasaranga

Rajiv Gandhi University of Health Sciences
4th T Block, Jayanagar, Bangalore - 560041.
Website: www.rguhs.ac.in

Printed in March 2005
Re-Print November, 2009

Price Rs: 125/-

Printed at :

Sri Nanjundasvara Grapiics

No. 195/A, 5th Cross, 6th Main,
Industrial Town, Rajajinagar, Bangalore - 560010.
Mobile: 9448049679

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Rajiv Gandhi University of Health Sciences, Karnataka
ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

Ref.: AUTH/Admn criteria/PC.B.Sc.(N) Course/280/2008-09

Date : 16/06/2008

NOTIFICATION

Sub: Change of Admission criteria for admission to PC. B.Sc. Nursing Course.

- Ref: 1) Revised Ordinance governing Post Basic(N) course 2005
No. ACA/Ord/8/2005-06 dated 12.9.2005.
2) RGUHS circular No. SWF/EC/PCB.Sc.(N)/87/2006. dated 26.10.2006
3) INC letter No. F.No.18-15/4025-INC dated : 17.03.2008
4) Resolutions of Academic Council dated 15th and 16th April 2008.
5) Decision of Syndicate Meeting held on 14.05.2008

In exercise of the powers conferred under section 35(2) of RGUHS Act 1994, the Syndicate in its meeting held on 14/05/2008, on the recommendations of Academic Council in its extraordinary meeting held on 15th and 16th April 2008 is pleased to approve the change of admission criteria to PC B.Sc Nursing as "The GNM Certificate Holders are eligible to take admission to PC B.Sc. Nursing directly the clause of 2 years experience after obtaining GNM Certificate.

This Ordinance comes into force from the academic year 2007-08 and onwards.

By Order,

Sd/-
REGISTRAR

To
The Principals of all the Nursing colleges conducting PC B.Sc. Nursing.

Copy to :

1. The Secretary to Governor, Governor's Secretariat, Raj Bhavan, Bangalore -560001
2. Secretary to Government, Health & Family Welfare Department, (Medical Education), Vikasa Soudha, Bangalore - 560001.
3. The Director, Department of Medical Education, Anand Rao Circle, Bangalore - 560009
4. PA to Vice-Chancellor / Registrar / Finance Officer.
5. Registrar (Eva) for kind information and necessary action.
6. Director, Curriculum Development Cell.
7. Public Information Officer.
8. The Home Page of RGUHS Website
9. Guard File / Office Copy



Rajiv Gandhi University of Health Sciences, Karnataka
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Ref.: ACA/ORD-8/2007-08

Date : 18/06/2007

NOTIFICATION

Sub: Amendment of Revised Ordinance Governing Post Basic B.Sc. (Nursing) course Regulations & Curriculum 2005.

- Ref: 1) University notification of even no dated 12/09/2005, 03/08/2006 and 17/04/2007.
2) University Notification No. ACA/ORD-8/2005-06 dated 28/04/2007.
3) Minutes of the meeting of Syndicate held on 16/05/2007.

In exercise of the powers conferred under section 35(2) of RGUHS Act 1994, and in modification of notification No. ACA/ORD-8/2005-06 dated 17/04/2007, the Syndicate has been pleased to amend and notify the amendment to Revised Ordinance governing Bachelor of Nursing Post Basic Degree Course Regulation and Curriculum 2005 as follow

Scheme of Examination : Criteria for Pass A candidate shall secure at least 50% of total marks in each subject in theory paper and practical separately except in English. The marks obtained in the internal assessment shall be added to the marks obtained in the university examination for each subject for computing the 50% minimum marks required for passing. In case of English, a candidate shall secure at least 33% of maximum marks for passing (inclusive of internal assessment and university examination).

The Amendment of Revised Ordinance as specified shall apply to students admitted for Bachelor of Nursing Post Basic Degree Course for the Academic Session 2005-2006 both for I and II year examination.

By Order,

Sd/-
REGISTRAR

To
The Principals of all the Nursing colleges affiliated to RGUHS

Copy to :

1. The Secretary to Governor, Raj Bhavan, Bangalore -560001
2. The Principal Secretary to Government, Medical Education, Department of Health & Family Welfare, M.S. Building, Dr. B.R. Ambedkar Veedhi, Bangalore - 560001.
3. The Director of Medical Education, Anand Rao Circle, Bangalore - 560009
4. PA to Vice-Chancellor / Registrar / Registrar (Eva)/ Finance Officer.
5. Consultant, Curriculum Development / Consultant, Computer Section.



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Ref.: ACA/ORD-8/2005-06

Date : 17/04/2007

NOTIFICATION

Sub: Amendment of Revised Ordinance Governing Post Basic B.Sc. (Nursing) Course Regulations & Curriculum 2005.

- Ref: 1) No. ACA/ORD-8/2005-06 dated 12/09/2005
2) No. ACA/ORD-8/2005-06 dated 03/08/2006

In exercise of the powers conferred under section 13(2) of RGUHS Act 1994, the Hon'ble Vice-Chancellor has been pleased to amend and notify the amendment to Revised Ordinance governing Bachelor of Nursing post Basic Degree Course Regulation and Curriculum 2005 as given in the schedule hereto annexed.

The Amendment of Revised Ordinance as specified in the schedule shall apply to students admitted for bachelor of Nursing Post Basic Degree Course for the Academic Session 2006-2007 and onwards.

By Order,

Sd/-
REGISTRAR

To
The Principals of all the Nursing college affiliated to RGUHS

Copy to :

1. The Secretary to Governor, Raj Bhavan, Bangalore -560001
2. The Principal Secretary to Government, Medical Education, Department of Health & Family Welfare, M.S. Building, Dr. B.R. Ambedkar Veedhi, Bangalore - 560001.
3. The Director of Medical Education, Anand Rao Circle, Bangalore - 560009
4. PA to Vice-Chancellor / Registrar / Registrar (Eva)/ Finance Officer.
5. Consultant, Curriculum Development / Consultant, Computer Section.
6. The Deputy Registrar (Admission) and Deputy Registrar (Examination Section)
7. Public Information Officer.
8. Office Copy/Guard File.



