

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

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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 P.C. 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  
ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

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.



Rajiv Gandhi University of Health Sciences, Karnataka

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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.



# Rajiv Gandhi University of Health Sciences, Karnataka

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

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

| Sl No. | EXISTING  | AMENDED   |
|--------|---|---|
| 1.     | <p><b>8. Internal assessment</b><br/>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><b>8. Internal assessment</b><br/>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><b>9. Scheme of Examination:</b><br/>Criteria for Pass<br/>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><b>9. Scheme of examination:</b><br/>Criteria for pass<br/>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> |

Rajiv Gandhi University of Health Sciences





# Rajiv Gandhi University of Health Sciences, Karnataka

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

| SI No. | EXISTING  | AMENDED  |
|--------|---|--|
| 3.     | <b>Declaration of Class<br/>(not specified)</b><br>-----  | <b>Declaration of Class<br/>(Inserted)</b><br><br>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.<br><br>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.<br><br>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.<br><br>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.     | <b>Table II. Distribution of students,<br/>duration and marks. (Page No.6)</b><br><br>*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)<br><br>*English is a qualifying subject of respective colleges will conduct to examination for this subject.   |

Rajiv Gandhi University of Health Sciences

# 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 |
|---------|----------------------------|--------------|-----------------|
|         | <b>1st Year</b>            |              |                 |
| 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           |                 |
|         | <b>Total</b>               | <b>525</b>   | <b>810</b>      |

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 |
|---------|---|--------------|-----------------|
|         | <b>2nd Year</b>                               |              |                 |
| 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             |
|         | <b>Total</b>                                  | <b>345</b>   | <b>855</b>      |

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         |
|         | <b>Practicals</b>          |          |               |                     |                        |             |
| 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         |
|         | <b>Education</b>         |          |               |                     |                        |             |
| 5.      | Introduction to Nursing  |          | 3             | 25                  | 75                     | 100         |
| 6.      | Administration           |          |               |                     |                        |             |
| 7.      | Introduction to Nursing  |          | 3             | 50                  | 50                     | 50          |
| 8.      | Research & Statistics**  |          | 2             |                     | 50                     |             |
|         | <b>Practicals</b>        |          |               |                     |                        |             |
| 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, Mouldes, 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 prepnanacy.  
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 observational 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 peripheral vascular 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<br>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<br>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.      | Tambulwakhar       | 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<br>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.      | Welford 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 Brunner 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 Ii | 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

## ANNEXURE

### 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<br>Unit III<br>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<br>Unit IV<br>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<br>Nursing Foundation - 1 hr.<br>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                        | I 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  | I 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                              | I 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. | I 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