



**Dr. D. Y. PATIL VIDYAPEETH, PUNE**  
(Deemed to be University)

**Syllabus for**  
**P.B.B.Sc. Nursing**  
**2014 - 2015**  
(Revised upto April 2019)



**Dr. D.Y. PATIL VIDYAPEETH, PUNE**  
(Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade)  
(An ISO 9001 : 2015 Certified University)

**Dr. A. N. Suryakar**  
Registrar

Ref. No. : DPU/425/2019

Date : 06/05/2019


**NOTIFICATION**

Whereas in pursuance of the following decisions taken by the Board of Management, it is hereby notified to all concerned that the "Syllabus for P.B.B.Sc. Nursing- 2014-15" is revised upto April 2019 and hereby published.

- Addition of Computer Science in the syllabus of P.B. B.Sc. Nursing vide Resolution No. BM-19(i)-14 dated 25<sup>th</sup> April, 2014.
- Introduction bioethical aspects in various Chapters of all subjects vide Resolution No. BM-28(ii)-15 dated 29<sup>th</sup> December, 2015.
- Revision for internal assessment format for undergraduate and postgraduate courses vide Resolution No. BM-19(i)-18 dated 21<sup>st</sup> July, 2018.
- Interdisciplinary subjects for UG and PG Programme vide Resolution No. BM-11(i)-19 dated 12<sup>th</sup> April, 2019.
- Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) and it's mapping for all courses of UG and PG Programmes under Faculty of Nursing. Vide Resolution No. BM-11(iii)-19 dated 12<sup>th</sup> April, 2019.

The Syllabus of P.B.B.Sc. Nursing 2014-15 – Revised upto April 2019 will be useful to all the concerned. This will come into force with immediate effect.



  
(Dr. A. N. Suryakar)  
Registrar

**Copy to:**

1. PS to Chancellor for kind information of Hon'ble Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune.
2. PS to Vice Chancellor for kind information of Hon'ble Vice Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune.
3. The Principal, Dr. D. Y. Patil College of Nursing, Pimpri, Pune.
4. The Controller of Examinations, Dr. D. Y. Patil Vidyapeeth, Pune.
5. Director (IQAC), Dr. D. Y. Patil Vidyapeeth, Pune.
6. Web Master for uploading on Website.

## INDEX

<b>Sr. No</b>	<b>Content</b>	<b>Page No.</b>
01	Resolution For Implementation	1
02	Philosophy	2
03	Aim and Objective	3
04	Admission Procedure	4
07	Course Outline and Scheme of Examination	7
	<b>I Semester</b>	
08	Nursing Foundation	9
09	Nutrition and Dietetics	12
10	Biochemistry and Biophysics	15
11	Medical Surgical Nursing	20
12	English	27
	<b>II Semester</b>	
13	Maternal Nursing	29
14	Microbiology	34
15	Child Health Nursing	37
16	Psychology	59
17	Introduction to Computers	62
	<b>III Semester</b>	
18	Sociology	65
19	Community Health Nursing	67
20	Mental Health Nursing	72
	<b>IV Semester</b>	
21	Introduction to Nursing Education	77
22	Introduction to Nursing Service Administration	82
23	Introduction to Nursing Research and Statistics	86

A decorative rectangular border with a double-line design and ornate corner pieces.

**P.B.B.Sc. NURSING**

## **P.B.B.Sc. NURSING**

### **RESOLUTION FOR IMPLEMENTATION**

- 1) *Resolution No: BM 19 (i)-14 It was resolved that computer science to be added for P.B.B.Sc. Nursing for the Academic year 2014-15.  
Vide resolution No. BM 19 (i) – 14 dated 02/6/2014.*
- 2) *Resolution No: BM 19 (ii)-14 It was resolved that genetics in child health nursing (3Hrs.) to be added for B.Sc. Nursing for the Academic year 2014-2015.  
Vide resolution No. BM 19 (ii)-14 dated 02/6/2014.  
The course structure of revised nursing syllabus with computer Science, Genetics in child health nursing of the same is attached below.*

### **RESOLUTION FOR IMPLEMENTATION**

- 1) *Resolution No: BM03: It was resolved that Choice Based Credit System (CBCS) with Semester Pattern of B.Sc. Nursing, P.B.B.Sc. Nursing and M. Sc. Nursing for the Academic year 2015-16.  
Vide resolution No. BM 03 (i) – 15 dated 31/3/2015.  
The course structure of revised nursing syllabus with semester pattern as  
\* CBCS is not applicable as per INC guidelines.*

## **PHILOSOPHY**

Dr. D. Y. Patil Vidyapeeth believes in proper systematic teaching, training and research in Medical Sciences and uniformity in medical and allied health sciences. The philosophy of the P. B. B. Sc. (N) is incorporated by Dr. D. Y. Patil Vidyapeeth at par of Nursing Council.

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

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

Scope of nursing practice encompasses provision of promotive 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 and behavioral sciences.

Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the upgrading of critical thinking skills, competencies& standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

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

Undergraduate nursing education program at the post basic level prepares 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.

**Aim**

The aim of the undergraduate nursing program at the post basic level is to upgrade the diploma (GNM) nurses to assume responsibilities as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative and rehabilitative services, make independent decisions in nursing situations, protect the rights 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 manager in a clinical/public health setting.

**Objectives**

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

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

**ADMISSION CRITERIA**

The minimum educational requirement shall be the passing of General Nursing & Midwifery. Candidate shall be medically fit.

**ADMISSION PROCEDURE :**

Candidates should submit the prescribed application form duly completed along with requisite documents. Documents required at the time of admission :

- Certificate of passing the qualifying examination
- Mark list
- Requisite caste certificate issued by the competent authority, if admission is against reserved category.
- Gap certificate, if applicable
- Certificate of change of name, if applicable supported by documentary evidence like government Gazette
- Character certificate
- Transfer Certificate or School Leaving Certificate

**NOTE:**

It is the responsibility of the candidates to ascertain whether they possess the requisite qualifications for admission. Having being admitted provisionally does not mean acceptance of eligibility. Final eligibility for admission will be decided by D. Y Patil Vidyapeeth.

**LAST DATE FOR ADMISSION:**

All admissions will be closed 2 month after the starting of the programme. Admissions after last date will be done only with permission of the Vice Chancellor.

**Payment of fees:** Admissions will be confirmed only after payment of full fees.

**Procedure for admission of International Students: Undergraduate Level**

As an International student, you are eligible to apply as a Foreign Nationals (FN) if holding a foreign passport and have passed General Nursing and Midwifery. As an International student, you are eligible to apply as a Person of Indian Origin (PIO) if you have a PIO card and are a citizen of a country other than India and have passed General Nursing and Midwifery. As an International student, you are eligible to apply as a Non Resident Indian (NRI) if you have passed General Nursing and Midwifery outside India.

**NOTE:**

All students applied through this NRI category will have to appear for a Group discussion and Personal interview organized by the DPU. If you fail into any of the above mentioned categories and wish to apply to our institute, kindly contact The Principal for details on the day of admission procedure.

**ENTRANCE / SELECTION TEST**

Selection of the candidates shall be based on the merit of the entrance examination held by University or Competent Authority.

**COMMENCEMENT**

Academic year commences from 1<sup>st</sup> August and 1<sup>st</sup> January as per semester pattern.



**DURATION :**

- Duration of the course shall be two years (four semesters).
- Entire course need to be completed within 4 Years duration or else the student need to start the course again from first year.
- Course duration = 2 years (four semesters).
- Weeks available per Semester= 22-29 weeks/Semester
- Vacation = 4 – 6 weeks / year
- Gazetted holidays = As per Dr. D Y Patil University
- Examination= 4 weeks
- Hours available per semester= 600 hrs. (22 weeks) to 790 hrs. (29 weeks) including holidays and Examinations.

**INSTRUCTIONS:**

1. English examination will be conducted as college level examination and marks to be send to the University for inclusion in the marks sheet, but not to include in the grand total. (Minimum pass marks shall be 40% for English only.)
2. Introduction to computer examination to be conducted as College examination and marks to be sent to the University for inclusion in the marks sheet, but not to include in the grand total. (Minimum pass marks shall be 50 %.)
3. Nursing research and statistics theory examination and research project will be conducted as college level examination. Minimum passing marks are 50%. These marks are included in the mark sheet but excluded from grand total.
4. Minimum pass marks shall be 50% in each of the Theory and practical papers separately.
5. If candidate fails in either theory or practical he/she has to reappear for both theory and practical examination.
6. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing University examination in each semester.
7. A candidate must have 100% attendance in each of the practical areas before award of degree.
8. A candidate has to pass in theory and practical exam separately in each of the paper.

9. ATKT rules for each semester:

Semester	No. of Subjects for University Examination	ATKT Allowed
I	04	02
II	04	02
III	03	02
IV	02	-----

\*Note: Before appearing for IV Semester, all the previous backlogs should be cleared.

10. Maximum Number of attempts per semester depends on the duration of the course (As per INC).
11. The total grace marks awarded to a student who has failed shall be 1% of aggregate marks of that semester. Total grace marks can be divided in all the subjects appeared. Provided that these marks shall be awarded only if the student passes after awarding these marks.