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Scheduled to Notification No. ACA/ORD-8/2005/06 dated 03.08.2006

Sl No.	EXISTING	AMENDED
1.	<p>8. Internal assessment Regular periodic assessment shall be conducted throughout the course Although the question of number of tests is left to the institution, at least three tests in theory and practical each year be held . The test preceding the university examination may be similar to the pattern of university examination. Average of the marks of the three tests for theory and practical separately shall be sent to the university. Two assignments be given in the first year Marks obtained in the assignments shall be added to theory marks for internal assignment.</p> <p>A candidate shall secure at least 35% of marks in internal assessment to be eligible to appear in the university examination.</p>	<p>8. Internal assessment Regular periodic assessment shall be conducted throughout the course. Although the question of number of tests is left to the institution, at least three tests in theory and practical each year be held. The test preceding the university examination may be similar to the pattern of university examination. Average of the marks of the three tests for theory and practical separately, shall be sent to the university. Two assignment be given in the first year Marks obtained in the assignment shall be added to theory marks for internal assignment.</p> <p>A candidate shall secure 50% of marks in internal assessment in a particular subject in order to be eligible to appear for examination of that subject.</p>
2.	<p>9. Scheme of Examination: Criteria for Pass A candidate shall secure at least 50% of total marks in each subject in theory paper and practical separately except in English. The marks obtained in the internal assessment shall be added to the marks obtained in the university examination for each subject for computing the 50% minimum marks required for passing. In case of English a candidate shall secure at least 33% of maximum marks for passing (inclusive of internal assessment and university examination)</p>	<p>9. Scheme of examination: Criteria for pass A candidate has to pass both internal assessment and university examinations separately by securing minimum of 50% of marks in each subject. Also candidate shall secure at least 50% of total marks in each subject in theory paper and practical separately, except in English The marks obtained in the internal assessment shall be added to the marks obtained in the university examination for each subject for computing the 50% minimum marks required for passing. In case of English a candidate shall secure at least 33% of maximum marks for passing (inclusive of internal assessment and class examination)</p> <p>A candidate not securing 50% Marks in each subject in Theory /Practical and 50% in aggregate in Theory or practical separately in a subject shall be declared to have failed in that subject and required to appear for both Theory and Practical again in the subsequent examination in that subject.</p>



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Scheduled to Notification No. ACA/ORD-8/2005/06 dated 03.08.2006

Sl No.	EXISTING	AMENDED
3.	Declaration of Class (not specified) -----	Declaration of Class (Inserted) a) A candidate having appeared all the subjects in the same examination and passing that examinations in the first attempt at secures 75% of marks or more of grand total marks prescribed will be declared have passed the examination with distinction. b) A candidate having appeared all the subjects in the same examination and passed that examination in the first attempt and secures 65% of marks of more but less than 75% of grand total marks prescribed will be declared to have passed the examination in First Class. c) A candidate having appeared to all the subjects in the same examination and passed that examination in the first attempt and secures 50% of marks or more but less than 65% of grand total marks prescribed will be declared to have passed the examination in Second Class. d) A candidate passing a university examination in more than one attempt shall be passed in pass class irrespective of percentage of marks secured by in the examination.
4.	Table II. Distribution of students, duration and marks. (Page No.6) *English is a qualifying subject.	[Please note fraction of marks should not be rounded off for classes (a), (b) and (c) Table II Distribution of subjects and marks (Page No.6) *English is a qualifying subject of respective colleges will conduct to examination for this subject.

SECTION I

AIMS AND OBJECTIVES

Aims

Post Basic B.Sc. degree in Nursing is a broad based education aimed to build upon the skills and competencies acquired at the diploma in nursing level. It is specifically directed to the upgrading of critical thinking skills, competencies and standards required for practice of professional nursing and midwifery as envisaged in National Health Policy The course is intended to enable the graduates:

- " 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 Post-Basic B.Sc. Nursing degree course 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. Recognise the need for continued learning for their personal and professional development.

SECTION II

(As per Regulations and Syllabus prescribed by Indian Nursing Council, New Delhi - 2001 Revision)

REGULATIONS

1. Title of the course

The course of study shall be called Post Basic B.Sc. in Nursing or B.Sc. Nursing (Post Basic)

2. Eligibility:

A candidate seeking admission must :

- i) hold a diploma in General Nursing & Midwifery (GNM)
- ii) be a registered nurse
- iii) have a minimum of two years experience in a hospital or community health nursing.
- iv) have passed pre university examination in arts/science/commerce conducted by Department of Pre University Education, Karnataka State or its equivalent recognised by Rajiv Gandhi University of Health Sciences.
- v) have working knowledge of English
- vi) be medically fit
- vii) have good personal and professional record.

3. Age

No candidate who is above 48 years of age on 31st December of the year of admission shall be eligible.

4. Duration of Study

The course of study shall be for two academic years from the date of commencement of term notified by the university.

5. Medium of Instruction

English shall be the medium for the course as well as for the examination.

6. Course of Study

Candidates shall undergo course of instruction in the subjects, mentioned in Table 1.

Table -1
Distribution of Subjects and Teaching hours for First and Second year.

Sl. No.	Subject	Theory Hours	Practical Hours
	1st Year		
1.	Nursing Foundation	45	
2.	Nutrition & Dietetics	30	15
3.	Biochemistry & Biophysics	60	
4.	Psychology	60	15
5.	Microbiology	60	30
6.	Maternal Nursing	60	240
7.	Child Health Nursing	60	240
8.	Medical & Surgical Nursing	90	270
9.	English (Qualifying)	60	
	Total	525	810

Note : For teaching of Kannada separate syllabi given vide University letter, No.UA/Misc-59/2001-2002 dated 16.07.2002 and 16.12.2002, and for Constitution UA/Misc- 63/2002-2003 dated 28.10.2002

Sl. No.	Subject	Hours Theory	Hours Practical
	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
	Total	345	855

Note:

1. Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects.
2. English is a qualifying subject
3. Introduction to Nursing Research and Statistics is a subsidiary subject.

7. Attendance

A minimum of not less than 80 % attendance in theory and practical / clinical separately in each subject in each academic year is essential for appearing in the examination. A candidate pursuing in the course shall study in the college for the entire period as a full time student. No candidate is permitted to work in a hospital / nursing home / laboratory / college while studying this course. No candidate should join any other course of study or appear for any other examination conducted by

this university or any other university in India or abroad during the period of registration. Each academic year shall be taken as a unit for calculating the attendance.

8. Internal assessment

Regular periodic assessment shall be conducted throughout the course. Although the question of number of tests is left to the institution, at least three tests in theory and practical each year be held. The test preceding the university examination may be similar to the pattern of university examination. Average of the marks of the three tests for theory and practical separately, shall be sent to the university. Two assignments be given in the first year. Marks obtained in the assignments shall be added to theory marks for internal assignment.

A candidate shall secure at least 35% of marks in internal assessment to be eligible to appear in the university examination.

9. Scheme of examination

The university shall conduct two examinations annually at an interval of not less than 4 to 6 months as notified by the university from time to time. A candidate who satisfies the requirement of attendance, progress and conduct as stipulated by the university shall be eligible to appear for the university examination. Certificate to that effect shall be produced from the Head of the institution along with the application for examination and the prescribed fee.

Schedule of Examination

For the Post Basic B.Sc. Nursing course, there shall be two university examinations, one at the end of I year of the course and the other at the end of II year of the course.

Criteria for Pass

A candidate shall secure at least 50 % of total marks in each subject in theory paper and practical separately except in English. The marks obtained in the internal assessment shall be added to the marks obtained in the university examination for each subject for computing the 50 % minimum marks required for passing. In case of English, a candidate shall secure at least 33 % of maximum marks for passing (inclusive of internal assessment and university examination).

Carry Over Benefit

A candidate is permitted to carry over a maximum of three main subjects provided he/she has passed in five other main subjects in I year. The candidate has to pass the carried over subjects before appearing in the II year university examination.

Table - 2
Distribution of subjects, duration and marks.

