

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY  
CHENNAI – 600 032.**



**SYLLABUS FOR THE POST BASIC B.Sc DEGREE  
COURSE IN NURSING  
2010- 2011**

*Modified up to 41st Standing Academic Board held on  
14.6.2011.*

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**The Tamil Nadu Dr.MGR. Medical University  
No.69, Anna salai, Guindy, chennai- 6000 032**

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**REGULATION AND SYLLABUS FOR  
POST BASIC B.Sc DEGREE COURSE IN NURSING  
2010 – 2011**

**The University emblem symbolizes various systems of medicine and Para medical systems. It also depicts the global character of preventive, promotive, and curative medicine. The motto “HEALTH FOR ALL” reflects all the objectives of this medical university.**

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# **PHILOSOPHY AIMS AND OBJECTIVES**

## **PHILOSOPHY**

(Adapted from Indian Nursing Council )

INC believes that:

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National Health policies and program. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of Nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral sciences, medicine and nursing.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals and groups.

Undergraduate nursing program is broad based education within an academic framework, specifically directed to the development of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self directed learning and foster an attitude of life long learning.

Under graduate nursing education program prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

# **AIMS**

The aim of the undergraduate nursing program is to:

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

## **OBJECTIVES**

On completion of Post Basic B.Sc. Nursing Degree program 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 competencies in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioural sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals, groups in community health settings.
7. Demonstrate managerial skills in community health settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilize research findings in improving nursing practice.
10. Recognize the need for continued learning for their personal and professional development.

# **THE TAMILNADU DR.M.G.R. MEDICAL UNIVERSITY CHENNAI**

## **REGULATIONS OF POST BASIC B.Sc. NURSING**

In exercise of the powers conferred by section 44 of the Tamil Nadu Dr.MGR Medical university, Madras Act, 1987 (Tamil Nadu Act, 37 of 1987), the standing Academic Board of the Tamil Nadu Dr.MGR Medical University, hereby makes the following regulations:

### **SHORT TITLE AND COMMENCEMENT**

These regulations shall be called “REGULATIONS FOR THE POST BASIC B.Sc., DEGREE COURSE IN NURSING OF THE TAMILNADU DR.MGR MEDICAL UNIVERSITY, CHENNAI”

They shall come into force from the academic year 2010-2011 onwards.

The regulations framed are subject to modifications from time to time by the standing Academic Board.

### **1. ELIGIBILITY FOR ADMISSION**

Candidates belonging to all categories for admission to the course of Post Basic B.Sc. Nursing

- Should have qualified in Diploma in Nursing and be a registered Nurse and Midwife in the Tamil Nadu Nursing Council or any other State Nursing Council also register in the Tamil Nadu Nursing Council accepted by the authority of this University.
- After GNM with the Registration certificate from the State Nursing Council, the candidate can be permitted to join in Post Basic B.Sc. Nursing without work experience.
- If the registration certificate cannot be obtained immediately, the original evidence for registration in the form of receipt or any other authenticated document from the office of the State Nursing Council will be acceptable in lieu of the Registration Certificate.
- A male nurse, trained before the implementation of the new integrated course besides being registered as a nurse with State Nurses Registration Council, shall produce evidence of training approved by Indian Nursing Council for a similar duration in lieu of in any one of the following areas:

- O.T. Techniques
- Ophthalmic Nursing
- Leprosy Nursing
- TB Nursing
- Psychiatric Nursing
- Neurological and Neuro Surgical Nursing
- Community Health Nursing
- Cancer Nursing
- Orthopedic Nursing
- Occupational Nursing

(e) To be eligible for admission to this course, a candidate shall have:

- i) Passed the Higher Secondary or Senior Secondary or Intermediate or 10+2 or an equivalent examination recognized by the University for this purpose. Those who have done 10 + 1 in or before 1986, will be eligible for admission.
- ii) Obtained a certificate in General Nursing and Midwifery and registered as R.N.R.M. with the State Nurses Registration Council.
- iii) Every candidate before admission to the course shall submit to the Principal of the institution a certificate of medical Fitness from an authorized medical officer that the candidate is physically fit to undergo the academic course.

## **2. UPPER AGE LIMIT**

There shall be no upper age limit for admission to the first year of Post Basic B.Sc. Degree Course in Nursing.

## **3. ELIGIBILITY CERTIFICATE:**

Candidates before seeking admission to any one of the affiliated Nursing colleges shall obtain an Eligibility Certificate from the University by remitting the prescribed fees along with the application form.

## **4. REGISTRATION:**

A Candidate admitted in the Post Basic B.Sc. Degree Course in Nursing in any one of the affiliated institutions of this University shall register his / her name with this university by submitting the prescribed application form for registration duly filled, along with the prescribed fee and a declaration in the format to the Academic Officer of this University through the affiliated institution within 60 days from the cut-off date prescribed for the course for admission. The applications should have date of admission of the course.

## **5. MIGRATION/TRANSFER OF CANDIDATES**

As per the Regulations prescribed by the University

## **6. DURATION OF THE COURSE**

The duration of certified study for the Post Basic B.Sc. Degree course in Nursing shall extend over a period of two academic years.

## **7. COMMENCEMENT OF THE COURSE**

The course will commence from **1<sup>st</sup> August of the academic** year.

## **8. MEDIUM OF INSTRUCTIONS**

English shall be the Medium of Instruction for all the Subjects of study and for examinations of the Post Basic B.Sc. Nursing.

## **9. CURRICULUM**

The Curriculum and the syllabus for the course shall be as prescribed from time to time by the Standing Academic Board of this University.

## **10. RE-ADMISSION AFTER BREAK OF STUDY**

The regulations for re-admission are as per the University Common Regulation for Re-admission after break of study for all courses.

## **11. WORKING DAYS IN THE ACADEMIC YEAR**

Each academic year shall consist of not less than **270 working days**.

## **12. ATTENDANCE REQUIRED FOR ADMISSION TO EXAMINATIONS**

(a) No candidate shall be permitted to appear in any one of the part of Post Basic B.Sc. Nursing Degree Course Examinations unless he/she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University and has produced the necessary certificate of study, attendance and progress from the head of the institution.

(b) A candidate is required to put in minimum of **90%** of attendance in both theory and practical separately in each subject before admission to the examinations.

(c) The classes for Under Graduate students will commence from 1<sup>st</sup> August of every year and the University examination will commence from 1<sup>st</sup> August of the subsequent year. Therefore, the attendance will be calculated for the Under Graduate students from 1<sup>st</sup> August of the same year to 31<sup>st</sup> July of the next year including examination period.

(c) If the candidate is lacking attendance in any one of the subject(s), he/she will be detained for the subject(s) in which the candidate lacks attendance but will be permitted to appear for the rest of the subjects in which the candidate is having minimum required percentage of attendance.

(d) A candidate must have 100% attendance in each of the practical areas before award of Degree.



### 13. CONDONATION FOR LACK OF ATTENDANCE

There shall be no condonation for lack of attendance. .( There shall be no condonation of any leave for any reason including Pregnancy, Child Birth, Medical conditions of any nature ).

### 14.VACATION

The Heads of Institutions shall declare **3 (three) weeks of vacation** in an academic year to the students. **The period(s) of vacation can be decided by the Head of the Institution.**

### 15. INTERNAL ASSESSMENT MARKS

The Internal Assessment should consist of the following points for evaluation:

Theory  
Practical/Oral

#### ***WEIGHTAGE OF MARKS***

***THEORY 50 MARKS (common to all subjects)***

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

***PRACTICAL 50 MARKS (common to all practical )***

<i>Practical Examination</i>	<i>25 marks</i>
<i>Clinical Evaluation</i>	<i>10 marks</i>
<i>Case study/case book</i>	<i>5 marks</i>
<i>Practical record</i>	<i>5 marks</i>
<i>Observational /field visit</i>	<i>5 marks</i>

**100 Marks for English** which is internal subject to be conducted at the institution level and the minimum pass of 50% marks to be sent to the University.

(a) Regular periodic assessment shall be conducted throughout the course. A minimum of three written examinations shall be conducted in each subject during a year. The written examination preceding the University examination may be similar to the pattern of University examination. The average marks of the three performances shall be taken into consideration for the award of internal assessment marks.

(b) A minimum of one practical examinations shall be conducted in each subject (wherever practical have been included in the curriculum) and grades of ongoing clinical evaluation to be considered for the award of sessional marks.

(c) A failed candidate in any subject should be provided an opportunity to improve her/his internal assessment marks by conducting a minimum of two examinations in theory and practical separately and the average may be considered for improvement

(d) If a failed candidate does not appear for any “Improvement Mark Examinations” in the failed subject (s) the internal marks awarded for the previous examination shall be carried over for his subsequent appearance(s).

**The uniform dates for submission of Internal Assessment Marks are as follows:**

At the end of October, January, April & and the aggregate of **Final Internal Assessment Marks on or before 10<sup>th</sup> July.**

The aggregate of Final Internal Assessment Marks shall be submitted on or before **10<sup>th</sup> July/10<sup>th</sup> January** as per scheme of examination of the University. A minimum of 50% of marks is mandatory in theory and practical separately in each subject/practical for permitting the candidates to University Examinations.

**16. CUT-OFF DATES FOR ADMISSION TO EXAMINATIONS**

(i) 30<sup>th</sup> September of the academic year concerned.