Semester	No. of Subjects for University Examination	Aggregate Marks	Grace Marks
I	04	400	04
II	04	600	06
III	03	500	05
IV	02	200	02

Total grace marks (As per semester above) can be given one subject or can be divided in all the subjects appeared.

13. Candidate has to score 50% out of 100% to pass in examination which includes internal assessment (25) and university marks (75).
14. Exam pattern for Internal assessment shall be :Unit test I: 25 marks, Prefinal: 75 marks, which will be converted into 25 marks and send to the University.
15. The maximum period to complete the course successfully should not exceed four Years
16. All practical examinations must be held in the respective clinical areas.
17. Maximum number of candidates for practical examination should not exceed 20 per Day.
18. One internal and one external examiner should jointly conduct practical examination for each student.
19. An examiner should be a lecturer or above in a college of Nursing with M.Sc. (N) in concerned subject and minimum of 3 years of teaching experience.
20. At the end of course Gold medal will be awarded to the candidate on the basis of cumulative marks of all four semesters.

**COURSE OUTLINE**  
**P.B.B.SC NURSING (FIRST SEMESTER)**

Sr. No.	Subject	Theory Hrs.	Practical	Total
1.	Nursing Foundation	45	30	75
2.	Nutrition & Dietetics	30	15	45
3.	Biochemistry & Biophysics	60	-	60
4.	Medical-surgical Nursing	90	270	360
5.	English	60	-	60
	<b>Total</b>	<b>285</b>	<b>315</b>	<b>600</b>

**Scheme of Examination**

Sr. No.	Subject	Internal	University Exam	Total
1.	Nursing Foundation	15	35	50
2.	Nutrition & Dietetics	15	35	50
3.	Biochemistry & Biophysics	25	75	100
4.	Medical-surgical Nursing (Theory)	25	75	100
5.	Medical-Surgical Nursing(Practical)	50	50	100
6.	© English	100	-	100

© English examination will be conducted at college level examination. Minimum passing Marks are 40%. These marks are included in the mark sheet but excluded from grand total.

**P.B.B.SC NURSING (SECOND SEMESTER)**

Sr. No.	Subject	Theory Hrs.	Practical	Total
1.	Psychology	60	15	75
2.	Maternal Nursing	60	240	300
3.	Child Health Nursing	60	240	300
4.	Microbiology	60	30	90
5.	Introduction to computers	5	20	25
	<b>Total Hours</b>	<b>245</b>	<b>545</b>	<b>790</b>

**Scheme of Examination**

Sr. No.	Subject	Internal	University Exam	Total
1.	Psychology	25	75	100
2.	Maternal Nursing (Theory)	25	75	100
3.	Maternal Nursing (Practical)	50	50	100
4.	Child Health Nursing (Theory)	25	75	100
5.	Child Health Nursing (Practical)	50	50	100
6.	Microbiology	25	75	100
7.	©Introduction to Computers	100	---	100

©Introduction to Computers will be conducted at college level examination.  
Minimum passing marks are 50%. These marks are included in the mark sheet but  
Excluded from grand total.

**P.B.B.SC. NURSING (THIRD SEMESTER)**

Sr. No.	Subject	Theory Hrs.	Practical	Total
1.	Sociology	60	-	60
2.	Community Health Nursing	60	240	300
3.	Mental Health Nursing	60	240	300
	<b>Total Hours</b>	<b>180</b>	<b>480</b>	<b>660</b>

**Scheme of Examination**

Sr. No.	Subject	Internal	University Exam	Total
1.	Sociology	25	75	100
2.	Community Health Nursing (Theory)	25	75	100
3.	Community Health Nursing (Practical)	50	50	100
4.	Mental Health Nursing (Theory)	25	75	100
5.	Mental Health Nursing (Practical)	50	50	100

**P.B.B.SC. NURSING (FOURTH SEMESTER)**

Sr. No.	Subject	Theory Hrs.	Practical	Total
1	Introduction to Nursing Education	60	75	135
2	Introduction to Nursing Administration	60	180	240
3	Introduction to Nursing Research and Statistics	45	120	165
	<b>Total Hours</b>	<b>165</b>	<b>375</b>	<b>540</b>

**Scheme of Examination**

Sr. No.	Subject	Internal	University Exam	Total
1.	Introduction to Nursing Education	25	75	100
2.	Introduction to Nursing Administration	25	75	100
3.	©Introduction to Nursing Research & Statistics (Theory)	50	---	50
4.	© Research Project	50	---	50

©Introduction to Research and Statistics theory examination and research project will be Conducted as college level examination. Minimum passing marks are 50%. These marks are included in the mark sheet but excluded from grand total.



# **SEMESTER - I**

## **SEMESTER - I NURSING FOUNDATION**

**Placement : I Semester**

**Time Allotted : 45 Hrs.**

**Practical : 30 Hrs.**

### **COURSE DESCRIPTION:**

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

### **OBJECTIVES:**

At the end of the course, the students will

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

### **COURSE CONTENTS :**

#### **UNIT I- DEVELOPMENT OF NURSING AS A PROFESSION 6 Hrs.**

- Philosophy
- Objectives and responsibilities of a graduate nurse
- Trends influencing nursing practice
- Expanded role of the nurse
- Development of nursing education in India and trends in nursing education
- Professional organizations, career planning
- Code of ethics & professional conduct for nurses

#### **UNIT II- CONCEPTS OF HEALTH AND ILLNESS 12 Hrs.**

- Concepts of health and illness, effects on the person
- stress and adaptation
- Health care concepts and nursing care concept
- Developmental concepts, needs, roles and problems of the developmental Stages of individual – newborn, infant, toddler, pre-adolescent, adolescent adulthood, middle-age, old age

#### **UNIT III -THEORY OF NURSING PRACTICE 5 Hrs.**

- Meta paradigm of nursing –characterized by four central concepts i.e. nurse, person (client/patient). health and environment
- Nursing theory;
  - Florence Nightingale
  - Virginia Henderson

- Betty Neumen
- Dorothea Orem
- Martha Rogers etc

#### **UNIT IV -NURSING PROCESS 10 Hrs.**

- Nursing Process
- Nursing diagnosis – Definitions, concepts, statements, types, interpretation
- Planning: Techniques for planning care, types of care plans.
- Implementation: Different approaches to care, organizations and implementation of care, recording.
- Evaluation : Tools for evaluation, process of evaluation.

#### **UNIT V -QUALITY ASSURANCE 6 Hrs.**

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

#### **UNIT VI - APPROACHES TO HEALTH CARE 6 Hrs.**

- Primary health care concepts:
- Community oriented nursing
- Holistic nursing
- Primary nursing
- Family oriented nursing concepts:
- Problem oriented nursing
- Progressive patient care
- Team nursing

#### **PRACTICUM : Teaching Learning Activities – 30 Hrs.**

##### **Nursing process application**

Select one patient and write nursing care plan.

#### **EVALUATION**

***Internal Assessment: 15 Marks***

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

*Unit test : 25 Marks*

*Prefinal : 35 Marks*

*Seminar : 25 Marks*

*Care Plan : 25 Marks*

*Total: 110 Marks*

*(110Marks to be converted into 15 Marks)*

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

**REFERENCES:**

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



## **NUTRITION & DIETETICS**

**Placement: I Semester**

**Theory : 30 Hrs.**

**Practical: 15 Hrs.**

### **COURSE DESCRIPTION**

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

### **OBJECTIVES:**

**At the end of the course, the students will**

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

### **COURSE CONTENTS:**

#### **UNIT I- INTRODUCTION TO NUTRITION AND DIETETICS 8 Hrs.**

- Balanced diet, factors on which it depends.
- Factors to be considered in planning
- Guides available for planning
- Food Hygiene, preparation and preservation
- Review of nutrients – micro & macro

#### **UNIT II- INTRODUCTION TO DIET THERAPY 6 hrs.**

- Routine hospital diets
- Therapeutic diet under each unit i.e. cardiovascular diseases, gastrointestinal diseases, renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre and post-operative stage, deficiency diseases and malnutrition, overweight and underweight.

#### **UNIT III- INFANT AND CHILD NUTRITION 8 Hrs.**

- Feeding of normal infants: factors to be considered in planning, nutritional requirements
- Supplementary feeding of infants: Advantage and method of introduction.
- Weaning effects on mother and child.
- Psychology of infant and child feeding.
- Feeding the sick child. Diet in diseases of infancy and childhood.

- Deficiency – malnutrition, under nutrition, other nutrients deficiency.
- Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding.
- School lunch programme: advantages, need in India

### **UNIT III- COMMUNITY NUTRITION 8 Hrs.**

- Need for community nutrition programme
- Nutritional needs for special groups: infant, child, adolescent, Pregnant and lactating mother and old people.
- Substitutes for non-vegetarian foods.
- Selection of cheap and nutritious foods. Nutrition education needs and methods
- Methods of assessing nutritional status of individual / group / community.
- Current nutritional problems and national programmes (mid-day meal etc.)

### **PRACTICUM :**

#### **I Methods of cooking and cookery rules.**

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

Preparation of supplementary food for infants.