Sl. No.	1st Year		Duration Hrs.	Internal Assessment	University Examination	Total Marks
	Theory Paper	Subjects				
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.	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)*		3	25	75	100
	Practicals					
1.	Medical & Surgical Nursing				50	100
2.	Maternal Nursing				50	100
3.	Child Health Nursing				50	100

Sl. No.	2nd Year		Duration Hrs.	Internal Assessment	University Examination	Total Marks
	Theory Paper	Subjects				
1.	Sociology		3	25	75	100
2.	Community Health Nursing		2.	25	75	100
3.	Mental Health Nursing		3	25	75	100
4.	Introduction to Nursing		3	25	75	100
	Education					
5.	Introduction to Nursing		3	25	75	100
6.	Administration					
7.	Introduction to Nursing		3	50	50	50
8.	Research & Statistics**		2		50	
	Practicals					
1.	Community Health Nursing			50		100
2.	Mental Health Nursing			50		100
3.	Research Project **			50		50

* English is a qualifying subject

** Respective colleges will conduct the examination for this subject. It will not be University examination

SECTION *III*

COURSE DESCRIPTION Nursing Foundation

Placement: FirstYear

Time Allotted: Theory - 45 Hrs.

COURSE DESCRIPTION

This course will help students 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 student 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 of quality assurance in nursing.
7. Explain current trends in health and nursing.

COURSE CONTENTS

UNIT I :

Development of nursing as a profession
- 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 nurses.

UNIT II :

Ethical, legal and other issues in nursing
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 developmental stages of individual - newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age

UNIT III :

Theory of nursing practice

Meta paradigm of nursing - characterized by four central concepts i.e. nurse, person (client/patient), health and environment.

UNIT IV :

Nursing process.

Assessment: Tools for assessment, methods, recording.

Planning: Techniques for planning care, types of care plans.

Implementation: Different approaches to care, organizations and implementation of care, recording.

Evaluation: Tools for evaluation, process of evaluation.

UNIT V :

Quality assurance: nursing standards, nursing audit, total quality management

Role of council and professional bodies in maintenance of standards.

UNIT VI :

Primary health care concept:

- community oriented nursing
- holistic nursing
- primary nursing

Family oriented nursing concept:

- problem oriented nursing
- progressive patient care
- team nursing

UNIT VII

Biomedical Waste Management

- Waste sharps, Solid wastes, Discarded Medicines, Cytotoxic drugs.

(Please see Annexure -I)

NUTRITION & DIETETICS

Placement: First 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 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.

COURSE CONTENTS

UNIT I

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 & macro.

UNIT II

Introduction to diet therapy.
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 III

Infant and child Nutrition
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.
Feeding 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.

UNIT IV

Community Nutrition: Need for community nutrition programme.
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.

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.

BIOCHEMISTRY & BIOPHYSICS

Placement: First year

Time Allotted:

Section A (Biochemistry) - Theory 30 hrs.

Section B (Biophysics) - Theory 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.

COURSE CONTENTS

UNIT I

Introduction: Importance of Biochemistry in nursing.
Study of cell and its various components.

UNIT II

Water and Electrolytes: Water- Sources, property & functions in human body.
Water and fluid balance.
Electrolytes of human body, functions, sources.

UNIT III

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, mal-absorption syndrome.

UNIT IV

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.

UNIT V

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.

UNIT VI

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.

UNIT VII

Biomedical Waste Management
- Liquid waste generated from laboratory. Chemical waste.
(Please see Annexure -I)

Section B : Biophysics

Theory - 30 hours

COURSE CONTENTS

UNIT I

Introduction: Concepts of unit and measurements.
Fundamental and derived units.
Units of length, weight, mass, time.

UNIT II

Vector and scalar motion, speed, velocity and acceleration.

UNIT III

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, 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, including plane, screw.
Application of these principles in nursing.

UNIT V

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: Laws of reflection
Focussing 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: Atmospheric pressure, hydrostatic pressure, osmotic pressure
Measurements of pressures in the body
Arterial and venous blood pressures
ocular pressure
intracranial pressure
applications of these principles in nursing.

UNIT VIII

Sound: Frequency, Velocity and Intensity
Vocalisation and hearing. Noise pollution and its prevention.
Use of ultrasound.
Application of these principles in nursing.

UNIT IX

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

UNIT X

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

Principles of Electronics: Common electronic equipments used in patient care.

Practicum

Experiments and Tests should be demonstrated wherever applicable.

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 an 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.

COURSE CONTENTS

UNIT I

Introduction: Definition of psychology, scope and methods of psychology.
Relationship with other subjects.

UNIT II

Sensation, Attention and Perception: Definitions .
Sensory processes: Nonnal and abnonnal
Attention and distraction: contributory factors.
Characteristics of perception, Perception: nonnal and abnonnal

UNIT III

Motivation: Definition and nature of motivation .
Biological and social motives
Frustration and conflicts
Self-actualization

UNIT IV

Emotions: Definition of emotions, Expression and perception
Emotions in sickness

UNIT V

Personality: Definition, Constituents of personality
Personality in sickness and nursing

UNIT VI

Psychological aspects of nursing
Behaviour and sickness. Psychological needs of
Child and adolescents
Adult
Aged
Attendants
Chronically ill individual

UNIT VII

Individual differences
Significance of individual differences.
Heredity and environment.
Role of individual differences both in health and sickness.
Implications of individual differences in nursing.

UNIT VIII

Intelligence and Abilities: Definition
Intelligence and abilities during sickness.
Measurement of intelligence and abilities.

UNIT IX

Learning: Definition, Conditions of learning.
Laws of learning
Learning during health and sickness.

UNIT X

Memory and forgetting: Definition and nature of memory .
Memory during health and sickness.
Forgetting during health and sickness.

UNIT XI

Attitudes: Definition, Development and modification.
Role of attitudes in health and sickness.

UNIT XII

Concept of mental hygiene & mental health.
Characteristics of a mentally healthy person.
Defense mechanisms

PRACTICUM

- 1) Simple experiments on
 - (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.

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.

COURSE CONTENTS

UNIT I

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: Blood smear, Moulds, Yeasts.

UNIT II

Identification of Micro-organisms.
Discussion of laboratory methods.
Diagnosis of bacterial diseases.

Practical : Staining techniques-gram staining, acid fast staining.
Hanging drop preparation.

UNIT III

Growth and Nutrition of Microbes

Temperature.
Moisture
Blood

Practical : Preparation of Media and culture techniques.
Collection, handling and transportation specimens of various

UNIT IV

Destruction of Micro-organisms.
Sterilization and disinfection
Chemotherapy and antibiotics
Effects of heat and cold
Hospital Infection control procedure and role of nurses.

Practical: Sterilization methods - Physical, Chemical and Mechanical

UNIT V

Disease producing micro-organisms.
Gram positive bacilli
Tuberculosis and Leprosy
Anaerobes
Cocci
Spirochaete.
Rickettsiae

Practical: Identification and study of the following bacteria: Streptococci, pneumococci and Staphylococci, Corynebacteria, Spirochetes and gonococci. Enteric bacteria. Posting in infection control department.