(ii) Candidates admitted up to **30<sup>th</sup> September of the academic year shall be registered to take up their first year examinations from 1st August of the ensuing Academic Year.**

(iii) All kinds of admission shall be completed on or before 30<sup>th</sup> September of the academic year. There shall not be any admission after 30<sup>th</sup> September even if seats are vacant.

**17. SUBMISSION OF RECORD NOTE BOOKS**

The concerned Head of the Department shall evaluate the Practical Record (Internal Evaluation) and the Practical Record shall be submitted to the Principal 15 days prior to the commencement of the theory examination and to be presented to the external university practical examiner.

At the time of Practical Examination, each candidate shall submit to the Examiners his / her Practical Record Book duly certified by the Head of the Department as a bonafide record of the work done by the candidate.

## 18. COURSE OF INSTRUCTION

### FIRST YEAR

S. No.	Subject	Hours Theory	Hours Practical	Hours
1.	Nursing Foundation	60	--	
2.	Nutrition & Dietetics	50	20	
3.	Biochemistry & Biophysics.	80	--	
4.	Psychology	80	20	
5.	Maternal Nursing	90	300	
6.	Child Health Nursing	90	300	
7.	Microbiology	70	30	
8.	Medical & Surgical Nursing	120	300	
9.	English*	60	--	
10	Library			30
	<b>Total</b>	<b>700</b>	<b>970</b>	<b>30</b>

### SECOND YEAR

S.No.	Subject	Hours Theory	Hours Practical	Hours
10.	Sociology	90	--	
11.	Community Health Nursing	100	300	
12.	Mental Health Nursing	100	300	
13.	Introduction to Nursing Education	100	90	
14.	Introduction to Nursing Administration	100	220	
15.	Introduction to Nursing Research and Statistics	70	180	
16	Library			50
	<b>Total</b>	<b>560</b>	<b>1090</b>	<b>50</b>

## 19. SCHEME OF EXAMINATIONS

### FIRST YEAR-

#### **THEORY**

<b>Paper</b>	<b>Subject</b>	<b>Duration</b>	<b>Internal</b>	<b>University</b>	<b>Total Marks</b>
1.	Nursing Foundation	2	50	50	100
2	Nutrition* & Dietetics*	2	50	50	100
3.	Biochemistry* & Biophysics*	3	50	100	150
4.	Psychology	3	50	100	150
5	Maternal Nursing	3	50	100	150
6	Child Health Nursing	3	50	100	150
7	Microbiology	3	50	100	150
8	Medical & Surgical Nursing	3	50	100	150
9	English**		100	-----	100

#### **PRACTICAL**

	<b>Subject</b>	<b>Duration</b>	<b>Internal</b>	<b>University</b>	<b>Total Marks</b>
1.	Medical & Surgical Nursing	--	50	50	100
2.	Maternal Nursing	--	50	50	100
3.	Child Health Nursing	--	50	50	100

**\* The student should get pass marks in each subject ( Section A and B)**

**\*\* The respective Colleges will conduct examinations for English and the marks will be sent to the University.**

## **SECOND YEAR**

### **THEORY**

<b>Paper</b>	<b>Subject</b>	<b>Duration</b>	<b>Internal</b>	<b>University</b>	<b>Total Marks</b>
1	Sociology	3	50	100	150
2	Community Health Nursing	3	50	100	150
3	Mental Health Nursing	3	50	100	150
4	Introduction to Nursing Education	3	50	100	150
5	Introduction to Nursing Administration	3	50	100	150
6	Introduction to Nursing Research & Statistics*		50	--	50

*\* Respective colleges will conduct the examination and the marks will be sent to the University.*

### **PRACTICAL**

	<b>Subject</b>	<b>Duration</b>	<b>Internal</b>	<b>University</b>	<b>Total Marks</b>
1.	Community Health Nursing	--	50	50	100
2.	Mental Health Nursing	--	50	50	100
3.	Research Project *	--	50	---	50

*\* Respective colleges will conduct the examination and the marks will be sent to the University.*

## **20. COMMENCEMENT OF THE EXAMINATIONS**

1<sup>st</sup> August /1<sup>st</sup> February. If the date of commencement falls on Saturdays, Sundays or declared Public holidays, the examination shall begin on the next working day.

## **21.DISTRIBUTION OF TYPE OF QUESTION PATTERN FOR 100 MARKS**

### **Distribution of marks 100 (COMMON TO ALL SINGLE SUBJECTS)**

Essay questions                      2x20 = 40 marks

Short Notes                              8x5 = 40 marks

Short Answers                          10x2 =20 marks

## **Distribution of marks 50 (COMMON TO ALL 50 MARKS SUBJECTS)**

Essay questions	1x 20 = 20marks
Short Notes	4 x 5 = 20 marks
Short Answers	5x 2 = 10 marks

## **22. MARKS QUALIFYING FOR A PASS**

A candidate shall be declared to have passed the examinations, if he/she obtains the following qualifying marks:

50% of marks in the subjects where internal evaluation alone is conducted at the institution level.

50% of marks in the University theory examinations.

50% of marks in University practical examination.

50% of marks in aggregate in theory, practical and internal assessment marks taken together.

50% of marks in each Section A& B separately where two subjects are combined in single paper. If a candidate who has failed to secure the minimum pass mark of 50% either in Section A or B, the candidate has to write again both the Sections irrespective the fact whether the candidate has passed in one Section

## **23. CARRY- OVER OF FAILED SUBJECTS**

(a) A Candidate is permitted to carry over a maximum of three subjects to the next academic year. The candidate has to pass the carried over subjects before appearing second year University Examinations.

(b) A candidate who has failed in more than three subjects shall not be permitted to undergo study and training of the next year.

(c) The failed candidates can appear for the ensuing February/August examinations.

(d) Only three attempts are allowed in each subjects including first attempt.

## **24. PRACTICAL EXAMINATION**

Maximum number of candidates for practical examination should not exceed 20 per day.

The examiner should be a Lecturer or above in a College of Nursing with M.Sc. (N) in concerned subject and minimum of 5 years of teaching experience.

To be an examiner for Nursing Foundations subject faculty having M.Sc.(N) with any specialty shall be considered.

## **25. EXAMINERS**

One **internal** and one **external** examiner should jointly conduct practical/oral examination for each student.

## **26. REVALUATION / RETOTALLING OF ANSWER PAPERS**

**Revaluation of answer papers is not permitted. Only re-totalling of theory answer papers is allowed in the failed subjects** if it is applied through the institution.

## **27. AWARD OF MEDALS AND PRIZES**

The University shall award at its Convocation Medals and Prizes to outstanding candidates as and when instituted by the donors as per the prescribed terms and condition for the award of the same.

## **28. AUTHORITY TO ISSUE TRANSCRIPT OF MARKS**

The University shall be the Authority for issuing Transcript after remitting the prescribed fee.

**ANNEXURE-I**  
**DECLARARTION**

I -----Son of / Daughter of -----  
-----Residing at -----and admitted to in I  
year of ----- (Name of the Course ) at -----  
----- (Name of the College) do hereby solemnly affirm  
and sincerely state as follows.

I declare that I shall abide by the rules and regulations prescribed by the Tamil Nadu Dr.  
M.G.R Medical University, Chennai for the ----- (course) including  
regulations for re-admission after the break of study.

Date:

signature of candidate

/ Counter signed/

(Official date seal)

Dean/Principal/ Director



# **NURSING FOUNDATION**

Placement: 1<sup>st</sup> Year

Time allotted: Theory 60 Hours

## **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. Utilize 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 - NURSING AS A PROFESSION 10 Hours**

- 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 -CONCEPT OF HEALTH AND ILLNESS IN NURSING**

**10 Hours**

- 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 – NURSING THEORIES**

**05 Hours**

- 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 / PROBLEM SOLVING APPROACH**

**15 Hours**

- 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**

**05 Hours**

- Quality assurance nursing standards nursing audit total quality management.
- Role of council and professional bodies in maintenance of standards

#### **UNIT VI – CURRENT TRENDS IN HEALTH & NURSING 15 Hours**

- Primary health care concept:
  - community oriented nursing
  - holistic nursing
  - primary nursing
- Family oriented nursing concept
  - problem oriented nursing
  - progressive patient care
  - team nursing

#### **METHODS OF TEACHING**

1. Lecture cum discussion
2. Role Play
3. Filed trips
4. Clinical practice

#### **METHODS OF EVALUATION**

Written assignments  
 Seminars  
 Oral Presentations  
 Written and practical exams  
 Poster presentations  
 Clinical experience record

#### **WEIGHTAGE OF MARKS 50**

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

Reference:

1. Perry, A.G. & Potter, P.A.: Basic nursing essentials of practice; 5th ed. St. Louis, Mosby, 2003
2. Beverly Witler Dugas : Introduction to patient care in compressive approach to Nursing 4th ed., Saunders, 2002
3. Luckmann, J & Sorensen, K.C.: Basic nursing: a psychophysiologic approach ; 3<sup>rd</sup> ed., W. B. Saunders, 2002
4. Kozier B, Erb, G & Oliver, R : Fundamentals of Nursing ;4th ed. California, Addison Wesley., 1991
5. Park, J.E. :Text book of preventive and social medicine ; 17th ed., Banarasidas Bhanot, 2003.
6. A Community Health Nursing Manual prepared by “Trained Nurse’s Association of India.3<sup>rd</sup> Edition
7. Fundamental of Nursing prepared by “Trained Nurses Association of Indian, 1<sup>st</sup> Edition.