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

### **EVALUATION:**

***Internal Assessment: 15 Marks***

*(Out of 15 Marks to be sent to the University.)*

*Unit test: 25 Marks*

*Prefinal: 35 Marks*

*Therapeutic Diet: 25 marks*

*Journal: 25 marks*

**Total: 110 Marks**

(110 Marks to be converted into 15 Marks)

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

**REFERENCES:**

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

**BIOCHEMISTRY AND BIOPHYSICS**  
**SECTION – A**  
**BIOCHEMISTRY**

**Placement: I Semester**

**Theory : 30 Hrs.**

**Practical : 15 Hrs.**

**COURSE DESCRIPTION :**

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

**OBJECTIVES:**

At the end of the course, the students will

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

**COURSE CONTENTS**

**UNIT I – INTRODUCTION 2 hrs.**

- Introduction: importance of Biochemistry in Nursing
- Study of cell and its various components

**UNIT II- WATER AND ELECTROLYTES 2 hrs.**

- Distribution of water and its functions in human body (ECF & ICF)
- Water & Fluid balance
- Electrolyte Distribution and its functions in body
- Dehydration causes and consequences
- Electrolyte imbalance – causes, hypo and hypernatremia and kalemia

**UNIT III- ENZYMES 5 hrs.**

- Definition and Mechanism of action
- Factors affecting enzyme activities
- Enzymes in clinical diagnosis and its applications
- Precautions for handling specimens for enzymes estimation
- Digestion and Absorption of carbohydrates, proteins and lipids.
- Factors influencing the digestion and absorption
- Mal absorption syndrome

**UNIT IV- CARBOHYDRATES 05 hrs.**

- Elementary outline of Electron transport chain (ETC) and Biological Oxidation
- Elementary consideration of Mono, di and polysaccharides
- Fate of glucose in the body including - gluconeogenesis, glycogenesis, glycolysis, glycogenolysis. Storage of glucose.
- Outline- and Importance of TCA Cycle (Kreb's cycle)
- Regulation of blood glucose levels. Glucose Tolerance test (GTT) Hyperglycemia, Hypoglycemia.

**UNIT V- PROTEINS – AMINO ACIDS & HARMONES05 hrs.**

- Protein Chemistry
- Essential amino acids, properties and functions
- Important polypeptides
- Plasma Proteins and their functions
- Nucleic acids- DNA, RNA
- Biosynthesis of proteins in the cells and Role of nucleic acids in protein synthesis
- Nitrogenous constituents of Urine, blood their origin Urea cycle and Nitrogen balance. Uric Acid formation, gout

**UNIT VI –LIPIDS 06 hrs.**

- Biological Importance of important lipids and their functions
- Cholesterol and Lipoproteins
- Sources occurrence and distribution
- Blood levels and Metabolism
- Biosynthesis of fats and storage of fats (B-oxidation)
- Role of liver in fat metabolism Fatty liver, its causes and prevention
- Goal of lipid metabolism in Atherosclerosis and Heart diseases
- Ketone body formation and its utilization.
- Causes and detection of ketosis

**UNIT VII- INTER-RELATIONSHIP IN METABOLISM 05 hrs.**

- Carbohydrates, Lipids, a Protein, minerals metabolism
- Nutrition calorie value of food, BMR, SDA, Balance Diet

**REFERENCES**

- Anthikad, 'J': Biochemistry for nurses; New Delhi: Jaypee Brothers
- Dandekar S. P.: Medical biochemistry (based on MCI guidelines); New Delhi: Jaypee Brothers
- Das, Debajyoti : Biochemistry; New ed.; Calcutta, Academic publishers
- 4. Hodkinson M: Clinical biochemistry of the elderly; London: Churchill Livingstone, 1984

- Malhotra, V.: Biochemistry for students; New Delhi: Jaypee Brothers, 1985
- Nath, R.L.: Practice of biochemistry in clinical medicine, 1976
- U Satyanarayana : Biochemistry; Books and Allied Ltd.
- Eastham Duncan Robert: Biochemical values in clinical medicine; 8th ed.: John Cought and Sons Ltd., 1977

### **SECTION – B (BIOPHYSICS)**

**Placement: I Semester**

**Theory : 30 Hrs.**

**Practical: 15 Hrs.**

#### **COURSE DESCRIPTION:**

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

#### **COURSE CONTENTS:**

##### **UNIT I –INTRODUCTION 2 hrs.**

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

##### **UNIT II –MOTION 2 hrs.**

- Vector and scalar motion, speed, velocity and acceleration
- Newton's law of motion

##### **UNIT III- GRAVITY 3 hrs.**

- Gravity: Specific gravity, centre of gravity, principles of gravity.
- Effect of gravitational forces on human body.
- Application of principles of gravity in nursing

##### **UNIT IV -FORCE WORK & ENERGIES 3 hrs.**

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

##### **UNIT V –HEAT 3 hrs.**

- Heat : Nature, measurement, transfer of heat
- Effects of heat on matter
- Relative humidity, specific heat
- Temperature scales

- Regulation of body temperature
- Use of heat for sterilization
- Application of these principles in nursing

#### **UNIT VI- LIGHT 3 hrs.**

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

#### **UNIT VII- PRESSURES 3 hrs.**

- Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure
- Measurements of pressures in the body
- Arterial and venous blood pressures
- Ocular pressure
- Intracranial pressure
- applications of these principles in nursing

#### **UNIT VIII –SOUND 2 hrs.**

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

#### **UNIT IX – ELECTRICITY 5 hrs.**

- Electricity and Electromagnetism: Name of Electricity, Voltage, Current, Resistance and their Units.
- Flow of electricity in solids, electrolytes, gases and vacuum.
- Electricity and human body
- ECG, EEG, EMG, ECT
- Pace makers and defibrillation
- Magnetism and electricity
- M.R.I. Scanning, CAT scan

#### **UNIT X -NUCLEAR PHYSICS 2 hrs.**

- Atomic Energy : Structure of Atom, Isotopes and Isobars
- Radioactivity : Use of radioactive isotopes
- Radiation protection units and limits, instruments used for detection of
- Ionizing radiation. X-rays.

**UNIT XI- ELECTRONICS 2 hrs.**

- Principles of Electronics: Common electronic equipment used in patient

**PRACTICUM**

Experiments and Tests should be demonstrated wherever applicable.

**EVALUATION :****Internal Assessment: 25 Marks**

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

	<b>Section - A Biochemistry</b>	<b>Section – B Biophysics</b>	<b>Total Marks</b>
<b>Unit Test</b>	12	13	25
<b>Pre-Final</b>	37	38	75

Biochemistry Journal: **25 Marks**

(125 Marks to be converted into **25 Marks**)

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

Section A: Biochemistry: 37 Marks

Section B: Biophysics: 38 Marks

**Total Marks: 75 Marks**

**REFERENCES:**

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



## **MEDICAL – SURGICAL NURSING**

**Placement: I Semester**

**Allotted Theory: 90 hrs.**

**Practical: 270 hrs.**

### **COURSE DESCRIPTION :**

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

### **OBJECTIVES :**

At the end of the course, F.Y. B.Sc. Nursing students will be able to

1. Explain relevant Anatomy and Physiology of various systems of the body.
2. Explain etiology, pathophysiology and manifestations of various disorders.
3. Explain the actions, side-effects and nursing implication in administering drugs for various disorders.
4. Discuss the recent advancement in the investigations, treatment and care of patients with Medical Surgical conditions.
5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Provide planned and incidental health education on various aspects related to disorder and relevant care.
8. Appreciate the role of the nurse in the Medical Surgical health team.

### **COURSE CONTENTS :**

#### **UNIT I INTRODUCTION TO MEDICAL SURGICAL NURSING 4 hrs.**

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

**UNIT II**  
**NURSING MANAGEMENT OF PATIENTS WITH SPECIFIC PROBLEMS**  
**10hrs.**

- Fluid and electrolyte imbalance.
- Dyspnea, cough and respiratory obstruction.
- Fever and nursing care.
- Shock and nursing care.
- Unconsciousness and nursing care.
- Pain perception and nursing care.
- Acute and chronic illness and nursing care.
- Terminal illness and nursing care.
- Ageing and illness and nursing care.
- Pre and post-operative care.
- Nursing care of clients with incontinence.

**UNIT III NURSING MANAGEMENT OF PATIENT WITH**  
**NEUROLOGICAL AND NEURO-SURGICAL CONDITIONS. 8 hrs.**

Review of anatomy and physiology of the nervous system and assessment of clients with CNS disorders, pathophysiology, diagnostic procedures and management of:

- Cerebro-vascular accident and nursing care.
- Cranial, spinal and peripheral neuropathies and nursing care.
- Headache and intractable pain & nursing care.
- Epilepsy and nursing care.
- Nursing care of clients with infectious and inflammatory diseases and trauma of the nervous system.
- Nursing care of clients with common CNS disorders.
- Recent advance in diagnostic and treatment modalities and drugs used in CNS disorders.
- Brain, spinal tumors, congenital malformations, degenerative disorders.