UNIT VI

Pathogenic Fungi
Dermatophytes
Systemic Mycotic infection
Laboratory diagnosis of mycotic infection

UNIT VII

Immunity
Immunity and hypersensitivity - Skin test .
Antigen and antibody reaction
Immunization against disease.

Practical: Demonstration of serological methods.

UNIT VIII

Parasites and Vectors.
Characteristics and classification of parasites.
Protozoal infection including amoebiasis
Helminthes infection
Diagnosis of parasitic infection
Vectors and diseases transmitted by them.

Practical: Identification of Parasites and Vectors.

UNIT IX

Viruses.
Classification and general character of viruses
Diseases caused by viruses in man and animal and their control.

UNIT X

Micro-organisms transmitted through food.
Food poisoning. Food-borne infections.

UNIT XI

Biomedical Waste Management
- Microbiology and bio technology waste. Animal waste
(Please see Annexure -I)

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. Biomedical Waste Management.

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.

COURSE CONTENTS

UNIT I

Introduction and historical review.
Planned parenthood
Maternal morbidity and mortality rates
Legislations related to maternity benefits, MTP actd, incentives for family planning etc.

UNIT II

Review of the anatomy and physiology of female reproductive system
Female pelvis (normal and contracted)
Review of foetal development.

UNIT III

Physiology of pregnancy.
Signs and symptoms and diagnosis of pregnancy
Antenatal care, management of pregnancy, labour and puerperium.
Pregnant women with HIV / AIDS
Management of common gynaecological problems

UNIT IV

The New born baby
Care of the baby at birth including resuscitation.
Essential New born Care
Feeding
Jaundice and infection
Small & large for date babies.
Intensive care of the new born
Trauma and haemorrhage.

UNIT V

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 & malpresentation)
Uterine inertia
Disorders of puerperium
Management of engorged breast, cracked nipples, breast abscess and mastitis
Pueperal sepsis
Post partum hemorrhage
Inversion and prolapse of uterus, obstetrical emergencies
Obstetrical procedures i.e. forceps, vacuum, episiotomy, caesarean section

UNIT VI

Drugs in obstetrics.
Effects of drugs during pregnancy, labour and puerperium on mother and baby.

UNIT VII

National Welfare Programmes for women.
National Family Welfare Programme
Infertile couple
Problems associated with unwanted pregnancy.
Unwed mothers.

PRACTICUM

1. The students will:
 - a. Be posted in antenatal clinic, MCH 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 & 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.

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 childcare, 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.

COURSE CONTENTS

UNIT I

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 child.
The role of a paediatric nurse in caring for a hospitalised child.
Principles of pre and post operative care of infants and children.
Paediatric nursing procedures.

UNIT II

The healthy child
Growth and development from birth to adolescence
The needs of normal children through the stages of development and parental guidance.
Nutritional needs of children & infants breast-feeding, supplementary / artificial feeding and weaning.
Accidents, causes and prevention
Value of play and selection of play material
Preventive immunization.

UNIT III

Nursing care of a neonate
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. Prevention of infections in the nursery.

UNIT IV

Nursing management in common childhood diseases
Nutritional deficiency disorders.
Respiratory disorders and infections
Gastrointestinal infections, infestations and congenital disorders.
Cardio vascular problem-congenital defects and rheumatic fever.
Genito-urinary disorder - Nephrotic syndrome, Wilms' tumor, infection and congenital disorders.
Neurological infections and disorders- convulsions, epilepsy, meningitis, hydrocephalus, spinabifida.
Hematological disorders - Anemias, thalassemia, ITP, Leukemia, hemophilia.
Endocrine disorders - Juvenile Diabetes Mellitus.
Orthopedic disorders - club feet, hip dislocation and fracture.
Disorders of skin, eye and ears.
Common communicable diseases in children, their identification, nursing management in hospital and home and prevention.
Paediatric emergencies - poisoning, foreign bodies, haemorrhage, burns and drowning.

UNIT V

Management of behaviour disorders in children.
Management of challenged children:
Mentally challenged
Physically challenged
Socially challenged

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/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:
8. Taking pediatric history
9. Physical assessment of children
10. Baby bath
11. Feeding
12. Restraining
13. Calculation of dosage of drugs and administration of medications and injections
14. Collection of specimens
15. Enema, bowel wash, colostomy irrigation
16. Steam and Oxygen inhalation
17. Preparation to assist with diagnostic tests and operations
18. Examination/Assessment of a newborn
19. Neonatal resuscitation
20. Care of a baby in incubator and on ventilator
21. Photo therapy
22. Assist in exchange transfusion and other therapeutic procedures.

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 students' 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.

COURSE CONTENTS

UNIT I

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.

UNIT II

Nursing management of patient with specific problems.
Fluid and electrolyte imbalance.
Dyspnea and cough, respiratory obstruction
Fever
Shock
Unconsciousness
Pain
Acute illness
Chronic illness

Terminal illness
Age related illness
Patient under going surgery
Incontinence

UNIT III

Nursing management of patient with neurological and neuro surgical conditions.
Review of anatomy and physiology of the nervous system.
Pathophysiology, diagnostic procedures and management of :
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 & spinal cord, congenital malformations, degenerative diseases.

UNIT IV

Nursing management of patient with cardiovascular problems.
Review of relevant anatomy and physiology of cardio vascular system.
Pathophysiology, diagnostic procedures and management of
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 peripherovascular disorders, recent advancement in cardiology.

UNIT V

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.
Bronchitis
Asthma
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.

UNIT VI

Nursing management of patient with genito-urinary problems.
Review of anatomy and physiology of the genito-urinary system
Nephritis
Renal calculus
Acute renal failure
Chronic renal failure
End stage renal disease
Special procedures, dialysis, renal transplant
Drugs used in management of these patients
Congenital disorders, urinary infections
Benign prostate hypertrophy.

UNIT VII

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
GI Bleeding
Peptic ulcer
Infections
Acute abdomen
Colitis, diarrhoea, dysentery & 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.

UNIT VIII

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.

UNIT IX

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
Tumor
Amputation
Diagnostic procedures
Nursing management of patients with above problems.
Prosthesis and rehabilitation.
Transplant & replacement surgeries.

UNIT X

Nursing management of patients with disorders of female reproductive tract
Disorder of menstruation
Infections of the genital tract
Benign and malignant tumors of the genital tract
Recto Vaginal Fistula(R.V.F.), Vesico Vaginal Fistula (V.V.F.)
Climactic changes and associated problems.

UNIT XI

Nursing management of patients with Oncological disorders.
Types of neoplasms and related pathophysiology.
Diagnostic procedures
Modalities of treatment and nurse's role.
Special therapies. - chemotherapy and radiotherapy.
Preventive measures, other therapies.

UNIT XII

Nursing management of patient with burns.
Nursing management of patient with reconstructive surgeries.

UNIT XIII

Nursing management of patients with common communicable diseases & STD'S
Nursing management of patients with immunological disorders including HIV / AIDS

UNIT XIV

Nursing management of patients with diseases of eye, ear, nose, throat & skin.

UNIT XV

Nursing management of patients with blood disorders

Review of Anatomy & 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 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.