# NUTRITION & DIETETICS

Placement: 1<sup>st</sup> Year

Time allotted: Theory - 50 Hrs  
Practical -20 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

**12 Hours**

- 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 - DIET THERAPY

**12 Hours**

- Introduction to diet therapy
- Routine hospital diets

**Practical 20 Hours**

- 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 – CHILD NUTRITION**

**16 Hours**

- 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**

**10 Hours**

- 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 programs

## **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.

## **METHODS OF EVALUATION**

1. Written tests
2. Assignment
3. Practical

## **METHODS OF TEACHING**

Lecture cum discussion  
Cooking Demonstration  
Field visit

## **WEIGHTAGE OF MARKS 50**

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

## Reference:

1. Corinne H. Robinson Normal & Therapeutic Nutrition Macmillan Publishing company — New York (1986) — 7th Edition.
2. Srilakshmi Dietetics New Age international (P) Limited, Publishers, Bangalore (1995)— 1” Edition.
3. Sue Rodwell Williams Clinical Dietetics & Nutrition Mosby India yr; (2001) — 11th Edition,
4. Antia Clinical Dietetics & Nutrition Oxford Publishing year ‘1989) — 3<sup>rd</sup> Edition
5. Paul Insel R. Elaine Turner Don Ross Jones & Balleli (2002) London — 1 Edition,
6. Swaminathaji, N. M. Hand book of Food & Nutrition, Publication, Bangalore, 1982.
7. Gopalan C. Nutrition value of Indian foods, J,i st ! .diLIOH, I 9 I National Institute of Nutrition, Elyderab ad. IVt’.1 R.
8. Beck, M.. E. Nutrition and Dietetics for Nurses. Latest Edition, Churchill Livingstone — Longinan Group Let.
9. Williams S. R. Mowrfs Basic Nutiition and Diet T]ieap’. 6 Edition, 1980, c. V. Mosby Cipany.
10. Recommended dietary intakes of Indians, 1987, Indian Council of Medical Research, New Delhi.



# BIOCHEMISTRY & BIOPHYSICS

Placement : 1<sup>st</sup> Semester

Time allotted :

Section A (Biochemistry) Theory -40 Hrs

Section B (Biophysics) Theory -40 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 -40 Hrs**

## COURSE CONTENTS

### UNIT I – INTRODUCTION

**04 Hours**

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

### UNIT II - FLUID AND ELECTROLYTES

**06 Hours**

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

### **UNIT III – ENZYMES**

**04 Hours**

- Mechanism of action
- Factors affecting enzyme activity
- Diagnostic applications
- Precautions for handling specimens for enzyme estimation

### **UNIT IV – CHEMISTRY OF CARBOHYDRATES**

**10 Hours**

- 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.
- Various factors influencing the digestion and absorption
- Mal Absorption Syndrome

### **UNIT V - CHEMISTRY OF PROTEINS**

**10 Hours**

- Amino acids hormones.
- Essential amino acids. Bio-synthesis 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.
- Various factors influencing the digestion and absorption
- Mal Absorption Syndrome

### **UNIT VI – CHEMISTRY OF LIPIDS**

**06 Hours**

- Bio-synthesis 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.
- Various factors influencing the digestion and absorption
- Mal Absorption Syndrome

### **SUGGESTED PRACTICALS**

Biochemical tests of blood and urine.  
 Liver function tests  
 Kidney function tests  
 Visit to Biochemical Lab.

### **METHODS OF TEACHING**

1. Lecture cum discussion
2. Demonstration
3. Lab visit
4. Practical work record

### **METHODS OF EVALUATION**

Written Test  
 Record Book  
 Assignments  
 Oral Presentations

### ***WEIGHTAGE OF MARKS 25***

<i>Term test</i>	<i>15marks</i>
<i>Assignment</i>	<i>10 marks</i>

## **Section B : Biophysics**

### **COURSE CONTENTS**

**Theory -40 Hours**

#### **UNIT I – INTRODUCTION**

**04 Hours**

- Concepts of unit and measurements
- Fundamental and derived units
- Units of length, weight, mass, time

#### **UNIT II – MOTION**

**03 Hours**

- Vector and scalar motion speed velocity and acceleration.

#### **UNIT III - GRAVITY**

**03 Hours**

- 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**

**04 Hours**

- Their units of measurement.
- Type and transformation of energy forces of the body static forces
- Principles of machines friction and body mechanics.
- Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw
- Application of these principles in nursing

#### **UNIT V - HEAT**

**06 Hours**

- 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**

**03 Hours**

- Laws of reflection.
- Focusing elements of the eye, defective vision and its correction use of lenses
- Relationship between energy, frequency and wavelength of light
- Biological effects of light
- Use of light in therapy
- Application of these principles in nursing.

## **UNIT VII – PRESSURE**

**03 Hours**

- Atmospheric pressure, hydrostatic pressure, osmotic pressure
- Measurements of pressures in the body
  - Arterial and venous blood pressures
  - Ocular pressure
  - Intra cranial pressure
  - Applications of these principles in nursing.

## **UNIT VIII - SOUND**

**03 Hours**

- Frequency, Velocity and Intensity
- Vocalization and hearing
- Use of ultrasound. Noise pollution and its prevention
- Application of these principles in nursing.

## **UNIT IX - ELECTRICITY AND ELECTROMAGNETISM 06 Hours**

- 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 defibrillator
- Magnetism and electricity
- MRI Scanning. CAT Scan

## **UNIT X - ATOMIC ENERGY**

**03 Hours**

- 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**

**02 Hours**

- Common electronic equipments used in patient care.

## **PRACTICUM**

- Experiments and Tests should be demonstrated wherever applicable.

## **METHOD OF TEACHING**

- Lecture, Discussion, Demonstration

## **METHOD OF EVALUATION**

- A Written Test, Assessment

## ***WEIGHTAGE OF MARKS 2 5***

<i>Term test</i>	<i>15 marks</i>
<i>Assignment</i>	<i>10marks</i>

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2. Ambika Shanmugam, Fundamentals of Biochemistry” 7 Ed, Kartik Offset Printers, Chennai, 1998.
3. Dr. A. C. Deb Fundamentals of Bio – Chemistry, 5” Edition, New Central Book Agency (P)Ltd., Kolkata, 1992, Reprint in 1997.
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# PSYCHOLOGY

Placement : 1<sup>st</sup> Year

Time allotted : Theory -80 Hrs  
Practical -20 Hrs

## COURSE DESCRIPTION

This course is designed to reorient and widen the student 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 behavior . The 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

**06 Hours**

### UNIT I – INTRODUCTION

- Definition of psychology scope and method psychology
- Relationship with other subjects.

### UNIT II - SENSATION ATTENTION AND PERCEPTION

**06 Hours**

**Practical 05 Hours**

- Definitions
- Sensory processes : Normal and abnormal
- Attention and distraction : contributory factors.



- Characteristics of perception Perception Normal and abnormal

### **UNIT III - MOTIVATION**

**06 Hours**

- Definition and nature of motivation
- Biological and social motives
- Frustration and conflicts
- Self –actualization

### **UNIT IV – EMOTIONS**

**06 Hours**

- Definition of emotions Expression and perception
- Emotions in sickness
- Theories – Emotion and Feelings
- Psychosomatic disorders

### **UNIT V – PERSONALITY**

**06 Hours**

**Practical 05 Hours**

- Definition Constituents of personality
- Personality in sickness and nursing
- Theory
- Assessment

### **UNIT VI - PSYCHOLOGICAL ASPECTS OF NURSING**

**08 Hours**

- Behaviour and sickness
- Psychological needs of
  - Child and adolescents
  - Adult

- Aged
- Attendants
- Chronically ill individual

**UNIT VII - INDIVIDUAL DIFFERENCE.**

**05 Hours**

- 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**

**08 Hours**

**Practical 10 Hours**

- Definition
- Intelligence and abilities during sickness.
- Measurement of intelligence and abilities

**UNIT IX - LEARNING**

**06 Hours**

- Definition Conditions of learning
- Laws of learning
- Learning during health and sickness

**UNIT X - MEMORY AND FORGETTING**

**06 Hours**

- Definition and nature of memory
- Memory during health and sickness
- Forgetting during health and sickness

**UNIT XI – ATTITUDES**

**06 Hours**

- Definition Development and modification

- Role of attitudes in health and sickness.

## **UNIT XII – MENTAL HEALTH AND ILLNESS**

**06 Hours**

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

## **UNIT XIII – LIFE SPAN DEVELOPMENT**

**05 Hours**

- Growth and Development
- Pre-natal period to old age

### **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.

### **METHOD OF TEACHING**

Lecture  
 Discussion  
 Demonstration  
 Observation visit  
 Seminars

### **METHOD OF EVALUATION**

1. Written test
2. Assignment
3. Field Reports

***WEIGHTAGE OF MARKS 50***

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

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- Hurlock, Elizabeth R. *Developmental Psychology*, Ed. 5. New Delhi, Tata Mcgraw - Hill Publishing Co., Ltd., 1980.
- Luge, James D. and Hershey, Gerald L. *Living Psychology*. Ed. 3, New Delhi, Maniilan publishing co., mc, 1981
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- Morris, Charles G. *Psychology An Introduction*, Ed. 3., Newjersy, Prentice - Hall Inc. Englawood cliffs, 1979.
- Bernard J. R. Thompson, L, *Sociology*, St. Louis Tli C. V. NIobv Co 1966.
- Hillgrad uzd kinson — *Introduction to Psychology* Tata Mcaw Hill - Publishing.
- Dr. S. Radhakrishnan. Ph.D.. “introduction to Pyc1iology” A guide o j.uraiiwlical students with Multiple Choice : Questions.