#### **UNIT IV NURSING MANAGEMENT OF PATIENTS WITH CARDIO – VASCULAR PROBLEMS 8hrs.**

Review of relevant anatomy and physiology of cardio – vascular system and assessment of clients with cardio - vascular disorders, Pathophysiology, diagnostic procedures and management of -

- Ischemic heart disease.
- Cardiac arrhythmias.
- Congestive cardiac 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, aneurisms and peripheral - vascular disorders, recent advancement in cardiology.

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

Review of anatomy and physiology of respiratory system and assessment of clients with respiratory disorders, Pathophysiology, diagnostic procedures and management of upper and lower respiratory tract infection

- Bronchitis, bronchiectasis and nursing care.
- Asthma, emphysema, empyema, atelectasis, COPD and nursing care.
- Chest injuries, respiratory arrest and insufficiency
- Special respiratory therapies and drugs used in the management.

#### **UNIT VI: NURSING MANAGEMENT OF CLIENTS WITH GENITO - URINARY PROBLEMS. 5hrs.**

Review of anatomy and physiology of the genitor-urinary system and assessment of clients with genitor-urinary problems, pathophysiology and management of-

- Congenital disorders, urinary infections.
- Nephritis, renal calculi.
- Acute renal failure, chronic renal failure, end stage renal disease.
- Special procedures: dialysis, renal transplant.
- Benign prostatic hypertrophy.
- Drugs used in the management of these patients.

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

Review of anatomy and physiology of gastro-intestinal system and accessory organs and assessment of clients with gastro-intestinal tract disorders pathophysiology, diagnostic procedures and management of -

- Gastro-intestinal bleeding.
- Peptic ulcer.
- Acute abdomen.
- Infections, colitis, diarrhoea, dysentery and mal-absorption syndrome.
- Cholecystitis.
- Hepatitis, hepatic coma and cirrhosis of liver, portal hypertension.
- Pancreatitis.
- Tumours, hernias, fistulas, haemorrhoids.
- Drugs used in the management of these patients.

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

Review of anatomy and physiology and assessment of clients with endocrine disorders, pathophysiology, diagnostic procedures and management of-

- Thyroid disorders.
- Diabetes mellitus, diabetes insipidus.
- Adrenal tumours, pituitary disorders.
- Drugs used, diagnostic procedures and nursing management of patient with above problems.

#### **UNIT IX NURSING MANAGEMENT OF PATIENTS WITH MUSCULO-SKELETAL PROBLEMS 5 hrs.**

Review of anatomy, physiology and assessment of patients with musculo-skeletal disorders.

- Osteomalacia, osteoporosis, osteomyelitis, bursitis.
- Fractures, dislocation and trauma.
- Prolapsed disc.
- Prosthesis and rehabilitation.
- Transplant and replacement surgeries.

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

- Disorders of menstruation and infections of genital tract.
- Benign and malignant tumors of genital tract and RVF and VVF.
- Climacteric changes and associated problems.

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

- Types of neoplasms and related pathophysiology, diagnostic procedures,
- Modalities of treatment and nurses' role.
- Special therapies: chemotherapy and radiotherapy and nursing care.
- Preventive measures, other therapies.

**UNIT XII NURSING MANAGEMNT OF PATIENTS WITH BURNS & RECONSTRUCTIVE SURGEIES. 3 hrs.**

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

**UNIT XIII NURSING MANAGEMENT OF PATIENTS WITH COMMUNICABLE DISEASES, STDs AND HIV / AIDS. 5 hrs.**

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

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

- Assessment and nursing management of patients with eye disorders. (Eye injuries, cataract, inf., blindness)
- Assessment & nursing management of patients with ear disorders (deafness).
- Assessment and nursing management of patients with nose and throat disorders. (DNS, tonsillitis).
- Assessment nursing management of patients with skin disorders. (Fungal inf., herpes, psoriasis etc)

**UNIT XV: NURSING MANAGEMNT OF PATIENTS WITH BLOOD DISORDERS. 5 hrs.**

Review of anatomy and physiology of blood and blood products, pathophysiology, diagnostic procedures and management of blood disorders.

- Anaemia, leukaemia.
- Bleeding disorders, haemophilia, purpura etc.
- Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood disorders.
- Management and counseling of blood donors, phlebotomy procedure, and post-donation management.
- Blood bank functioning and hospital transfusion committee. Biosafety and waste management in relation to blood transfusion.

**UNIT XVI: NURSING IN EMERGENCIES. 3hrs.**

- Cardiac emergencies. (included in unit iv)
- Trauma.
- Poisoning.
- Crisis management: thyroid, hypertensive, & adrenal crisis included in unit viii & iv.

**PRACTILUM / CLINICAL EXPERIENCES: Total. Hrs. 270**

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

**EVALUATION:**

**Internal Assessment:**

Theory: 25 Marks

Practical: 50 Marks

**Details as follows:**

**Internal Assessment (Theory): 25 Marks**

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

Unit test 1: 25 marks

Prefinal: 75 Marks

Seminar: 100 Marks

Total: 200 Marks

(200 Marks to be converted into 25 Marks)

**Internal Assessment : Practical: 50 Marks**

**Practical Exam**

Unit test 1: 25 Marks

Prefinal : 50 Marks

1. Case Study (Two) ( 50 Marks Each): 100 Marks  
(One Medical & One Surgical Nursing)
2. Case Presentation (One) (50 Marks Each):50 Marks  
(Any specialty i.e., ENT/Ophthalmology/Skin/Burns.)
3. Nursing care plans (Two) (25 marks each) 50 Marks  
(Neurology/Orthopedic/Cardiology/Oncology)
4. Clinical Evaluation Comprehensive Nursing Care-300 Marks (100 marks each)  
i.e., medical Nursing, Surgical Nursing, Critical Care Units  
Total: 575 (575Marks from practical to be converted into 50 Marks)

**University Examination:**

Theory: 75 Marks, Practical: 50 Marks

**REFERENCES:**

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

## ENGLISH

**Placement: I Semester**

**Time Allotted: Theory – 60 Hrs.**

### **COURSE DESCRIPTION:**

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

### **OBJECTIVES:**

After the course the students will develop

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

### **COURSE CONTENTS:**

#### **UNIT I 15 hrs.**

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

#### **UNIT II 10 hrs.**

The ability to understand selected passage and express meaning in one's own words.

- Reading and comprehension of the prescribed books

#### **UNIT III 20 hrs.**

The study of various forms of composition

- Note taking
- Diary
- Nurses notes, anecdotal records
- Writing of summary
- Nurses reports on health problems

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

#### **UNIT IV 15 hrs.**

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

### **PRACTICUM:**

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



**Evaluation Scheme**

Internal Assessment

Unit test:25

Pre-final:50

**Total:75**

**(75 marks to be converted into 25 marks)**

External Assessment

**College examination : 75 marks**

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

**REFERENCES:**

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



## **SEMESTER - II**

## **SEMESTER - II MATERNAL NURSING**

**Placement: II Semester**

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

### **COURSE DESCRIPTION :**

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

### **OBJECTIVES:**

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

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

### **COURSE CONTENT**

#### **UNIT I-INTRODUCTION AND HISTORICAL REVIEW 5 hrs.**

- Early history of midwifery and evolution of obstetrics Maternity care and practices in various culture across the world.Expanded role of the nurse in maternity and gynaecology.
- Safe motherhood initiative Maternal mortality, morbidity and perinatal mortality. Legislation related to maternal benefits, MTP acts, incentives and Family planning. Family welfare programme.

#### **UNIT II - ANATOMY AND PHYSIOLOGY OF FEMALE REPRODUCTIVE SYSTEM 6 hrs.**

- Review of anatomy and physiology of female reproductive system.
- Female pelvis and foetal skull.
- Menstrual cycle
- Human reproduction, gametogenesis, fertilization, embryo.
- Placenta, foetalmembrance, liquor amnii, umbilical
- The foetus, foetal growth, foetal physiology, foetal circulation.

**UNIT III- NORMAL PREGNANCY 8hrs.**

- Physiological changes during pregnancy
- Diagnosis of pregnancy and antenatal care
- Antenatal assessment of foetal wellbeing.
- Physiology of normal labour
- Mechanism of normal labour
- Management of I,II and III stages of labour.
- Physiology of puerperium.
- Physiology of lactation and breast feeding
- Management of normal puerperium

**UNIT IV – NEWBORN BABY 6hrs.**

- Resuscitation and immediate care of newborn including SGA & LGA
- Normal characteristics and essential care of newborn
- Asphyxia Neonatorum, respiratory distress
- Jaundice in newborn
- Birth injuries, congenital anomalies, infection in newborn & vomiting in newborn.
- Still birth – incidence, causes and prevention
- Care of low birth weight babies in labour room and nursery/ NICU.

**UNIT V - MEDICAL DISORDERS IN PREGNANCY 5hrs.**

- Hypertensive disorders-Pregnancy induced hypertension, Eclampsia.
- Anaemia in pregnancy
- Diabetes mellitus in pregnancy
- Heart diseases
- Renal disorders in pregnancy
- Jaundice in pregnancy
- Pulmonary TB
- Pregnancy with STD,HIV /AIDS.