UNIT XVI

Nursing in emergencies.

Cardiac emergencies

Trauma

Poisoning

Crisis management: Thyroid crisis, Hypertensive crisis, adrenal crisis.

PRACTICUM

Students should rotated in the selected medical & surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopedics, Gynecology, Oncology, Burns and Reconstructive surgical units.

The students should 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.

ENGLISH

Placement: First Year

Time allotted: Theory - 60hrs.

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

Remedial Study of Grammar.
Review of grammar, vocabulary and effective use of dictionary.
Prepare task oriented seminars.
Symposia and panel discussion.

UNIT II

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

UNIT III

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.

UNIT IV

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 participatioh in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communication.

SOCIOLOGY

Placement: Second Year

Time allotted: Theory - 60 hrs

COURSE DESCRIPTION

This course is to reorient students to sociology related to community and social institution in India and its relationship with health, illness and nursing

OBJECTIVES

At the end of the course, the student will

1. Describe sociological concepts that are applicable to nursing.
2. Determine role of sociology in nursing as related to social institutions in India
3. Develop positive attitudes towards individual, family and community

COURSE CONTENTS

UNIT I

Introduction

Importance of study of sociology in nursing, relationship of anthropology, sociology, etc.

UNIT II

Individual and the Society

Socialization

Interdependence of the individual and society

Personal disorganization.

UNIT III

Culture

Nature of culture

Evolution of culture

Diversity and uniformity of culture

UNIT IV

Social organization

Social groups, crowds and public groups, nations, race.

Social institutions: The family, marriage, education, religion, arts, economic organization, political organization.

The urban & rural community in India: Ecology, characteristics of the village, characteristics of the town and city.

Social stratification : Class and caste.

UNIT V

Social Process

Process of Social Interaction: Competition, conflict-war, cooperation, accommodation and assimilation.

UNIT VI

Social change

Nature and process of Social Change: Factors influencing cultural change. Cultural lag.

UNIT VII

Social Problems

Social disorganization, control & planning: poverty, population, housing, illiteracy, food supplies, growth of urbanization, prostitution, minority groups, rights of women & children, child labour, child abuse, delinquency and crime, substance abuse.

COMMUNITY HEALTH NURSING

Placement: Second Year

Time Allotted: Theory - 60 hrs
Practical - 240 hrs

COURSE DESCRIPTION

The course enables the students to understand the national health care delivery system and to participate in the delivery of community health nursing.

OBJECTIVES

At the end of the course, the student will

1. Explain the concept of various factors contributing to health of individual, family and community.
2. Identify the role of community health nurse.
3. Describe national health care delivery system.
4. Describe epidemiological methods and principles of prevention and control of illness in the community.
5. Identify the role of personnel working in the community health set up.
6. Plan the work of community health nurse and supervise and train health workers.

COURSE CONTENTS

UNIT I

Introduction
Introduction to Community Health - Concepts, Principles and elements of Primary Health Care.
Introduction to community health nursing.
Concepts of community health nursing - Community nursing process.
Objectives, scope and principles of community health nursing.

UNIT II

Family Health Services
Concept, objectives, scope and principles.
Individual, family and community as a unit of service.
Principles and techniques of home visiting.
Establishing working relationship with the family.
Working with families in relation to prevention of disease, promotion of health.
Care of the sick in the home, physically handicapped and mentally challenged.
Surveillance and monitoring.

UNIT III

Organisation and administration of health services in India.
National health policy

Health Care Delivery system in India.
Health team concept
Centre, State, district, urban health services, rural health services
System of medicines
Centrally sponsored health schemes
Role of voluntary health organizations and international health agencies
Role of health personnel in the community
Public health legislation.

UNIT IV

Health Education
Aims, concepts and scope of health education.
National plan for health education
Communication techniques
Methods and media for health education programmes
Planning for health education and role of nurse

UNIT V

Role of the community health nurse.
National health programmes
Maternal and child health programmes
Family welfare and school health services
Occupational health services.
As a member of the health team.
Training and supervision of health care workers.

UNIT VI

Epidemiology
Definition - Concepts, aims, objectives, methods, principles,
Epidemiology - Theories and Models.
Application of Epidemiology, principles and concepts in community health.

UNIT VII

Bio Statistics and Vital Statistics
Introduction, definition and scope, legislation
Report, recording and compiling of vital statistics at the local, state, national and international level.
Definitions and methods of computing vital statistics.
Methods of presenting data
Management Information System.

PRACTICUM

Each student will prepare a community profile.

The students will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.

The students will participate in the activities of primary health centre,

Sub-centre, MCH Centre.

Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, Infectious disease hospital.

Conduct health educational programmes for individual/groups/community.

MENTAL HEALTH AND NURSING

Placement: Second Year

Time Allotted: Theory - 60 hrs
Practical - 240 hrs.

COURSE DESCRIPTION

This course enable the students to recognize and appreciate the causes, symptoms and process of abnormal human behaviour. It also introduces the student to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behaviour. This course helps the student to learn principles of mental health and psychiatric nursing and to develop beginning skills in the management of the mentally ill in hospital and community.

OBJECTIVES

At the end of course, the student will

1. Identify and describe the philosophy and principles of mental health nursing.
2. Describe the historical development of mental health and psychiatric nursing.
3. Classify mental disorders.
4. Develop skill in history taking and performing mental status examination.
5. Describe etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various mental disorders.
7. Communicate therapeutically with patients and their families.
8. Identify role of the nurse in preventive psychiatry.
9. Identify the legal aspects in practice of mental health and psychiatric nursing.

COURSE CONTENTS

UNIT I

Introduction and Historical Development
History of psychiatry
Historical development of mental health nursing.
Philosophy, principles of mental health and psychiatric nursing.
Concept of normal and abnormal behaviour.
Role and qualities of mental health and psychiatric nurse
Mental health team and functions of team members.
Legal aspects in psychiatry and mental health services.

UNIT II

Classification and assessment of mental disorders
Terminologies used in Psychiatry
Classification of mental disorders
Etiological factors and psychopathology of mental disorders

History taking and assessment methods for mental disorders.

UNIT III

Therapeutic Communication

Communication process

Interview skills, therapeutic communication techniques. Nurse Patient Relationship, Therapeutic impasse and its management Process recording.

UNIT IV

Management of mental Disorders.

UNIT V

Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and nursing management of patient with following disorders:

Neurotic Disorders: Anxiety Neurosis, Depressive Neurosis, Obsessive Compulsive Neurosis, Phobic Neurosis and Hypochondriacal Neurosis, Stress related and Somatoform disorders.

Psychotic Disorders: Schizophrenic form, affective and organic psychosis.

Organic Brain Syndromes

Psychosomatic disorders

Personality disorders

Disorders of childhood and adolescence.

UNIT V

Management of patients with Substance use disorders

Substance use and misuse.

Dependence, intoxication and withdrawal

Classification of psychoactive substances

Etiological & contributory factors

Psychopathology

Clinical features

Diagnostic criteria

Treatment and nursing management of patient with substance use disorders.

Preventive and rehabilitative aspects in substance abuse.