# **MATERNAL NURSING**

Placement : 1<sup>st</sup> Year

Time allotted : Theory - 90 Hrs

Practical - 300 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 child bearing mother in a hospital or community and help in the management of common gynecological problems.

## **OBJECTIVES**

At the 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 management of breast feeding
4. Be skilled in providing pre and post operative nursing in obstetric conditions
5. Identify and manage high risk pregnancy including appropriate referrals.
6. Propagate the concept and motivate acceptance of families planning methods
7. Teach, guide and supervise auxiliary midwifery personnel.

## **COURSE CONTENTS**

### **UNIT-I – INTRODUCTION TO MATERNITY & HISTORICAL REVIEW** **05 Hours**

- Introduction and historical review
- Planned parenthood
- Maternal morbidity and mortality rates
- Legislations related to maternity benefits, MTP acts, incentives for family planning etc
- Family welfare programme.

### **UNIT II – REVIEW OF FEMALE REPRODUCTIVE SYSTEM** **05 Hours**

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

### **UNIT III – PREGNANCY , LABOUR AND PUERPERIUM** **30 Hours** **Practical 150 Hours**

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

### **UNIT IV – NURSING CARE OF NEW BORN** **10 Hours** **Practical 50 Hours**

- The New born baby
- Care of the baby at birth including resuscitation

- Essential Newborn Care
  - Feeding
  - Jaundice and infection
  - Small & large for date babies
  - Intensive care of the new born
  - Trauma and hemorrhage

## **UNIT V – ABNORMAL PREGNANCIES, LABOUR AND PUERPERIUM**

**25 Hours**  
**Practical 60 Hours**

- Management of abnormal pregnancy, labour and puerperium
- Abortion, entopic pregnancy and vesicular mole
- Pregnancy induced hypertension, gestational diabetes, anemia, 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
  - Puerperal sepsis
  - Post partum haemorrhage
  - Inversion and prolapse of uterus, obstetrical emergencies
  - Obstetrical operation i.e forceps, vacuum, episiotomy cesarean section

## **UNIT VI – DRUGS IN OBSTETRICS**

**05 Hours**

- Drugs in obstetrics
- Effects of drugs during pregnancy, labour and puerperium mother & baby

## **UNIT VII – MCH PROGRAMES**

**10 Hours  
Practical 40 Hours**

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

## **PRACTCUM**

1. The students will
  - a. Be posted in antenatal Clinic, MCH clinic antenatal ward labour room Postnatal ward maternity OT
  - b. Visit welfare agencies for women and write observation report
  - β. Follow nursing process in providing care to 3-6 patients
  - χ. Write at least two nursing care studies and do a presentation
  - δ. Give at least one planned health teaching to a group of mothers
2. Practice following nursing procedures
  - α. Antenatal & Post natal examination, per vaginal exam.
  - β. conduct normal delivery stitching of episiotomy (For male candidates minimum conduct of 5 deliveries)
  - χ. Motivation of family for adopting family planning methods



- δ. Motivate family for planned parenthood.
- ε. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

**METHOD OF TEAHCING**

- 1. Lecture and Discussion
- 2. Demonstration
- 3. Class Teaching
- 4. Clinical Presentation
- 5. Nursing Care Study & Care Note
- 6. Seminar & Symposium
- 7. Field Visit
- 8. Project Presentation

**METHOD OF EVALUATION :**

- 1. Written Test
- 2. Assessment of Seminar & Projects
- 3. Evaluating of Clinical Practice and Clinical Experience Record
- 4. Evaluating Care Note and Care Plan
- 5. Suggested Practicals

***WEIGHTAGE OF MARKS***

<i>Theory</i>	<i>50 MARKS</i>	<i>Term test</i>	<i>30 marks</i>
		<i>Assignment</i>	<i>20marks</i>

***PRACTICAL 50 MARKS***

<i>Practical Examination</i>	<i>25 marks</i>
<i>Clinical Evaluation</i>	<i>10 marks</i>
<i>Case study/case book</i>	<i>5 marks</i>
<i>Practical record</i>	<i>5 marks</i>
<i>Observational /field visit</i>	<i>5 marks</i>

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3. MUDALIAR' & Menon Clinical Obstetrics. Oiiint Longman, Chennai, 1978.
4. PARULKAR, Shashank V. : Text book for Midwives, Vofa Medical Publications, Bombay, 1988.
5. RAJA Ramaknshnan, Obstetrics & Foetal Medicine S C1rnd & Company Ltd, New Delhi, 1983
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8. Kalyani. Mukerjee, Practical Obstetrics & Gynaecology, Ed I Vijyoya Publications, Calcutta, 1999.
9. Lisa Rowaland, Patients outcome in Maternal Infant Nursing, Spring House Corporation,Pennsylvania.
- 10.Katharyan. A. May: Maternal and Neonatal Nursing, Ed. B LippinCott Company, Philadelphia, 1994.

# CHILD HEALTH NURSING

Placement : 1<sup>st</sup> Year

Time allotted : Theory -90hrs  
Practical -300hrs

## COURSE DESCRIPTION

This course is aimed at developing an understanding of the modern approach to childcare the common health problems of children 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 child health nursing
2. Describe the normal growth and development of children different ages.
3. Manage sick as well as healthy neonates and children
4. Identity various aspects of preventive pediatric nursing and them in providing nursing care to children in hospital community.

## COURSE CONTENTS

### UNIT I - INTRODUCTION

**08 Hours**

- Child care through the ages
- Modern concept of child care
- Internationally accepted rights of the child
- National policy and legislations in relation to child health 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
- Principles of pre and post operative care of infants and children
- Meaning of illness to child and family
- Preventive paediatric, Review immunization

## **UNIT II – THE NEW BORN**

**12 Hours**  
**Practical 30 Hours**

- Review fertilization and foetal development
- Definition of relevant terms
- Education and preparation of the family for the arrival of the newborn and for breast feeding.
- Care of the new born
- Care of the low birth weight and small for date and preterm babies
- High risk new born
- Neonatal with congenital anomalies

## **UNIT III – GROWTH AND DEVELOPMENT**

**12 Hours**  
**Practical 30 Hours**

- Definition, factors influencing growth and development
- Types of growth and development
- Laws governing the growth and development
- Different stages of human development

0 - 1 Year : Infant

1 – 3 years : Toddlers

3 – 6 Years : Pre-School

6 – 12 Years : School age

12 – 18 years : Adolescent

The needs of normal children through the stages of development and parental guidance.

#### **UNIT IV – ASSESSMENT**

**04 Hours**  
**Practical 10 Hours**

- Health History
- Physical Development Screening Test
- Speech, Vision and Hearing Test
- Use of Specific Charts and Records
- Road to Good Health
- Reaction of Maternal Deprivation

#### **UNIT V – ILLNESS AND THE CHILD**

**04 Hours**  
**Practical 20 Hours**

- The differences in illness in children and adults
- The type of the illness in children
- The role of a paediatric nurse in caring for a hospitalized child.
- Nutritional needs of children / infants breast feeding, supplementary / artificial feeding and weaning.
- Accidents, causes and prevention
- Value of play and selection of play material.

#### **UNIT VI – PAEDIATRIC VARIATION OF NURSING INTERVENTIONS / PROCEDURES**

**05 Hours**  
**Practical 30 Hours**

- Restraining and Positions
- Collecting specimens.

- Enemata
- Calculation of Dosage of drugs
- Administration of medications
- LV fluids administration
- Tube feeding
- Oxygen administration, types of administration
- Cardiopulmonary resuscitation
- Assisting with painful procedures
- Examination / Assessment of newborn
- Care of children in the incubator
- Phototherapy
- Assist in exchange transfusion and other therapeutic procedures.

## **UNIT VII – COMMON DISEASES / DISORDERS OF CHILDREN**

**45 Hours**

**Practical 180 Hours**

- Etiology and magnitude of the problem
  - Pathophysiology signs and symptoms, investigations, medical and surgical management, nursing process and home care.
- A. Respiratory Dysfunction:
- Acute Respiratory Infection.
  - Upper Respiratory Tract
  - Lower Respiratory Tract
  - Bronchopneumonia
  - Emphysema
  - Bronchitis
  - Tuberculosis
  - Bronchial Asthma

- Respiratory Failure
- Respiratory Distress Syndrome

#### B. Gastrointestinal Disorders:

- Diarrhoea.
- Helminthic Infestations.
- Peptic Ulcer.
- Acute Hepatitis, Cirrhosis of Liver.
- Cleft Lip and Palate.
- Esophageal Atresia — Tracheo Esophageal Fistula.
- Hypertrophic Pyloric Stenosis.
- Intestinal Obstruction.
- Hernias.
- Hirschsprung's Disease.
- Acute Appendicitis.
- Meckel's Diverticulum.
- Ulcerative Colitis.
- Imperforated Anus
- Biliary Atresia

#### X. Nutritional Deficiency Disorders:

- Marasmus.
- Protein - Calorie Malnutrition.
- Vitamin deficiencies

#### Δ. Cardiac Disorders:

- Cyanotic Heart Disease
- Acyanotic Heart Disease
- Endocarditis

- Rheumatic Fever
- Rheumatic Heart Disease

### **E. Disorders of the Blood Forming Organs:**

- Erythroblasto foetalis
- Anaemias : Iron deficiency, Sickle cell and Aplastic
- Thalassemia
- Hemophilia, Thrombocytopenic purpura
- Epistaxis
- Leukaemia
- Lymphomas

### **F. Genito Urinary Disorders:**

- Urinary Tract Infection, Nephrotic Syndrome
- Acute Glomerulonephritis
- Chronic Glomerulonephritis
- Hemolytic Uremic Syndrome
- Renal failure
- Wilm's Tumour.
- Defects of Genito Urinary Tract : Hypospadiasis, epispadiasis, undescended testis.