**UNIT VI - HIGH RISK PREGNANCY 10 hrs.**

- Abortion
- Hydatiformmoma
- Ectopic pregnancy
- Medical termination of pregnancy
- Antepartum haemorrhage – Placenta previa, Abruption placenta
- Vomiting in pregnancy
- Pregnancy in Rh negative women
- Multiple pregnancy, hydramnios
- Preterm labour
- Premature rupture of membrane
- IUGR, postdatism
- Pregnancy with previous caesarean section
- Fibroid with pregnancy, Ovarian tumour with pregnancy

**UNIT VII- HIGH RISK LABOUR 3 hrs.**

- Abnormal presentation –Unstable lie, Occipitoposterior, face and brow presentation
- Breech presentation, compound presentation
- Abnormal uterine action in labour and active management of labour
- Contracted pelvis and CPD
- Obstructed labour, rupture of uterus, injuries of maternal birth canal, cord prolapsed.

**UNIT VIII - ABNORMALITIES OF PUERPERIUM 4 hrs.**

- Puerperial pyrexia and sepsis
- Post partumhaemorrhage
- Breast complications – Breast engorgement, breast abscess, acute mastitis
- Psychiatric disorders in puerperium

**UNIT IX - OBSTETRICAL EMERGENCIES & OPERATIVE OBSTETRICS 3hrs.**

- Uterine rupture, cervical tear
- D and E, S and E
- Use of instruments – Episiotomy Forcep, Vacuum
- Caesarean section

**UNIT X - PHARMACOTHERAPEUTICS 2 hrs.**

- Oxytocics, Prostaglandins – use in obstetrics
- Anaesthesia and analgesics used in obstetrics

**UNIT XI-SPECIAL INVESTIGATIONS IN OBSTETRICS 2hrs.**

- USG, NST, CTG
- Radiography

**UNIT XII – CURRENT TRENDS IN REPRODUCTIVE HEALTH (RCH) 4hrs.**

- Infertility, genetic counseling
- Unwanted pregnancy
- Unwed mother
- Advances in obstetrics and maternity care.

**UNIT XIII - GYNAECOLOGICAL NURSING 4hrs.**

- Common Gynecological Problems
- Cervical erosions, Carcinoma
- Fibroids, Uterine and Cervical Prolaps
- Uterine Inversion etc

**PRACTICUM: Practice following Procedures**

- Antenatal, Postnatal and per vaginal exam.
- Conduct normal delivery  
( For male candidates minimum conduct of 5 deliveries)
- Motivation of Planned Parenthood, advice on family planning methods.
- Assist in various diagnostic and therapeutic procedure including IUD insertion and removal.
- Follow Nursing process in providing care to 3-6 patients.

**PRACTICUM / CLINICAL EXPERIENCE : TOTAL HOURS : 240**

- Antenatal OPD or ANC Ward : hours:50
- Labour Room : hours: 60
- Post-natal ward / OPD : hours: 50
- Gynaecology ward : hours: 30
- OPD, Family Planning clinics & visits: hours:30
- Operation Theatre : hours:20

**EVALUATION:****Internal Assessment:**

Theory : 25 Marks

Practical : 50 Marks

**Details as follows:**

Internal Assessment (Theory): 25 Marks

Unit test: 25 marks

Prefinal: 75 Marks

Seminar: 100

**Total: 200 Marks**

(200 Marks to be converted into 25 Marks)

**Practical: Details as follows:**

1. Unit test 25 marks

2. Prefinal Exam: 50 Marks

3. Clinical Evaluation & Clinical Assignment:

- Case study: Two (50marks each): 100 Marks
- Case presentation: One : 50 Marks
- Clinical evaluation (100 marks each): 300 Marks
- ANC/ LABOUR ROOM/ PNC
- Group Health teaching ( One) : 025 Marks
- Nursing care Plan (Gynac: One) : 025 Marks

**Total Marks: 575 Marks**

(575 Marks from Practical to be converted into 50 Marks)

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

External Assessment (Practical): 50 Marks

## REFERENCES

1. Myles Textbook of Midwives, Eds; Diane M. Fraser and Margaret A. Cooper 14<sup>th</sup> Ed, Churchill Living stone.
2. D. C. Dutta Textbook of Obstetrics including Perinatology and Contraception 6<sup>th</sup> Edition , 2004 New Central Book Agency.
3. Hawkins and Bourne, Shaws Textbook of Gynaecology, Eds; V.G. Padubidri and Shirish N Daftary, 13<sup>th</sup>ed, Reed Elseiver India.
4. S. S. Ratnam, K Bhasker Rao and S Arulkumaran, Obstetrics and Gynaecology for Postgraduates, Vol 1 and Vol 2, Orient Longman Ltd 1994
5. Lower milk, perry, Bobak.” Maternity and women’s Health Care” 6<sup>th</sup> ed.; 1997. C.V.Mosby.
6. C. S. Dawn: Textbook for obstretics and neonatology 12<sup>th</sup> edition.

## **MICROBIOLOGY**

**Placement : II Semester**

**Time Allotted Theory : 60 Hrs.**

**Practical: 30 Hrs.**

### **COURSE DESCRIPTION**

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

### **OBJECTIVES:**

After the course the students will develop

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

### **COURSE CONTENTS:**

#### **UNIT I -INTRODUCTION 3 hrs.**

- General Microbiology: History, (Fracostoriues of Verona to the Latest Nobel Laureates short note on Pasteur and Koch) and Introduction
- Microscope  
(Types – dissecting to Electron measuring scale up to nanometer )

#### **UNIT II- GENERAL MICROBIOLOGY 3 hrs.**

- Morphology and Physiology  
(Size, Shape, structure., spore, flagella, capsule)
- Staining (demonstration) Gram's + Z N's + Motility

#### **UNIT III - BACTERIAL GROWTH REQUIREMENT 5 hrs.**

- Growth requirement of Bacteria + Bacteria growth curve
- Cultural media different
- Collection processing of sample and bacteria

#### **UNIT IV - STERILIZATION & DISINFECTION 5 hrs.**

- Sterilization + Disinfections
- Sterilization demo of instruments, Different disinfectants dilute
- Hospital infection control Biosafety + Fumigation and role of nurse
- Bacterial genetics (emphasis to drug resistance) Host parasite relationship



**UNIT V - SYSTEMIC BACTERIOLOGY 10 hrs.**

- Morpho, growth requirements, diseases caused vaccine epideo)
- Pyogenic cocci causing diseases Staphylococci
- Streptococci and Pneumococci and Neisseria
- Salmonella + Shigella
- E coli diarrhea + Cholera + Pseudomonas
- C. diptheria + Chlamydia
- Anaerobes intro. + C. welchii
- C. tetani + nonsporing anaerobes mention diseases
- Tuberculosis
- Leprosy + Aty
- Spirocheate + Leptospira
- Chlamydia
- Demo different morphology of bacteria G + C, G + B, GNC, GNB
- Demo of organism Spore, Capsule, fungi, AFB

**UNIT VI - SYSTEMIC MYCOLOGY 5 hrs.**

- Fungi intro., Dermatophytes
- Mycetophytes
- Mycetoma, Rhino, Crypto
- Candida and Lab. Diagnosis of fungal infections

**UNIT VII - IMMUNOLOGY 5 hrs.**

- Immunity
- Antigen
- Antibody
- Ag X Abs reaction serological
- Immune Response
- Hypersensitivity

**UNIT VIII- SYSTEMIC PARASITOLOGY 10 hrs.**

- Intro classification and some terms
- Amoeba + Giardia
- Trichomonas + Leishmania
- Malaria + Toxoplasma
- Cestodes (Taenia sodium and saginata E. granuloses)
- Intestinal Nematodes
- Tissue Nematodes
- Vectors
- Diff. Parasites and vectors stool preparation demo

**UNIT IX - SYSTEMATIC VIROLOGY 8 hrs.**

- Gen. Prop. Cultivation classification
- Herpes virus
- Picorna virus
- Measles, Mumps, Chicken pox

- Ortho and Arbo (Dengue)
- Rhabdo virus
- Hepatitis virus
- HIV and AIDS

#### **UNIT X - CLINICAL MICROBIOLOGY 6 hrs.**

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

#### **PRACTICUM:**

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

#### **EVALUATION:**

##### **Internal Assessment:**

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

Unit test: 25 marks

Prefinal: 75 Marks

Journal: 25 Marks

##### **Total: 125 Marks**

(125 Marks to be converted into 25 Marks)

##### **External Assessment (Theory): 75 Marks**

(University Examination)

#### **REFERENCES:**

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

## CHILD HEALTH NURSING

**Placement: II Semester**

**Theory : 60hrs.**

**Practical : 240hrs.**

### **COURSE DESCRIPTION:**

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

### **OBJECTIVES:**

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

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

### **COURSE CONTENT**

#### **UNIT I - INTRODUCTION TO CHILD HEALTH NURSING 8 hrs.**

- Modern concept of childcare
- Internationally accepted rights of the child.
- Changing trends in hospital care, preventive, promotive and curative aspects of child health Child morbidity and mortality rates
- National policy and legislation's in relation to child health and welfare
- National programmes related to child health and welfare.
- Differences between adult and child
- Hospital environment for a sick child and role of a paediatric nurse in caring for the hospitalized child
- Principles of pre and post-operative care of infants and children
- Paediatric nursing procedures Perpn of child for diagnostic tests, collection of specimens, calculation and administration of oral and parenteral medication, feeding, adm of oxygen, nebulization, collection of specimens, exchange transfusion, restraints