UNIT VI

Management of mental sub-normality

Classification of mental sub-normality

Etiological factors, psychopathology, psychometric assessment, diagnostic criteria and management of sub-normality.

UNIT VII

Psychiatric emergencies

Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and nursing management of patient with psychiatric emergencies.

Crisis Intervention therapy

UNIT VIII

Therapeutic Modalities

Principles, indication, contraindications and role of nurse in various treatment methods

Therapeutic community and Milieu therapy

Occupational therapy

Psychotherapy

Behaviour therapy

Family therapy

Pharmacotherapy

Electro Convulsive therapy

Other miscellaneous therapies

UNIT IX

Preventive Psychiatry

Model of prevention

Role of nurse in preventive Psychiatry

Psychiatric social work

Community mental health nursing

Community mental health agencies

National mental health programmes

PRACTICUM

The student will be provided opportunity to :

Observe, record and report the behavior of their selected patients.

Record the process of interaction.

Assess the nursing needs of their selected patients, plan and implement the nursing intervention.

Counsel the attendant and family members of patient.

Participate in the activities of psychiatric team.

Write observation report after a field visit to the following places:

Child guidance clinic,

School/Special Schools (For mentally subnormal),

Mental Hospital,

Community mental health centres

De-addiction centre.

Introduction to Nursing Education

Placement: Second Year

Time Allotted: Theory - 60 hrs.
Practical - 75 Hrs.

COURSE DESCRIPTION

This course introduces the students to principles and concepts of education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programmes in nursing.

OBJECTIVES

At the end of the course, the students will

1. Describe the philosophy and principles of education.
2. Explain the teaching - learning process
3. Develop the ability to teach, using various methods and media.
4. Describe the process of assessment.
5. Describe the administrative aspects of school of nursing
6. Participate in planning and organizing an in-service education programme.
7. Develop basic skill of counselling and guidance.

COURSE CONTENTS

UNIT I

Introduction to education.
Meaning of education, aims, function and principles.
Philosophy of education
Factors influencing development of Philosophy of nursing education.

UNIT II

Teaching learning process
Nature and characteristics of learning,
Principles and maxims of teaching
Formulating objectives
Lesson planning.

UNIT III

Methods of teaching
Teaching methods.
Lecture
Discussion
Demonstration

Group discussion
Project
Role-play
Panel discussion
Symposium
Seminar
Field trip
Workshop
Exhibition
Programmed instruction
Computer assisted learning.
Clinical teaching methods:
Case methods
case presentation
nursing rounds and reports
bedside clinic
conference (individual and group)
recording of interaction process.

UNIT IV

Educational media
The communication process: factors affecting communication.
Purposes and types of audio-visual aids.
Graphics aid: chalk-board, charts, graphs, posters, flash cards, flannel graph/khadigraph, bulletin, cartoon, Three dimensional aids: objects, specimen, models, puppets.
Printed aids: pamphlets and leaflets
Projected aids: slides, films and televisions, VCR, VCP, overhead projector, camera, microscope.
Audio-aids: tape-recorder, public address system, computer

UNIT V

Methods of assessment
Purpose and scope of evaluation and assessment
Criteria for selection of assessment techniques and methods
Assessment of knowledge: essay type question, SAQ (Short Answer Questions),
MCQ (multiple choice questions),
Assessment of skills: Observation, Check list, Practical Examination, Viva, Objective structured clinical examination.
Assessment of attitude: Attitude scale

UNIT VI

Management of School of Nursing

Planning of School of nursing, organization.

Recruitment of teaching staff, budget, facilities for the school, student selection and admission procedure, administrative planning for students, welfare services for students, maintenance of school records, preparation of annual reports. INC guidelines for school of nursing.

UNIT VII

Guidance and Counselling Definition

Basic principles of guidance and counselling

Organisation of guidance and counselling services

Counselling process

Managing disciplinary problems

Management of crisis

UNIT VIII

In-service education

Introduction to nature and scope of in-service education programme

Principles of adult learning

Planning for in-service programme

Techniques, and methods of staff education programme

Evaluation of in-service programme.

PRACTICUM

Each student should:

Conduct five planned teaching using different methods and media.

Prepare different types of teaching aids

Plan, organize and conduct inservice education programme.

Conduct at least one counselling session.

Prepare rotation plans.

INTRODUCTION TO NURSING SERVICE ADMINISTRATION

Placement: Second Year

Time Allotted: Theory - 60 hrs.
Practical - 180 Hrs.

COURSE CONTENTS

This course is designed to give an opportunity to the student to gain an understanding of the principles of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of professional leadership need.

OBJECTIVES

At the end of the course, the student will

1. Identify the principles of administration
2. Describe the principles and techniques of supervision
3. Explain the principles and methods of personnel management
4. Explain the principles of budgeting
5. Organise and manage a nursing unit effectively
6. Identify dynamics of organizational behaviour, styles and functions of effective leadership.

COURSE CONTENTS

UNIT I

Principles and Practice of Administration

Significance, elements and principles of administration,

Organisation of Hospital -Definition, Aims, functions and classifications, health team.

Policies of hospital, different departments with special emphasis to department of nursing & office management.

Responsibilities of the nursing personnel specially of ward sister, medico legal aspects, concept of cost effectiveness.

UNIT II

Nursing Unit Management

Physical layout of a nursing unit and necessary facilities

Factors affecting the quality of nursing care.

Maintenance of a therapeutic environment

Administration of the unit -management of patient care.

Maintenance of physical environment.

Assignment of duties and time plan.

Patient assignment, safety measures, prevention of accidents and infections,

Maintenance of patients records and reports, legal responsibilities.

Maintenance of quality nursing care, nursing audit.

UNIT III

Personnel management

Staff recruitment and selection, appointment, promotions, personnel policies and job descriptions.

Job analysis.

Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, staff welfare and management of disciplinary problems.

UNIT IV

Supervision

Principles of supervision, nature and objectives .

Tools and techniques of supervision

Evaluation

Nursing audit

Staff development - orientation program

Skill training

Leadership development.

Problem solving process.

UNIT V

Material Management

Principles of material management,

Quality control.

Inventory, care of equipment, safekeeping

Role of nursing personnel in material management.

UNIT VI

Financial Management

Budgeting - Principles of budgeting, audit.

UNIT VII

Organisational Behaviour

Group dynamic and human relation, organizational communication (hospital information system)

Public relations, leadership styles and functions.

Methods of reporting.

Maintaining records and reports.

PRACTICUM

Observe the functioning of nursing administration at various level, i.e. institution, department, unit.

Each student will practice ward management under supervision

Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the nursing unit.

Visit to private and Government hospital and write observation reports.

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Placement : Second Year

Time Allotted: Theory - 45 Hrs.
Practical - 120 Hrs.

COURSE DESCRIPTION

The course is designed to assist the students to develop an understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting project(s) and solve problems related to nursing using scientific method.