### **G. Neurological Disorders**

- Congenital Malformations
- Spinabifida, Meningocele,
- Meningomyelocde.
- Hydrocephahis, Micro and Macro cephalus
- Cranio Cerebral Trauma (Head Injuries ).



- Brain Tumours, Neuroblastoma
- Brain Abscess.
- Bacterial and Non-bacterial Meningitis, Encephalitis.
- Convulsive Disorders.

#### H. Endocrine Dysfunction:-

- Dwarfism, Gigantism and Acromegaly.
- Diabetes Insipidus
- Cretinism, Goitre, Hyperthyroidism, Parathyroid, Hyper and Hypo Function.
- Addison's Disease, Cushion's Syndrome
- Diabetes Mellitus

#### I. Integumentary Dysfunction:

- Scabies
- Impetigo
- Seboric Dermatitis
- Burns

#### J. Disorders of Eye

- Congenital Deformities
- Conjunctivitis
- Keratomalacia
- Blindness

#### K. Disorders of Ears

- Congenital Anomalies
- Otitis Media
- Tonsillitis, Laryngitis
- Hearing loss

## **L. Skeletal Dysfunction**

- Fractures.
- Congenital Deformities - Club Foot.
- Hip Displacement.
- Osteomyelitis, Rickets.

## **M. Neuromuscular Dysfunction:**

- Cerebral Palsy.
- Defects of Neural Tube Closure

## **N. Communicable Disease**

- Tetanus
- Poliomyelitis
- Diphtheria, Pertussis, Measles
- Cholera, Typhoid
- HIV Infection

## **O. Paediatric Emergencies :-**

- Poisoning, Foreign bodies, Hemorrhage, Drowning.
- Accidents.

## **P. Management of Behaviour Disorders in Children**

- Management of Challenged Children.
- Mentally Challenged.
- Physically Challenged.
- Socially Challenged.

## **PRACTICUM**

This student will:-

1. Clinical experience in pediatric medical and surgical ward OPD in hospital health centre and neonatal unit.

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

### ***WEIGHTAGE OF MARKS***

<b><i>Theory</i></b>	<b><i>50 MARKS</i></b>	<b><i>Term test</i></b>	<b><i>30 marks</i></b>
		<b><i>Assignment</i></b>	<b><i>20marks</i></b>

### ***PRACTICAL 50 MARKS***

<b><i>Practical Examination</i></b>	<b><i>25 marks</i></b>
<b><i>Clinical Evaluation</i></b>	<b><i>10 marks</i></b>
<b><i>Case study/case book</i></b>	<b><i>5 marks</i></b>
<b><i>Practical record</i></b>	<b><i>5 marks</i></b>
<b><i>Observational /field visit</i></b>	<b><i>5 marks</i></b>

## ***REFERENCES***

1. Achar S. T. & Viswanathan J. “Text Book of Paediatric in developing countries” 3 Ed., 1995, Madras Orient Longman Ld.,
  2. Adele Pilitteri (1999 ), “Child Health Nursing Care the Child and Family 1<sup>st</sup> Ed , Lippincott Pubshser, Philadelphia.
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  7. Margret C Slota, “Core Curriculum for Paediatric Critical Care Nursing”, 1<sup>st</sup> Ed., W.B. Saunders Company. Philadelphia, 1998.
- Nicki L. Post, “Paediatric Nursing – Caring for children and their family”, 1<sup>st</sup> Ed., Delmark Publishers, Australia, 2002.

# MICROBIOLOGY

Placement : 1st Year

Time allotted : theory 70 Hrs

Practical -30 hrs

## COURSE DESCRIPTION

This course is 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 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 – INTRODUCTION

**05 Hours**

- Brief History of Microbiology
- Importance of Microbiology in Nursing
- Microscopes

### UNIT II – STRUCTURES AND CLASSIFICATION OF MICROBES

**08 Hours**

**Practical 04 Hours**

- Morphological types

- Size and form of bacteria
- Motility
- Classification of Micro-organisms

**Practical:**

- Use and care of microscope
- Common examination : smear, Blood, Moulds, Yeasts.

**UNIT III - IDENTIFICATION OF MICRO-ORGANISMS.**

**06 Hours**  
**Practical 04 Hours**

- Discussion of laboratory methods
- Diagnosis of bacterial diseases

**Practical:**

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

**UNIT IV - GROWTH MICROBES**

**08 Hours**  
**Practical 04 Hours**

- Nutrition
- Temperature
- Moisture
- Blood

Practical : Preparation of Media and culture techniques.

- Collection handling and transportation of various specimens.

**UNIT V - DESTRUCTION OF MICRO-ORGANISMS**

**08 Hours**  
**Practical 04 Hours**

- Sterilization and disinfection
- Chemotherapy and antibiotics

- Effects of heat and cold
- Hospital Infection control procedure & role of nurses.

Practical : Sterilization methods- Physical, Chemical and Mechanical

## **UNIT VI - DISEASE PRODUCING MICRO-ORGANISMS**

**08 Hours**

**Practical 06 Hours**

- Gram positive bacilli
- Tuberculosis and Leprosy
- Anaerobes
- Cocci
- Spirochete
- Rickettsiae

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

## **UNIT VII – YEASTS AND MOULDS**

**05 Hours**

- Pathogenic fungi
- Dermatophytes
- Systemic Mycotic infection
- Laboratory diagnosis of mycotic infection

## **UNIT VIII – IMMUNITY**

**06 Hours**

**Practical 06 Hours**

- Immunity and hypersensitivity- skin test
- Antigen and antibody reaction
- Immunization in disease.

**Practical :** Demonstration of serological methods

## **UNIT IX - PARASITES AND VECTORS**

**06 Hours**  
**Practical 02 Hours**

- 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 X - VIRUSES**

**05 Hours**

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

## **UNIT XI - MICRO-ORGANISMS TRANSMITTED**

**05 Hours**

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

## **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 sterilization , immunization, chemotherapy and maintenance of personal and environmental hygiene. Observation visit to



incinerator, posting in CSSD and infection control department.

## **METHOD OF TEACHING**

1. Lecture
2. Discussion
3. Demonstration

## **METHOD OF EVALUATION**

1. Written Tests
2. Assignments
3. Practical and Oral Test

## ***WEIGHTAGE OF MARKS 50***

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

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1. Ananthanarayanan R. "Text Book of Microbiology", Bombay, Orient Jaym Panickat, C. K. Longman, 1981.
2. Probisher, "Fundamentals of Microbiology", Philadelphia, W. B. Saunders Co., 1952.
3. Stewai, Beswick — Bacteriology, Virology, Immunity" London> The English Language Book Society, 1977.
4. Wilson, M. E. Helen Eckel Mizer and Josephine A Mo cue "Microbiology in Patient Care", U.S.A., Mac Milan Co., 1979.

## **MEDICAL SURGICAL NURSING**

Placement : 1<sup>st</sup> Year

Time allotted : Theory 120 Hrs  
Practical -300 hrs

## **COURSE DESCRIPTION**

The purpose of this course is to widen the students knowledge and develop proficiency in caring for patients with medical surgical problem . 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 the body.
2. Explain pathophysiology of various disorders
3. Explain the actions side effects and nursing implication administering drugs for various disorders
4. Discuss the recent advancement in the treatment and care patients with medical surgical conditions
5. Develop skill in giving comprehensive nursing care to patient 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**

**04 Hours**

**Practical 10Hours**

- 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**

**05 Hours**  
**Practical 10 Hours**

- 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.**

**10 Hours**  
**Practical 30 Hours**

- 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 Malformation degenerative diseases.