#### **UNIT II-THE HEALTHY CHILD 12hrs.**

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

#### **UNIT III- CARE OF THE NEWBORN 4 hrs.**

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

#### **UNIT IV – NURSING MANAGEMENT OF COMMON CHILDHOOD ILLNESS. 32 hrs.**

##### **(a) Nutritional deficiency disorders.**

- Protein energy malnutrition
- Vitamin deficiency disorders
- ( Rickets, scurvy, Vit A deficiency disorders)

##### **(b) Respiratory diseases & disorders.**

- Acute bronchitis & Bronchiolitis
- Pneumonia
- Branchial Asthama

##### **(c) Disorders of the gastro-intestinal system.**

- Acute gastroenteritis
- Tracheo esophageal fistula
- Cleft lip and palate
- Hypertrophic Pyloric Stenosis
- Hirschsprung's Pyloric Stenosis
- Anorectal anomalies

**(d) Cardiovascular System**

- Rheumatic fever
- Congenital heart diseases
- Congestive cardiac failure

**(e) Disorders of Genito urinary System**

- Acute glomerulonephritis
- Nephrotic Syndrome
- Wilms' tumour & Congenital disorders

**(f) Neurological Disorders**

- Convulsions in children and Epilepsy
- Meningitis and Encephalitis
- Hydrocephalus, Meningocele and meningocele

**(g) Haematological Disorders**

- Anaemia and Thalassemia
- Idiopathic thrombocytic Purpura and Hemophilia
- Leukaemia

**(h) Endocrine Disorders**

- Juvenile Diabetes Mellitus

**(i) Orthopaedic Disorders**

- CTEV (Club foot), Congenital hip dislocation
- Fractures

**(j) Disorders of Skin, Eye & ENT**

- Eczema, urticaria, scabies, pediculosis, worm infestations
- Eye & ENT Tonsillitis, Deafness, Otorrhoea, Otitis Media, Congenital Cataract, hypertelorism

**(k) Communicable Diseases in Children**

- Measles/rubella, Chicken pox
- Diphtheria, whooping cough
- Tetanus, Poliomyelitis
- AIDS
- Tuberculosis

**(m) Paediatric Emergencies**

- Accidents, Poisoning, Stings and Bites
- Foreign bodies, Haemorrhage and Drowning Burns

**UNIT V : MANAGEMENT OF BEHAVIOURAL PROBLEMS IN CHILDREN  
CHILDHOOD ILLNESS 04 hrs.**

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

**The students will:-**

1. Be posted in paediatric medical and surgical ward, OPD in hospital, health centre and neonatal unit.
2. Visit a centre for handicapped children and write observation report.
3. Write an observation study of normal children of various age groups in home/ nursery school / creche.
4. Follow nursing process in providing care to 3-6 children.
5. Write at least two nursing care studies and do a presentation.
6. Give two planned health teachings, one in hospital and one in OPD/health center.
7. Practice the following nursing procedures :
  - 7.1. Taking pediatric history
  - 7.2. Physical assessment of children
  - 7.3. Baby bath
  - 7.4. Feeding- spoon and vati, nezogastric feeding.
  - 7.5. Restraining
  - 7.6. Calculation of dosage of drugs and administration of medications and injections & Intra Venous Infusion
  - 7.7. Collection of specimens
  - 7.8. Enema. Bowel wash. Colostomy irrigation
  - 7.9. Steam and Oxygen inhalation
  - 7.10. Preparation to assist with diagnostic tests and operations
  - 7.11. Examination/ Assessment of a newborn
  - 7.12. Neonatal resuscitation
  - 7.13. Care of a baby in incubator and on ventilator
  - 7.14. Photo therapy
  - 7.15. Assist in exchange transfusion and other therapeutic procedures

**CLINICAL EXPERIENCE : Total Hours : 240**

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

**EVALUATION:****Internal Assessment:**

Theory : 25 Marks

Practical : 50 Marks

**Internal Assessment (Theory): 25 Marks**

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

Unit test 25 marks

Prefinal : 75 Marks

Seminar : 100

Total: 200 Marks (200 Marks to be converted into 25 Marks)

**Internal assessment (Practicum): 50 Marks****PRACTICAL EXAM:**

- 1) Unit test 25 Marks
- 2) Prefinal 50 Marks
- 3) Clinical Evaluation and Clinical Assignment:
  - i) *Case study (two): 100 Marks*  
*(One Paediatric Medical and One paediatric surgical- 50 Marks each)*
  - ii) *Case presentation (one) 50 Marks*
  - iii) *Clinical evaluation of compressive nursing care- 300 Marks*  
*(One paediatric medical, One paediatric surgical and One NICU-100 Marks each)*
  - iv) *Health teaching 50 marks*
  - v) *Assessment of growth and development 100 Marks*  
*(Preterm baby, Infant, Toddler, Preschlolar, and scholar (Marks 20 each).*

**Total: 675 Marks**

*(675 Marks from Practicum to be converted into 50 Marks)*

**External Assessment:**

Theory: 75 Marks (**University Exam**)

Practical: 50 Marks

**REFERENCES:**

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



### CHILD HEALTH NURSING (PRACTICAL)

Placement: VI- Semester.

Time: 270 hrs. (10 weeks)

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Pediatric medicine ward	3	<ul style="list-style-type: none"> <li>• Provide nursing care to children with various medical disorders</li> <li>• Counsel and educate parents</li> </ul>	<ul style="list-style-type: none"> <li>• Taking pediatric history</li> <li>• Physical examination and assessment of children</li> <li>• Administer oral IM/ IV medicine and fluids</li> <li>• Calculate fluid requirements</li> <li>• Prepare different strengths of IV fluids</li> <li>• Apply restraints</li> <li>• Administer oxygen inhalation by different methods</li> <li>• Give baby bath</li> <li>• Feed children by katori spoon etc</li> <li>• Collect specimens for common investigations</li> </ul>	<ul style="list-style-type: none"> <li>• Give care to three assigned pediatric patients</li> <li>• Nursing care plan-1</li> <li>• Case study /presentation-1</li> <li>• Health Talk-1</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale.</li> <li>• Assess each skill with checklist OSCE/OSPE</li> <li>• Evaluation of case study /case presentation and health education session</li> <li>• Completion of activity record</li> </ul>
Pediatric surgery ward	3	<ul style="list-style-type: none"> <li>• Recognize different pediatric conditions / malformations</li> <li>• Provide</li> </ul>	<ul style="list-style-type: none"> <li>• Give baby bath</li> <li>• Feed children by katori spoon etc</li> <li>• Collect specimens for common investigations</li> </ul>	<ul style="list-style-type: none"> <li>• Give care to three assigned pediatric patients</li> <li>• Nursing care plan-1</li> <li>• Case study /presentation-1</li> </ul>	

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Pediatric OPD / immunization room	1	<ul style="list-style-type: none"> <li>pre and post operative care to children with common pediatric surgical condition s/ malformation</li> <li>Counsel and educate Parents</li> </ul>	<ul style="list-style-type: none"> <li>ons</li> <li>Assist with common diagnostic procedure</li> <li>Teach mothers /parents</li> <li>➤ Malnutrition</li> <li>➤ Oral rehydration therapy</li> <li>➤ Feeding and weaning</li> <li>➤ Immunization schedule</li> <li>➤ Play therapy</li> <li>➤ Specific disease conditions</li> </ul>	Developmental study-1	<ul style="list-style-type: none"> <li>Clinical performance with rating scales.</li> <li>Assess clinical performance with rating scale.</li> <li>Assess each skill with checklist OSCE/OSPE</li> <li>Evaluation of case study /case presentation and health education session</li> <li>Completion of activity record</li> </ul>
Pediatric medicine and surgery ICU	3	<ul style="list-style-type: none"> <li>Perform assessment of children: Health, developmental and anthropometric</li> <li>Perform immunization</li> <li>Give health education/ nutritional education</li> <li>Provide nursing care to critically ill</li> </ul>	<ul style="list-style-type: none"> <li>Calculate, prepare and administer IV fluids</li> <li>Do bowel wash</li> <li>Care for ostomies</li> <li>➤ Colostomy irrigation</li> <li>➤ Ureterostomy</li> <li>➤ Gastrostomy</li> <li>➤ Enterostomy</li> <li>Urinary catheterization and</li> </ul>	<ul style="list-style-type: none"> <li>Nursing care plan 1</li> <li>Observation report 1</li> </ul>	<ul style="list-style-type: none"> <li>Assess clinical performance with rating scale.</li> <li>Completion of activity record</li> </ul>

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
		children	drainage <ul style="list-style-type: none"> <li>• Feeding</li> <li>➤ Nasogastric</li> <li>➤ Gastrostomy</li> <li>➤ Jejunostomy</li> <li>• Care of surgical wounds</li> <li>• Dressing</li> <li>• Suture removal</li> <li>• Assessment of children</li> <li>➤ Health assessment</li> <li>➤ Developmental assessment</li> <li>➤ Anthropometric assessment</li> <li>• Immunization</li> <li>• Health / nutritional education</li> <li>• Care of a baby in incubator /warmer</li> <li>• Care of child on ventilator</li> <li>• Endotracheal suction</li> <li>• Chest physiother</li> </ul>		<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale.</li> <li>• Completion of activity record</li> <li>• Evaluation of observation report</li> </ul>

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
			apy • Administer fluids with infusion pump • Total parenteral nutrition • Phototherapy • Monitoring of babies • Cardiopulmonary resuscitation		

#### FORMAT FOR CASE PRESENTATIONS

**Patients biodata:** name, age, sex, religion, occupation of patient, source of health care, date of admission, provisional diagnosis, date of surgery if any Presenting complaints : describe the complaints with which the patient has come to hospital

#### History of illness :

History of present illness - onset, symptoms, duration, precipitating / alleviating factors

History of past illness – illnesses, surgeries, allergies, immunizations, medications  
 Family history– family tree, history of illness in family members, risk factors, congenital problems, psychological problems.