OBJECTIVES

At the end of the course, the students will :

1. Define the terms and concepts of nursing research
2. Identify needs and scope of nursing research
3. Identify and define a research problem
4. Locate and list sources of literature for a specific study
5. Describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method.
6. Develop tool for data collection
7. Enumerate steps of data analysis and present data summary in tabular form
8. Use descriptive and co-relational statistics in data analysis
9. Conduct a group research project

COURSE CONTENTS

A. INTRODUCTION TO RESEARCH METHODOLOGY

UNIT I

Steps of scientific methods.
Definition of research
Need for nursing research
Characteristics of good research. Research Process.

UNIT II

Statement of research problem.
Statement of purpose and objectives.
Definition of research terms.
Review of literature.

UNIT III

Research approaches: - historical, survey and experimental

UNIT IV

Sampling Techniques and methods of data collection.

Sampling

Instruments-questionnaire. Interview

Observation schedule, records, measurements

Reliability and validity of instruments.

UNIT V

Analysis of Data: Tabulation

Classification and summarization

Presentation

Interpretation of data.

UNIT VI

Communication of research findings.

Writing Report:

Organizing materials for writing

Format of the report

Use of computers.

B. INTRODUCTION TO STATISTICS

UNIT VII

Descriptive Statistics.

Frequency Distribution - Types of measure - frequencies, interval, graphic methods of describing frequency.

Measures of Central Tendency - Mode, Median and Mean.

Measures of variability: Range, Standard deviation

Introduction to normal probability.

UNIT VIII

Correlation

Computation by rank difference methods.

Uses of correlation co-efficient.

UNIT IX

Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.

UNIT X

Introduction to computers in nursing
Introduction to computers and disk -operating system,
Introduction to word processing
Introduction to data base
Windows applications, word, excel, power point, multimedia.
Use of statistical packages.
Introduction to Internet & use of electronic mail
Computer aided teaching & testing.

PRACTICUM

Students will conduct research project in small groups in selected areas of nursing and submit a report (Group studies may include studying of existing health practices, improved practices of nursing (procedures), health records, patient records and survey of nursing literature).

SECTION IV

TEXT AND REFERENCE BOOKS

LIST OF BOOKS FOR B.SC. POST BASIC NURSING COURSE

CHEMISTRY

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Inamdar M.	Chemistry For Nurses	1	2002	Vora Medical	Mumbai

SOCIOLOGY

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Sachdeva D.R. & Bhushan	An Introduction To Sociology	34	2002	Kitab Mahal	New Delhi

PSYCHOLOGY

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Hurlock	Developmental Psychology A Life-Span Approach				
2.	Morgen & King	Psychiatry For Guidance Nurse	6 & 7	1979 & 1993	Me Graw Hill	Book Co.
3.	Anthinkad J	Introduction To Psychology			Jaypee Brothers	Medical Publishers, New Delhi

MENTAL HEALTH NURSING

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Townsend, Mary	Psychiatric Mental Health Nursing	3	2005	F.A. Davis	Philadel phia

2.	Kapoor, Bimla	Text Book of Psychiatric Nursing	1	1998	Kumar Publishing	Delhi
3.	Ahuja, Niraj	A Short Text Book of Psychiatry	4	1999	Jaypee	New Delhi
4.	Staurt, Sundeen	Principles & Practices of Psychiatric Nursing	7	2001	Harcourt (India) Pvt., Mosby Inc	New Delhi
5.	Frisch Noreen C	Psychiatric Mental Health Nsg.	2	2002	Thomson, Delmer	Austalia
6.	Fontaine K.L	Mental Health Nsg.	1	1999	Addison Wisley	Newyork
7.	Sreevani R	A Guide To Mental Health & Psychiatric Nsg.	1	2004	Jaypee	New Delhi
8.	Boyd, Mary Ann	Psychiatric Nursing	2	2002	Lippincott	Philadel phia

CHILD HEALTH NURSING

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Gupte	Short Text Book of Pediatrics	10	2004	Jaypee	New Delhi
2.	Tambulwakhari	Pediatric Nursing		1995	Vora Publication	Bombay
3.	Wong	Whaley & Wong's Nursing Care of Infants & Children	5	1995	Mosby	St. Louis
4.	Meharban Singh	Care of The New Born	6	2004	Sagar	New Delhi
5.	Marlow, Dorothy	Textbook of Pediatric Nursing	6	2001	W.B. Saunders	Philadel phia
6.	Chellappa J	Paediatric Nursing	1	1995	Gajanana Pub.,	Bangalore
7.	Hurlock, Elizebeth	Child Growth & Development	5	2003	Macgraw Hill	New Delhi
8.	Rollant, PD	Peadiatric Nsg. Mosby's Review Series	1	1996	Mosby	St.Louis
9.	Ghai O.P	Essential Pediatrics	4	1996	Interprint	New Delhi
10.	Muscarii Mary E	Pediatric Nursing	2	1996	Lippincott	Philadelphia
11.	Behrman R.E	Nelson T. B. of Pediatrics Vol 1 & 2	1	1996	Prism	Bangalore

NUTRITION & DIETETICS

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Swaminathan M.	Essentials Of Food & Nutrition Vol. I & Vol.II	2	2003	Bangalore Printing	Bangalore
2.	Swaminathan M.	Food & Nutrition	5	2001	B.P.P.	Bangalore
3.	Bhatia Arti Ed.	Encyclopaedia Of Health & Nutrition Vol 1 To Vol Vi	1	1999	Anmol	Newdelhi
4.	Indrani	Nursing Manual Of nutrition & Therapeutic Diet	1	2003	Jaypee	New Delhi
5.	Roth,Ruth A	Nutrition & Diet Therapy	8	2003	Thomson Learning	Australia

MATERNAL NURSING

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Myles, Margret	A Text Book Of Midwives	14	2004	Churchill	New York
2.	Alexander J.O	Midwifery Practice Care Topics	1	1996	Macmillan	London
3.	Kargar, Ishbel Ed	Challenges In The Midwifery Care	1	1997	Macmillan	
4.	James David K	High Risk Pregnancy : Management S Option	2	1999	W.B.Saunders	London
5.	Ann Page L	The New Midwifery Science & Sensitive In Practice	1	2000	Churchill	Toronto
6.	Wellford Heather	A Marshall Health Guide Pregnancy	1	1998	Marshall Pub	London
7.	Lee, Richard. Ved	Medical Care of The Pregnant Patient	1	2000	American College	Philadel? phia

MICROBIOLOGY

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Jayaram Paniker	Text Book of Parasitology	5	2003	Jaypee	New Delhi
2.	Satish Gupta	Short Text Book of Medical Microbiology	8	2002	Jaypee	New Delhi
3.	Ichhpujan & Batia	Microbiology for Nurses	2	2003	Jaypee	New Delhi

NURSING PRACTICE

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Potter & Perry	Basic Nursing : Theory & Practice	3	1995	Mosby	St. Louis
2.	Polit & Hungler	Nursing Research	6	2001	J.E. Lippincott	Philadelphia
3.	Nancy	Principles & Practice of Nursing	5	2002	N.R. Brothers	Indore