#### **UNIT IV - NURSING MANAGEMENT OF PATIENT WITH CARDIOVASCULAR PROBLEMS**

**10 Hours**  
**Practical 30 Hours**

- Review of relevant anatomy and physiology of cardio vascular system
- Pathophysiology diagnostic procedures and management of
  - Ischemic Heart diseases
  - Cardiac arrhythmias
  - Congestive heart failure
  - Rheumatic and other valvular heart diseases
  - Endocarditis cardiomyopathies congenital heart diseases hypertension heart block
  - Cardiac emergencies cardiac arrest acute pulmonary oedema cardiac tamponade cardiogenic shock aneurysms and peripherovascular disorders recent advancement in cardiology.
- Acquired disorders – Myocarditis, Endocarditis
- Heart Transplantation
- Nurse's Role in rehabilitation of cardiovascular disorders

#### **UNIT V - NURSING MANAGEMENT OF PATIENT WITH RESPIRATORY PROBLEMS**

**10 Hours**  
**Practical 15 Hours**

- Review of anatomy and physiology of respirator 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 GENITOR-URINARY PROBLEMS**

**08 Hours**  
**Practical 20 Hours**

- Review of anatomy and physiology of the genitor 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 PATIENT WITH PROBLEMS OF THE DIGESTIVE SYSTEMS**

**10 Hours**  
**Practical 30 Hours**

- Review of anatomy and physiology of gastrointestinal system and accessory organs
- Patho physiology diagnostic procedures and management of
  - G.I Bleeding
  - Peptic ulcer
    - Infection
    - Acute abdomen
    - Colitis diarrhea 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**

**08 Hours**  
**Practical 15 Hours**

- Review of anatomy and physiology
- Patho-physiology 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**

**10 Hours**  
**Practical 30 Hours**

- Review of anatomy and physiology
- 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**

**05 Hours**  
**Practical 10Hours**

Disorder of menstruation

- Infections of the genital tract
- Benign and malignant tumors of the genital tract
- R.V.F, V.V.F
- Climacteric changes and associated problems

## **UNIT XI - NURSING MANAGEMENT OF PATIENTS WITH ONCOLOGICAL DISORDERS**

**05 Hours**  
**Practical 10 Hours**

- 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 PATIENTS WITH SKIN DISTRUCTION**

**05 Hours**

**Practical 10 Hours**

- Nursing management of patient with burns

- Nursing management of patient with reconstructive surgeries

**UNIT XIII - NURSING MANAGEMENT OF PATIENTS WITH COMMUNICABLE DISEASES**

**05 Hours**

**Practical 10 Hours**

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

**UNIT XIV - NURSING MANAGEMENT OF PATIENTS WITH DISEASES OF SENSE ORGANS**

**10 Hours**

**Practical 40 Hours**

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

**UNIT XV - NURSING MANAGEMENT PATIENTS WITH BLOOD DISORDERS**

**10 Hours**

**Practical 20 Hours**

- Review of Anatomy & Physiology of Blood and Blood products
- Patho- physiology diagnostic procedures and management blood disorders
  - Anemia
  - Leukemia
  - Bleeding disorders
  - Hemophilia
  - Purpura etc
- Blood transfusion safety checks procedure and requirement management of adverse transfusion reaction records for 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**

**05 Hours**

**Practical 10 Hours**

- cardiac emergencies
- Trauma
- Poisoning
- Crisis management thyroid crisis Hypertensive crisis and crisis.

### **PRACTICUM**

- Students should rotated in the selected medical & surgical areas like Cardio Thoracic Neurology Urology Orthopedices 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.

### **METHODS OF TEACHING : (ONE BY ONE)**

Lecture, lecture cum discussion, clinical experience, panel discussion field role play, nursing care study, demonstration, Journal Presentation, patient centered teaching.

### **METHODS OF EVALUATION:**

Written tests, clinical evaluation, nursing care studies, field visits report on practical tests, Anecdotal records.

### **WEIGHTAGE OF MARKS**

<i>Theory</i>	<i>50 MARKS</i>	<i>Term test</i>	<i>30 marks</i>
		<i>Assignment</i>	<i>20marks</i>

### **PRACTICAL 50 MARKS**

<i>Practical Examination</i>	<i>25 marks</i>
<i>Clinical Evaluation</i>	<i>10 marks</i>
<i>Case study/case book</i>	<i>5 marks</i>

*Practical record*            5 marks  
*Observational /field visit* 5 marks

**REFERENCE :**

1. Brunner / Suddarth – Text Book of Medical Surgical Nursing, 6<sup>th</sup> Edition, J.B. Lippincott Co., Philadelphia, 1988.
2. Carleson, Judith H & Others 'Nursing Diagnossi" W. B. Saunders Company, Philadelphia, 1982.
3. Davidson and Macdeved, The Principles and Practice of' Medicine, English Language Book Society, London.
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9. Watson, Medical Surgical Nursing and re[atel Physiology, 3 Edition, Bacliern, Tunclail, 1988.

# ENGLISH

Placement : 1<sup>st</sup> Year

Time allotted : Theory -60 Hrs

## COURSE DESCRIPTION

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

## OBJECTIVES

At the end of the course, the student 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 – GRAMMER

**10 Hours**

- Remedial Study of Grammar
- Common grammatical errors,
- Review of grammar (Concord, tense, voice etc.),
- Role of grammar in communicative competence,
- Idiomatic use and usage,
- Standard English.

### UNIT II – VOCABULARY + READING

**15 Hours**

- Understand new passages and writing answers to the prescribed text based questions,
- Improving the reading speed
- Cultivating interest in reading
- Coining medical and general vocabular items
- Synonyms, antonyms, phrases

- Use of Dictionary & Thesaurus

### **UNIT III – WRITTEN COMMUNICATION**

**20 Hours**

- The study of various forms of composition,
- Note taking and Note making
- Diary, nurses notes, anecdotal records,
- Preparing teaching notes, posters
- Summarizing,
- Nurses reports on health problems,
- Letter writing
- Writing short answers to English text based questions,
- Essay writing,
- Style of writing

### **UNIT IV - ORAL COMMUNICATION:**

**15 Hours**

- Listening comprehension - Film, Cassette and Radio,
- Phonetics - the study of English sounds,
- Stress, rhythm & intonation,
- Difference between the. Indian & English sound systems,
- Oral reports, debates,
- Panel discussion, symposia,
- Speeches, skits, interviews,
- Fluency in speaking.

### **PRACTICUM**

- The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language
- Assignment on writing and conversation through participation in discussion debates seminars and symposia. The students will gain further skills in task oriented communication.

## **METHODS OF TEACHING**

1. Lecture
2. Pair and Group Work
3. Role plays
- 4 Oral presentations.
5. Decoding & production grammar exercise.
6. Comprehension exercise
7. Writing assignments.
8. Word puzzles & Quizzes.
9. Communicative games & fluency activities.

### **Methods of Evaluation:**

1. Individual Oral presentations.
2. Group Discussion.
3. Answering questions front the prescribed English text.
4. Summary / Essay / Letter writing.
5. Gram-mar Exercises.
6. Medical / General vocabulary exercises

*English 100 marks*

*Internal Examination : 100 marks*

## **REFERENCES**

1. Selva Rose. 1997, Career English for Nurses. Cheiu;ai: Oient Longrnan Ltd.
2. Oxford advanced Leaiiers Dictionary, 1996.
3. Quirk, Randolph and (Jreenbaum Sidney, 1987. A University Grammar of English, Hong Kong: Longman group (FE) Ltd.
4. Thomson A. J. and Maitüiet A. V. 1987, A 1icticl English Grammar, Delhi: Oxford University Press.
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6. O' Connor J. D, 1 986. Better English h' onuwiatiion. Cambridge: University Press.

7. By water F. V. A. 1982, Proficincy Course in Enish. London: 1-lodder and Stronglition.

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# **SOCIOLOGY**

**Placement : 2<sup>nd</sup> Year**

**Time allotted : Theory -90 Hours**

## **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**

**05 Hours**

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

### **UNIT II - INDIVIDUAL AND THE SOCIETY**

**08 Hours**

- Socialization
- Interdependence of the individual and society
- Personal disorganization
- Role of Nurse as a change agent in rendering Primary Health Care in contemporary Indian Society.

### **UNIT III - CULTURE**

**05 Hours**

- Nature of culture
- Evolution of culture

- Diversity and uniformity of culture

#### **UNIT IV - SOCIAL ORGANIZATION**

**15 Hours**

- 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**

**10 Hours**

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

#### **UNIT VI - SOCIAL CHANGE**

**10 Hours**

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

#### **UNIT VII - SOCIAL PROBLEMS**

**20 Hours**

- 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.

#### **UNIT VIII – COMMUNITY**

**17 Hours**

- The meaning of human ecology.
- The meaning of community,



- The Village community,
- Features of village community,
- Characteristics of Indian villages.,
- The Meaning of urban,
- Features of urban community city community of India.
- Health beliefs, practices and home remedies.

#### SUGGESTED PRACTICALS:-

1. Visit to social agencies such as hospital.
2. Urban and rural community.
3. Institutions - Orphanage, Beggar's home.
4. Approved school, School of Social Service.
5. Women's Club - Home for the Aged, etc.,

#### METHODS OF TEACHING

Lecture, discussion, seminars, Panel discussion.  
Observation visits, household survey.

#### METHODS OF EVALUATION :-

Tests - Written, reports, written assignments

#### **WEIGHTAGE OF MARKS 50**

<i>Term test</i>	<i>30 marks</i>
<i>Assignment</i>	<i>20marks</i>

#### Reference

1. Broom, L. & Selznick, Sociology text with ackptce retduig, New York, Harpes & Row, 1977.
2. Bottomoore, B. T. Sociology New York : Me. Craw Hill, 1979.
3. Horten, B. P. Hunt. L. C. Sociology, New York: Mcgraw H.11, 1979.
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7. Majumadar, D. N. and Madan, T. N. – An introduction to Sociology, anthropology, Asia Publishing house, Bombay, 1974.
8. Krober, A. I. Anthropology Today : The University Chicago Press, Chicago and London, 1970 (Eighth Impression).

## **COMMUNITY HEALTH NURSING**

**Placement** : 2<sup>nd</sup> Year

**Time allotted** : Theory -100 Hrs

**Practical -300 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 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 prevent 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**

**05 Hours**

- 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**

**10 Hours**

**Practical 50 Hours**

- 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 - ORGANIZATION AND ADMINISTRATION OF HEALTH SERVICES IN INDIA,**

**15 Hours**

**Practical 50 Hours**

- Organization and administration of health services in India
- National health policy
- Health Planning
- Health Care Delivery system in India
- Health Care services :

- Urban Health Services
- Rural Health Services
- System of medicines
- Centrally sponsored health schemes
- voluntary health organizations and international health agencies
- Health Care team concept
  - Role of health personnel in the community
  - Public health legislation.