#### Childs personal data:

Obstetric history of – prenatal and natal history of mother, growth and development (compare with normal), immunization status, dietary pattern, including weaning, play habits, toilet training, sleep pattern schooling.

**Economic status of the family:** monthly income and expenditure on health, food and educational material assets (own pucca house car, two wheeler, phone tv etc.)

**Psychological status:** ethnic background (geographical information, cultural information) support system available.

**Physical examination with date and time Investigations**

Date	Investigation done	Normal value	Patient value	Inference

**Treatment**

Sr. No	Drug (pharmacological name)	Dose	Frequency /Time	Action	Side effects & drug interaction	Nursing Responsibility

**Description of disease :**

Definition, related anatomy and physiology, etiology, risk factors, clinical features, management and nursing care. Clinical features of the disease condition

Clinical features present in Book	Description of Clinical Features of Patient	Pathophysiology

**Nursing Process:**

Patients Name:

Date:

ward:

Date	Assessment	Nursing Diagnosis	Objective	plan of Care	Implementation	Rationale	Evaluation

**Discharge planning:**

It should include health education and discharge planning given to patients

**Evaluation of care**

Overall evaluation , problem faced while providing care, prognosis of the patient and conclusion.

**EVALUATION FORMAT FOR CASE PRESENTATION**

Name:

Sr. no	Particular	Marks	Marks obtained
1.	Assessment / Introduction	05	
2.	Knowledge and understanding of disease	10	
3.	Nursing care plan	15	
4.	Presentation skill	10	
5.	A. V. Aid	05	
6.	Overall – Time	01	
7.	Summary & conclusion	02	
8.	Bibliography	02	
	<b>Total</b>	<b>50</b>	

### FORMAT FOR CASE STUDY

Format is similar to case presentation but it should be in detail  
The nursing care given to patient should be atleast for 5 continuous days

### EVALUATION FORMAT FOR CASE STUDY

Sr. No.	Particular	Marks	Marks obtained
1.	Assessment / Introduction	05	
2.	Knowledge and understanding of disease	15	
3.	Nursing care plan	20	
4.	Discharge plan	05	
5.	Summary & Evaluation	02	
6.	Bibliography	03	
	<b>Total</b>	<b>50</b>	

### NURSING CARE PLAN

- 1. Patients biodata:** name, age, sex, religion, occupation of patient, source of health care, date of admission, provisional diagnosis, date of surgery if any
- 2. Presenting complaints:** describe the complaints with which the patient has come to hospital
- 3. History of illness :**  
History of present illness- onset, symptoms, duration, precipitating / alleviating factors  
  
History of past illness – illnesses, surgeries, allergies, immunizations, medications  
  
Family history – family tree, history of illness in family members, risk factors, congenital problems, psychological problems.
- 4. Childs personal data:**  
Obstetric history of – prenatal and natal history of mother, growth & development (compare with normal), immunization status, dietary pattern, including weaning, play habits, toilet training, sleep pattern schooling.
- 5. Economic status of the family:** Monthly income and expenditure on health, food and educational material assets (own pucca house car, two wheeler, phone tvetc.)
- 6. Psychological status:** Ethnic background (Geographical information, cultural information) support system available.
- 7. Personal habits:** Consumption of alcohol, smoking ,tobacco chewing, sleep, exercise work elimination, nutrition.
- 8. Physical examination with date and time**

**9. Investigations**

Date	Investigation done	Normal value	Patient value	Inference

**10. Treatment**

Sr. No	Drug (pharmacological name)	Dose	Frequency/time	Action	Side effects & drug interaction	Nursing responsibility

**11. Nursing process:**

Patients Name:

Date:

Ward:

Date	Assessment	Nursing Diagnosis	Objective	Plan of Care	Implementation	Rationale	Evaluation

**Discharge planning:**

It should include health education & discharge planning given to patients

**12. Evaluation of care**

Overall evaluation, problem faced while providing care, prognosis of the patient and conclusion.

**CARE PLAN EVALUATION**

Name:

Sr. No	Particular	Marks	Marks Obtained
1.	History taking	03	
2.	Assessment and nursing diagnosis	05	
3.	Planning of care	05	
4.	Implementation and evaluation	08	
5.	Follow up care	02	
6.	Bibliography	02	
	<b>Total</b>	<b>25</b>	

### EVALUATION FORMAT FOR HEALTH TALK

Name of the student: \_\_\_\_\_

Area of experience: \_\_\_\_\_

Period of experience: \_\_\_\_\_

Supervisor: \_\_\_\_\_

Scores: 5 = Excellent, 4 = Very good, 3 = Good, 2 = Satisfactory / fair, 1 = Poor

Sr. No	Particular	1	2	3	4	5	Score
	<b>I) Planning and organization</b>						
	a) Formulation of attainable objectives						
	b) Adequacy of content						
	c) Organization of subject matter						
	d) Current knowledge related to subject Matter						
	e) Suitable A. V. Aids						
	<b>II) Presentation:</b>						
	a) Interesting						
	b) Clear Audible						
	c) Adequate explanation						
	d) Effective use of A. V. Aids						
	e) Group Involvement						
	f) Time Limit						
	<b>III) Personal qualities:</b>						
	a) Self confidence						
	b) Personal appearance						
	c) Language						
	d) Mannerism						
	e) Self awareness of strong & weak points						
	<b>IV) Feedback:</b>						
	a) Recapitulation						
	b) Effectiveness						
	c) Group response						
	<b>V) Submits assignment on time</b>						

Total 100 Mark (100 marks to be converted into 50)



### CLINICAL EVALUATION CRITERIA

Name of the Student: - \_\_\_\_\_

Year \_\_\_\_\_ Area of clinical experience \_\_\_\_\_

Duration of posting in week's \_\_\_\_\_ Name of the supervisor \_\_\_\_\_

Scores:- 4 = Very good, 3 = Good, 2 = Satisfactory / fair, 1 = Poor

**Total Marks :- 100.**

Sr No	Criteria	Grades			
		4	3	2	1
<b>I</b>	<b>Personal and professional behavior</b> 1. Wears clean and neat uniform and well groomed. 2. Arrives and leaves punctually. 3. Demonstrates understanding of the need for quietness in speech and manner and protects the patient from undue notice. 4. Is notably poised and effective even in situations of stress. 5. Influential and displayed persuasive assertive leadership behavior.				
<b>II</b>	<b>Attitude to Co-workers and patients</b> 1. Works well as member of nursing 2. Gives assistance to other in clinical situations. 3. Understands the patient as an individual. 4. Shows skills in gaining the confidence and co-operation of child & relatives, tactful and considerate.				
<b>III</b>	<b>Application of knowledge</b> 1. Possess sound knowledge of paediatric conditions. 2. Has sound knowledge of scientific principles. 3. Has knowledge of normal growth and development of children. 4. Has knowledge of current treatment modalities inclusive of medicine, surgery, pharmacology and dietetics. 5. Takes interest in new learning from current literature and seeks help from resourceful people.				
<b>IV</b>	<b>Quality of clinical skill</b> 1. Able to elicit health history of child and family accurately. 2. Skillful in carrying out physical examination, developmental screening and detecting deviations from normal. 3. Identifies problem and sets priority and grasps essential while performing duties.				

Sr No	Criteria	Grades			
		4	3	2	1
	4. Able to plan care both preoperatively and postoperatively. 5. Applies principles in carrying out duties promptly. 6. Has technical competence in performing nursing Procedures. 7. Able to calculate and administer medicines accurately. 8. Resourceful and practices economy of time material and energy. 9. Recognizes the role of play in children and facilitates play therapy in hospitalized children. 10. Observes carefully, reports & records signs and symptoms and other relevant information. 11. Uses opportunities to give health education to patients & relatives.				