COMMUNITY HEALTH NURSING

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Rao, Kasturi Sundar	Introduction To Community Health Nursing	3	2000	B. I. Publication	Chennai
2.	Park J.E.	Text Book of Preventive & Social Medicine	18	2005	Banarsidas Bhanot	Jabalpur
3.	Stanhope	Community Health Nursing	1	2002	Mosby	Philadelphia
4.	Clemen - Stone, Susan	Comprehensive Community Health Nsg.	8	1998	B.I.Waverly	Newdelhi
5.	Hunt Roberta	Introduction To Community Based Nsg.	2	2001	Lippincott	Philadelphia
6.	Roa, Sridhar.	Principles of Community Medicine	3	2002	A.I.T.B.S	Newdelhi
7.	Gupta, M.C & Mahajan	T.B. of Preventive & Social Medicins.	3	2003	Jaypee Brothers	Newdelhi

MEDICAL SURGICAL NURSING

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Smeltzer S.C. & Bare B.G.	Brunner & Suddarth's Text Book of Medical Surgical Nursing	10	2004	Lippincott	New York
2.	Baughman, Diane C	Hand Book For Brunnery Suddorth's T.B. Of Medical Surgical Nsg.	1	1996	Lippincott	Newyork
3.	Black, Joyce	Medical Surgical Nsg; Clinical Mgt.For Continuity of Care Vol 1. & Vol li	5	1998	Harcourt Brace	Singapore

4.	Phips Wilma J	Shafer's Med Surgical Nursing	7	1995	B.T.Pubn	Bangalore
5.	Lee, Richard. V Ed	Medical Care of The Pregnant Patient	1	2000	American College	Philadel phia
6.	Black, Joyce M	Medical Surgical Nsg. Vol1 & Vol 1-2	7	2005	Saunders	St.Louis

NURSING ADMINISTRATION

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Awasthi & Maheshwari	Public Administration	21	1996	Aggarwal Educationel	Agra
2.	Davies	Hospital Planning & Administration		1995	Jaypee	New Delhi
3.	Bhagwan,Vishnoo	Public Administration	1	1996	S.Chand	New Delhi
4.	Basu Rumki	Public Administration	1	1996	Sterling	New Delhi
5.	Sakharkar, B.M	Principles Of Hospital Administration And Planning	1	1998	Jaypee	Newdelhi
6.	Kunderi G.D	Hospital Planning, Design & Management	1	1998	Tata Mcgraw -Hill	Newdelhi

NURSING RESEARCH & STATISTICS

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
1.	Burns Nancy	Understanding Nursing Research	2	2002	Sounders	Philadel phia
2.	Basavanthappa	Nursing Research	1	1998	Jaypee	New Delhi
3.	Park .K	Text Book of Preventive & Social Medicine	18	2005	Banasti Dass Bhanok	Jabalpur

NURSING FOUNDATION

Sl. No.	Authors Name	Title of The Book	Edition	Year	Name of the Publisher	Place of Publication
	White Lois	Basic Nsg.Foundation of Skills & Concepts	1	2002	Delmer	Australia

ANNEXURE I

BIO-MEDICAL WASTE MANAGEMENT

Waste Category No.	Waste Category Type	Treatment & Disposal Options	Subject/year of Study
Category No. 1	Animal Waste : (Animal tissues, organs, body parts, carcasses, bleeding parts, fluid, blood and experimental animals used in research, waste generated by veterinary hospitals; colleges, discharge from hospitals; animal houses.	Incineration @ /deep burial*	II year Unit III Community Health nursing - 1 hr.
Category No. 2	Microbiology & Biotechnology waste: (Waste from laboratory cultures, stocks of specimens of micro-organisms live or attenuated vaccines, human and animal cell cultures used in research and infectious agents from research and industrial laboratories, wastes from production of biological, toxins, dishes and devices used for transfer of cultures.)	Local autoclaving / micro waving / incineration@	I year Unit IV Microbiology - 1 hr.
Category No. 3	Waste Sharps: (Needles, syringes, scalples, blades, glass etc. that may cause puncture and cuts. This includes both used and unused sharps.)	Disinfection (Chemical treatment / # autoclaving/ micro waving and mutilation/ shredding **	I Year Nursing Foundation - 1 hr. Unit - III

Category No. 4	Discarded Medicines and Cytotoxic Drugs : (Wastes comprising of outdated, contaminated and discarded medicines)	Incineration@/ destruction and drugs disposal in secured landfills	1 year Nursing Foundation - 1 hr. Unit- III
Category No. 5	Soiled Waste: (items contaminated with blood and body fluids including cotton, dressings, soiled plaster casts, liners, bleedings and other material contaminated with blood)	Incineration @ autoclaving/ micro waving	1 Year Nursing Foundation - 1 hr. Unit- III
Category No. 6	Liquid Waste : (Waste generated from laboratory and washing, cleaning, housekeeping and disinfecting activities)	Disinfection by chemical treatment and discharge into drains	1 Year) Biochemistry and Biophysics - 1 hr. Unit III
Category No. 7	Chemical Waste : (Chemicals used in production of biological, chemicals used in disinfection, as insecticides etc.)	Chemical treatment and discharge into drains for liquids and secured landfill for solids.	1 Year Biochemistry and Biophysics - 1 hr. Unit III

Chemical treatment using at least 1% hypo chloride solution or any other equivalent chemical reagent. It must be ensured that chemical treatment ensures disinfection.

** Mutilation / shredding must be such so as to prevent unauthorized reuse.

@ There will be no chemical pretreatment before incineration. Chlorinated plastics shall not be incinerated.

* Deep burial shall be an option available only in towns with population less than five lakhs and in rural areas.

Colour Coding	Type of Container	Waste Category	Treatment Options
Yellow	Plastic bag	Cat. 1, Cat. 2 and Cat. 5	Incineration/ deep burial
Red	Disinfected container/ Plastic bag	Cat. 2 and Cat. 5	Autoclaving/ Micro waving and chemical treatment
Blue/ White translucent	Plastic bag/ Puncture proof container	Cat. 3	Autoclaving/ Micro waving /chemical treatment and destruction/ shredding
Black	Plastic bag	Cat. 4 and Cat. 7 (solid)	Disposal in secured landfill

- Waste collection bags for waste types needing incineration shall not be made of chlorinated plastics.
- Categories 6 and 7 (liquid) do not require containers/ bags.
- Category 2 if disinfected locally need not be put in containers/bags.

Examination

Note : One short answer or short essay questions pertaining to the above chapters in their respective subjects may be asked

Books

- Text book for Environmental Studies 2004 - Erach Bharucha University Grants Commission, New Delhi.
- Journal of the Indian Society of Hospital Waste Management - Dr. D.G. Gopinath, Volume - 2, Issue -I, 2004.
- Biomedical wastage (Management and handling) Rules 1998, Ministry of Forests and Environment, Government of India.
- J. E. Park - Preventive & social medicine Ed. 18 M/S Banarsidas Bhanot Jabalpur 2005
- Potter and Perry - Fundamentals of Nursing ed. Sixth Mosby St. Louis Missouri 2005
- Barbara Kozier - Fundamentals of Nursing ed. Fourth Addison Wesley Canada 1991
- Text Book of Microbiology - Ananth Narayan ed. 7th Orient Longman Chennai 2005