#### **UNIT IV - HEALTH EDUCATION**

**05 Hours**

**Practical 50 Hours**

- 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 - NATIONAL HEALTH PROGRAMMES**

**20 Hours**

**Practical 50 Hours**

- Reproductive Child Health.
- Family Welfare
- Immunization Programme
- Communicable and non-communicable control programmes
- Water and Sanitation programme
- Nutritional Health Programmes
- School Health Services
- Occupational Health Services
- Geriatric Health
- Physically handicapped and Mental retardation
- Role of the community health nurse in National health programmes
- Training and Supervision of health care workers

## **UNIT VI - EPIDEMIOLOGY**

**15 Hours**

**Practical 50 Hours**

- Definition
- Use of epidemiology
- Objectives
- Approaches
- Methods
- Basic measurements in Epidemiology
- Principles
- Natural History of disease, levels of prevention
- Theories and Models of Epidemiology
- Dynamics of Disease transmission
- Causation of Disease
- Epidemiology of communicable and non-communicable diseases.
- Sources of community data and method of data collection
- Epidemiological surveillance and screening for disease
- Application of Epidemiology in Community Health

## UNIT VII – ENVIRONMENTAL HEALTH

**20 Hours**

**Practical 50 Hours**

- Environment
  - Definition
  - Environment health hazards
- Air
  - Composition
  - Indices of thermal comfort and discomfort
  - Air pollution
- Ventilation
  - Types
  - Standards
- Lighting
  - Requirement of good lighting
  - Measurement
  - Types
  - Effects of lighting on health
- Noise
  - Properties
  - Effects
  - Control
- Radiation
  - Sources
  - Types
  - Effects on health
  - Prevention
- Meteorological environment
  - Elements
  - Atmospheric pressure
  - Air temperature
  - Air velocity
  - Humidity

- Disposal of solid wastes
  - Source of refuse
  - Effects on health
  - Storage, collection and methods of disposal
  
- Disposal of human excreta
  - Effects of improper disposal
  - Methods of disposal
  - Modern sewage treatment
  
- Housing
  - Criteria for healthy housing
  - Standards
  - Effects of Poor Housing
  
- Water
  - Sources
  - Types of wells
  - Water pollution
  - Hardness of water and methods of removal
  - Purification of water
  - Water quality
  
- Sanitation of fairs, festivals, camps swimming pools
  
- Town planning
  
- Food sanitation
  - Food toxins
  - Food hygiene
  - Food adulteration
  - Sanitation of eating places, slaughter houses
  - Food poisoning, Food borne diseases
  - Legal control

## **UNIT VIII - BIO STATISTICS AND VITAL STATISTICS**

**10 Hours**

- Definition and scope, legislation



- Uses of vital statistics
- Source of vital statistics
- Report recording and compiling of vital statistics at the local state ,national and international level.
- 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 counseling 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

## **METHODS OF TEACHING :-**

Lecture, Discussion, Demonstration. Observation.

Visit to selected institutions, seminars, community aided teaching.

## **AUDIO-VISUAL AIDS**

Overhead Projector, Charts, CD, Samples, Floppy, etc.,

## **METHODS OF EVALUATION :-**

1. Assignment.
2. Project
3. Field report..
4. Written test.
5. Practicals,

### ***WEIGHTAGE OF MARKS***

<i>Theory</i>	<i>50 MARKS</i>	<i>Term test</i>	<i>30 marks</i>
		<i>Assignment</i>	<i>20marks</i>

### ***PRACTICAL 50 MARKS***

<i>Practical Examination</i>	<i>25 marks</i>
<i>Clinical Evaluation</i>	<i>10 marks</i>
<i>Case study/case book</i>	<i>5 marks</i>
<i>Practical record</i>	<i>5 marks</i>
<i>Observational /field visit</i>	<i>5 marks</i>

## **REFERENCES :-**

1. Allender, Judith A. Community and Home Health Nursing (Lippincott Review series). 1998 Lippincott, Philadelphia.
2. Anderson, Elizabeth and McFarlane, Judith: Community as Partner: Theory and Practice in Nursing, ed.1, 1996 Lippincot.. Philadelphia.
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# **MENTAL HEALTH NURSING**

Placement : 2<sup>nd</sup> Year

Time allotted : Theory -100hrs

**Practical -300hrs**

## **COURSE DESCRIPTION**

This course is 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 the 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**

**15 Hours**

- History of psychiatry
- Historical development of mental health nursing
- Philosophy principles of mental health and psychiatric nursing
- Concept of normal and abnormal behavior
- 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 – PSYCHOPATHOLOGY OF MENTAL DISORDERS**

**10 Hours**

**Practical 50 Hours**

Classification and assessment of mental disorders

- Terminologies used in Psychiatry
- Etiological factors and psychopathology of mental disorders
- History taking and assessment methods for mental disorders

## **UNIT III –THERAPEUTIC COMMUNICATION AND INTERPERSONAL RELATIONSHIP**

**10 Hours**

**Practical 50 Hours**

- Therapeutic communication
- Communication process
- Interview skills
- Nurse Patient Relationship
- Therapeutic attitude
- Process recording
- Therapeutic activities

## **UNIT IV - MANAGEMENT OF MENTAL DISORDERS**

**15 Hours**

**Practical 30 Hours**

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

- Neurotic Disorders : Anxiety Neurosis Depressive Neurosis Obsessive Compulsive Neurosis Neurosis and Hypochondriacally neurosis stress and somatoform disorders
- Psychotic disorders Schizophrenic form affective 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 : (ALCOHOL AND DRUGS)**

**10 Hours**

**Practical 20 Hours**

- 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 substation use disorders
  - Preventive and rehabilitative aspects in substance abuse

## **UNIT VI - MENTAL SUB-NORMALITY**

**10 Hours**

**Practical 30 Hours**

- Classification of mental sub-normality
- Etiological factors psychopathology psychometric diagnostic criteria and management of sub-normality.

## **UNIT VII – IMMEDIATE MANAGEMENT OF PSYCHIATRIC CONDITIONS**

**10 Hours**

**Practical 30 Hours**

- Psychiatric emergency
- Types, psychopathology, clinical features, assessment and diagnosis treatment and nursing management of patient with psychiatric emergencies
- Crisis Intervention therapy.

## **UNIT VIII - THERAPEUTIC MODALITIES**

**10Hours**

**Practical 40 Hours**

- Principles indication contraindications and role of nurse in various treatment methods;
- Physical Methods
  - Electro convulsive therapy
  - Pharmacotherapy



- Narcoanalysis
- Psychological Methods
  - Psychotherapy
  - Behaviour therapy
  - Group therapy
  - Family therapy
- Other miscellaneous therapies
- Therapeutic community and Milieu therapy

## **UNIT IX – COMMUNITY PSYCHIATRY**

**10 Hours**

**Practical 50 Hours**

- History of Community Psychiatry
- 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
- AfterCareandextendedservices

## **PRACTICUM**

The student will be provided opportunity to ;

- Observe record and report the behavior of their selected patient
- Record the process of interaction
- Assess the nursing needs of their selected patients plan 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 place
  - Child guidance clinic
  - School/special Schools (for mentally subnormal
  - Mental Hospital
  - Community mental health centres
  - De-addiction centre.

## **METHODS OF EVALUATION**

- Individual assignment
- Case study
- Written Test
- Practical and Oral
- Project

## **METHODS OF TEACHING:**

- Lecture and Discussion
- Nursing Rounds
- Clinical Presentation.

## **WEIGHTAGE OF MARKS**

<b>Theory</b>	<b>50 MARKS</b>	<b>Term test</b>	<b>30 marks</b>
		<b>Assignment</b>	<b>20marks</b>

## **PRACTICAL 50 MARKS**

<b>Practical Examination</b>	<b>25 marks</b>
<b>Clinical Evaluation</b>	<b>10 marks</b>
<b>Case study/case book</b>	<b>5 marks</b>
<b>Practical record</b>	<b>5 marks</b>
<b>Observational /field visit</b>	<b>5 marks</b>

## **REFERENCE :**

1. Ahuja Niraj, "Ashrot Text Book of Psychiatry", Jaypee Brothers. 5th edition, 2002.
2. Beck Rawlins'. "Mental Health Psychiatric Nursing", C. V. Mosby Company, 1' Edition, 1984.
3. Carter, F. M. Psychosocial Nursing "Therapy in hospital and community mental health". London, New York, Macmillan Publishers,
4. Fortinash, Holoday, Worret, "Psychiatric / Mental Health Nursing" Lipincott, 1944.
5. Loretta M. Brick Head, "Psychiatric / Mental Health Nursing", J.B. Lippincott Company, 1989.
6. Robert Nowell, "Mental Health Nursing" , Churc.1ll Livingstone, Edition, 2000.
7. Schultz, J. M, & Dark S. C. "Lippincott Manual of Psychiatric Nursing Care Plans, 6th Edition. 2002, Lippincott Publication.
8. Townsed. Mary "Mental Health Nursing" F. A; Davis Company, Philadelphia, 1994.

9. Taylor. M.Cecelia. “Essentials of Psychiatric Nursing”, Mosby 1994.

10. Verma Bener Carson, “Mental Health Nursing” , W. B. Saunders Company 2<sup>nd</sup> Edition, 2000.

# INTRODUCTION TO NURSING EDUCATION

**Placement :** 2<sup>nd</sup> Year

**Time allotted :** Theory -100 hrs  
Practical -90 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 student 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 counseling and guidance

## COURSE CONTENTS

### UNIT I - INTRODUCTION TO EDUCATION

**05 Hours**

- Meaning of education, aims function and principles.
- Philosophy of education
- Factors influencing development of philosophy of nursing education.

## **UNIT II - TEACHING LEARNING PROCESS**

**05 Hours**

- Nature and characteristics of learning
- Principles and maxims of teaching
- Formulating objectives
- Lesson planning

## **UNIT III – CURRICULUM**

**10 Hours**

**Practical 15 Hours**

- Concepts, Types of curriculum
- Formation of Philosophy
- Objectives
- Course planning
- Selection and organization of learning experience
- Correlation of theory and practice
- Current trends and curriculum planning

## **UNIT IV - METHODS OF TEACHING**

**25 Hours**

**Practical 30 Hours**

- Classroom 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 V – EDUCATIONAL MEDIA**

**20 Hours**

**Practical 15 Hours**

- 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 VI – EVALUATION**

**15 Hours**

**Practical 15 Hours**

- 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 VII – ADMINISTRATION AND MANAGEMENT OF SCHOOL NURSING**

**10 Hours**

- Planning and Organizing of School of Nursing
- 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 VIII - GUIDANCE AND COUNSELING**

**05 Hours**

**Practical 05 Hours**

- Definition
- Basic principles of guidance and counseling
- Organisation of guidance and counseling services
- Counseling process
- Managing disciplinary problems
- Management of crisis

## **UNIT VIII – IN-SERVICE EDUCATION**

**05 Hours**

**Practical 10 Hours**

- 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 in service education programme.
- Conduct at least one counseling session
- Prepare rotation plans.

## **METHODS OF TEACHING**

1. Lecture
2. Discussion
3. Projects

## **METHODS OF EVALUATION :-**

1. Written Tests.
2. Class Room Teaching.
3. Project Evaluation.

## ***WEIGHTAGE OF MARKS 50***

<i>Term test</i>	<i>30 marks</i>
<i>Practice Teaching</i>	<i>20marks</i>

## ***REFERENCES :***

1. Bhatia, K. K. & BHATIA, B. D. Principles and methods of teaching Doabra House. New Delhi, 1970.
2. Guinee, Kathleen K. Aims and methods of Nursing Education Macmillan Company, New York, 1966.
3. Heidgerken, Loretta E. Teaching and Learning in schools of Nursing, J. B. ppincott Company, Philadelphia, 1965.
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6. Mukerjee, Ed : Education in India To-day. Finna Kim Pvt. Ltd., Calcutta. 1980.
7. N. L. N. Faculty Curriculum Development curriculum Design by Nursing. Faculty, National League for Nursing, New York, 1986.
8. W.H.O. Guide for schools of Nursing in India World Health Organization. Regional Officer for South - East Asia, New Delhi, 1965.

# **INTRODUCTION TO NURSING SERVICE ADMINISTRATION**

**Placement :** 2<sup>nd</sup> Year

**Time allotted :** Theory -100hrs  
Practical –220hrs

## **COURSE DESCRIPTION**

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. Organize and manage a nursing unit effectively
6. Identify dynamics of organizational behaviour styles and functions of effective leadership

## **COURSE CONTENTS**

### **UNIT I – INTRODUCTION**

**10 Hours**

- Basic Concepts in management / administration
- 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 – FOUNDATION IN PLANNING AND ORGANIZING A NURSING UNIT**

**25 Hours**

**Practical 60 Hours**

- Nursing administration role in directing effective patient care service in the ward
- 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.
- Role of Nurse Administrator

### **UNIT III – STAFFING AND HUMAN RESOURCES**

**20 Hours**

**Practical 60 Hours**

- 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 AND STAFF DEVELOPMENT**

**15 Hours**

**Practical 50 Hours**

- 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**

**10 Hours**

**Practical 20 Hours**

- Principles of material management.
- Quality control.
- Inventory, care of equipment, safekeeping
- Role of nursing personnel in material management.

## **UNIT VI – BUDGETING**

**05 Hours**

**Practical 15 Hours**

- Financial Management
- Budgetting – Principles of budgeting, audit.

## **UNIT VII – COMMUNICATION AND HUMAN RELATION**

**15 Hours**

**Practical 15 Hours**

- 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 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.

## **METHODS OF TEACHING**

- Lecture discussion
- Demonstration seminars
- Panel discussion
- Symposium
- Role Play
- Observational visit

## **METHODS OF EVALUATION**

- Written test and group assignments
- Individual assignments
- Practical experiences

## ***WEIGHTAGE OF MARKS 50***

<i>Term te</i>	<i>30 marks</i>
<i>Assignment</i>	<i>10marks</i>
<i>Field /Observational visits</i>	<i>10marks</i>

## **REFERENCES**

1. Tomey Ann Marrier, Guide to Nursing Management and Leadership, 6th Edition, 2000, Mosby, St. Louis;.
2. B.T. Basavanthappa. Nursing Administration, 2002, Jaypee Brothers, Medical. Publishers P L Ltd., New Delhi.



3. Gupta Sakthi and Major Kant Sunil, Hospital and Health Care Administration, 1998, Jaypee Brothers, Bangalore.

4. D. Chandra Bose, Principles of Management and Administration, 2002, Prentice Hall of India Pvt. Ltd., New Delhi- 1.

4. Katherine W. Vestal, Nursing Management Concepts and issues, Second Edition, 1, 13. Lippincott Company, Philadelphia

# **INTRODUCTION TO NURSING RESEARCH AND STATISTICS**

**Placement :** 2<sup>nd</sup> Year

**Time allotted:** Theory -70hrs

**Practical -180hrs**

## **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 methods.

## **OBJECTIVES**

At the end of the course, the student 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 – HISTORICAL DEVELOPMENT OF NURSING RESEARCH**

**05 Hours**

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

#### **UNIT II – RESEARCH PROCESS AND ITS PRACTICAL APPLICATION**

**05 Hours**

**Practical 30 Hours**

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

#### **UNIT III - RESEARCH APPROACHES**

**10 Hours**

- Historical survey and experimental and non experimental

## **UNIT IV – DATA COLLECTION METHODS – SCALES AND TECHNIQUES OF PSYCHOLOGICAL MEASURES**

**10 Hours**

**Practical 90 Hours**

- Sampling Techniques and methods of data collection
- Sampling
- Instruments-questionnaire. Interview
- Observation schedule records measurements
- Reliability and validity of instruments

## **UNIT V – CONDUCTION OF STUDY**

**10 Hours**

**Practical 20 Hours**

- Analysis of Data :Tabulation
  - Classification and summarization
  - Presentation
  - Interpretation of data

## **UNIT VI – PREPARATION OF RESEARCH REPORT**

**05 Hours**

**Practical 40 Hours**

- Communication of research findings
- Writing Report:

- Organizing materials for writing
- Format of the report
- Use of computers

## **B. INTRODUCTION TO STATISTICS**

### **UNIT VII – STATISTICAL DATA AND ITS METHODS**

#### **Descriptive Statistics**

**15 Hours**

- Frequency Distribution –Types of measure –frequencies class interval graphic methods of describing frequency
- Measures of Central Tendency –Mode Median and Mean
- Measures of variability Range, Standard deviation
- Introduction to normal probability

#### **Inferential Statistics**

- Correlation test of significance, chi – square
- Computation by rank difference methods
- Uses of correlation co-efficient

### **UNIT VIII – VITAL & HEALTH STATISTICS**

**05 Hours**

- Biostatistics : Crude rates and standardized rates ratio and estimation of the trends

### **UNIT IX – COMPUTER APPLICATION IN RESEARCH**

**05 Hours**

- 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).

## **METHOD OF TEACHING**

- Lecture,
- Lectures cum discussion,
- Seminar,
- Assignments,
- Field visit,
- Demonstrations
- Survey,

## **METHOD OF EVALUATION :-**

- Written test,
- Assignment,
- Dissertation,
- Field visit report,
- Seminar.

## ***WEIGHTAGE OF MARKS 50***

<i>Term test</i>	<i>30marks</i>
<i>Assignment</i>	<i>20marks</i>

## ***Practical***

<i>Research Project</i>	<i>50 marks</i>
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## REFERENCES:

1. Polit, Denise F. & Hungler., Benadelte. P., Essentials of Research., 8<sup>th</sup> J. B. Lippincott company, Philadelphia, 2002.
2. Sundar Rao. P. S. S. Jesudian G. Richard J – An introduction to Biostatistics, 2<sup>nd</sup> Edition, 1989, Christian Medical College, Vellore.
3. Chirs Metzger Mcquiston. Adele A. Webb, Foundations of Nursing Theory, Sage Publication, London. 1995.
4. T. Basavanthappa – Nursing Research, Jaypee Brother Publication, New Delhi, 1<sup>st</sup> Edition, 1998.
5. R. Kothari. Research Methodology”, Wishwa Prakashan Publication, New Delhi. 2<sup>nd</sup> Edition, 1990.
6. Ruby L. Weslye, “Nursing Theories Models”, Spring House Publication Pennsylvania, 2<sup>nd</sup> Edition, 1995.