Grade

Very good = 70% and above

Good = 60-69%

Satisfactory = 50-59%

Poor=below = 50%

Remarks for improvement:

Students remark:

Signature of the student

Signature Of The Teacher

### PROFORMA FOR ASSESSMENT OF GROWTH & DEVELOPMENT

(Age Group Birth to 5 Years)

#### I Identification of Data

Name of the child :

Age :

Sex :

Date of admission :

Diagnosis :

Type of delivery : normal / instrumental / LSCS

Place of delivery : hospital / home

Any problem during birth : yes /no

If yes give details :

Order of birth :

#### II growth and development of child and comparison with normal :

Anthropometry In the child normal

Weight  
 Height  
 Chest circumference  
 Head circumference  
 Mid arm circumference  
 Dentition

Development Milestones	In Child	Comparison with Normal
1. Responsive smile 2. Response to sound 3. Head control 4. Grasps object 5. Rolls over 6. Sits alone 7. Crawls or creeps 8. Thumb –finger coordination (prehension) 9. Stands with support 10. Stands alone 11. Walks with support 12. Walks alone 13. Climbs steps 14. Runs		

#### IV Social Emotional and Language Development

Social & emotional development	In child	Comparison with normal
Responds to closeness when held smiles in recognition recognized mother coos and gurgles seated before a mirror, regards image discriminates strangers wants more than one to play says mamma, papa responds to name, no or give it to me. Increasingly demanding offers cheek to be kissed can speak single word use pronouns like I, me, you, asks for food, drinks, toilets, plays with doll, gives full name can help put things away understands differences between boy and girl washes hands feeds himself/ herself repeats with number understands under, behind, inside, outside dresses & undresses		

#### V] Play Habits

Does he play alone or with other children?

**VI] Toilet Training**

Is the child trained for bowel movement and if yes, at what age:  
Has the child attained bladder control and if yes, at what age:  
Does the child use the toilet?

**VII] Nutrition**

- Breast feeding (as relevant to age)
- Weaning has weaning started for the child : YES/NO if yes, at what age and specify the weaning diet. Any problems observed during weaning:

**Meal pattern at home**

Sample of a days meal: daily requirements of chief nutrients:

**Breakfast: Lunch: Dinner: Snacks:**

**VIII] Immunization status and schedule of completion of immunization.**

**IX] Sleep Pattern**

How many hours does the child sleep during day and night?  
Any sleep problems observed and how it is handled:

**X] Schooling**

Does the child attend school?  
If yes, which grade and report of school performance:

**XI] Parent child relationship**

How much time do the parents spend with the child?  
Observation of parent child interaction

**XII] Explain parental reaction to illness and hospitalization**

**XIII] Childs reaction to the illness and hospital team**

**XIV] Identification of needs on priority**

**XV] Conclusion**

**XVI] Bibliography**

**EVALUATION CRITERIA FOR ASSESSMENT OF GROWTH AND DEVELOPMENT (Birth to 5 year)**

Sr. No	Particular	Marks	Marks Obtained
1.	Adherence to format	02	
2.	Skill in physical examination and assessment	08	
3.	Relevance and accuracy of data recorded	05	
4.	Interpretation and identification of needs	02	
5.	Bibliography	03	
	<b>Total</b>	<b>20</b>	

Note:- same format to be used for assesment of infant, toddler & Preschooler child.

**PROFORMA FOR EXAMINATION AND ASSESSMENT OF NEW BORN**

**I] Biodata of baby & mother:**

Name of the baby (if any) :

Birth weight :

Age :

Present weight :

Mothers name :

Period of gestation :

Date of delivery :

Identification band applied :

Type of delivery : Normal / Instruments / Operation

Place of delivery : Hospital / Home

Any problems during birth :Yes/No

If yes explain :

Antenatal history :

Mother's age:Height : Weight :

Nutritional status of mother:

Socio-economic background:

**II] Examination of the baby**

Characteristics	In the baby	Comparison with the normals
1. Weight		
2. Length		
3. Head circumference		
4. Chest circumference		
5. Mid-arm circumference		
6. Temperature		
7. Heart rate		
8. Respiration		

### **III] General behavior and observations**

Color:

Skin/Lanuga:

Vernix caseosa:

Jaundice:

Cyanosis:

Rashes:

Mongolian spot:

Birth marks:

Head:

- Anterior fontanel:
- Posterior fontanel:
- Any cephalhematoma/ caput succedaneum
- Forceps marks (if any):

Face :

- Cleft lip/palate :

Eyes:

Ear cartilage:

Trunk :

- Breast nodule
- Umbilical cord
- Hands

Feet /sole creases :

Legs :

Genitalia :

Muscle tone :

Reflexes :

- Clinging
- Laughing /sneezing
- Sucking
- Rooting
- Gagging
- Grasp
- Moro
- Tonic neck reflex

Cry : good / week :

APGAR scoring at birth :

First feed given :

Type fo feed given :

Total requirement of fluid &calories :

Amount of feed accepted :

Special observations made during feed :

Care of skin :

Care of eyes, nose, ear, mouth :

Care of umbilicus & genitalia :

Meconium passed/ not passed :

Urine passed or not passed :

**IV] Identification of health needs in baby and mother**

**V] Health education to mother about breast feeding  
Care of skin, eyes and umbilicus etc.**

**VI] Bibliography**

**Evaluation Criteria for Examination and Assessment of Newborn**

<b>Sr. No</b>	<b>Particular</b>	<b>Marks</b>	<b>Marks Obtained</b>
<b>1.</b>	Adherence to format	02	
<b>2.</b>	Skill in physical examination and assessment	08	
<b>3.</b>	Relevance and accuracy of data recorded	05	
<b>4.</b>	Interpretation priority needs identification of baby and mother	03	
<b>5.</b>	Bibliography	02	
	<b>Total</b>	<b>20</b>	

### CHILD HEALTH NURSING EVALUATION OF SEMINAR

**Name of the Student Nurse :**

**Date:**                      **Time :**

**Subject:**

**Topic:**

**Grade Given : Name of Evaluator :**

Sr No.	Criteria	1	2	3	4	5	Remarks
1.	<b>Knowledge of subject matter</b> a) Organization of subject matter. b) Classification of ideas with appropriate and interesting ideas. c) Depth and mastery of subject. d) Anticipated question and has prepared for answer. e) Selection and organization of A.V. aids f) Integration and correlation with other subject matters g) Submitted in time for correction						
2.	<b>Organization and management of classes</b> a) Budgeting of time b) Asked questions for classification c) Class participation						
3.	<b>Effectiveness of seminar</b> a) Introduction of Topic b) Ability to hold student attention c) Stimulate student participation						
4.	<b>Effectiveness of seminar</b> a) Questioning clear and stimulating b) Maintaining learning atmosphere c) Use of Black Board						
5.	<b>Personal Appearance</b> a) Neatness and professional appearance b) Degree of self confidence c) Language (Appropriate correct, clear, tone, mannerism) d) Punctuality(Starting lesson, completing lesson)						
	<b>Total marks out of 100</b>						

Evaluator's Comments:

Signature of the Student:

Signature of the Evaluator



## **PSYCHOLOGY**

**Placement: II Semester**

**Time Allotted Theory : 60 Hrs.**

**Practical : 15 Hrs.**

### **COURSE DESCRIPTION:**

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

### **OBJECTIVES:**

The course aims towards the developing students skills in –

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

### **COURSE CONTENTS**

#### **UNIT I - INTRODUCTION TO PSYCHOLOGY 3 hrs.**

- Definition, history and scope
- Branches and methods
- Relationship with other subjects
- Psychology and the student nurse
- Habits and skills

#### **UNIT II - SENSATION, ATTENTION AND PERCEPTION 6 hrs.**

- Sensation – Definition and sensory processes
- Problems in sensation
- Attention – Definition, characteristics and types
- Factors affecting attention
- Distraction and sustaining attention
- Perception – Definition and characteristics
- Perception of form, depth and movement
- Types and difficulties in perception
- Problems and nursing care

#### **UNIT III - LEARNING 5 hrs.**

- Definition, nature and conditioning theories
- Learning process, laws and types and factors
- Learning during health and sickness

**UNIT IV- MEMORY AND FORGETTING 5 hrs.**

- Memory – Definition and nature
- Memory models and factors affecting memory
- Methods to improve memory
- Forgetting – Definition, explanation of forgetting
- Memory during health and sickness
- Forgetting during health and sickness

**UNIT V- MOTIVATION 6 hrs.**

- Definition, nature and theories
- Needs and motives – Biological and social
- Frustration and conflicts
- Types of conflicts
- Self-actualization
- Application in nursing care

**UNIT VI- EMOTION 5 hrs.**

- Definition and meaning, theories
- Expressions and perceptions
- Emotions in sickness, nursing care

**UNIT VII ATTITUDES 5 hrs.**

- Definition and nature, theories
- Factors influencing attitude formation
- Role of attitudes in health and sickness

**UNIT VIII- INTELLIGENCE AND ABILITIES 6 hrs.**

- Definitions and nature, theories
- Psychological testing and measurement
- Mental retardation and IQ
- Intelligence and abilities during sickness

**UNIT IX- PERSONALITY 7 hrs.**

- Definition, nature, factors influencing personality
- Theories of personality development
- Defence mechanism
- Psychological problems
- Personality disorders and nursing

**UNIT X -INDIVIDUAL DIFFERENCE 4 hrs.**

- Definition and significance
- Heredity and environment
- Role in health and sickness
- Implications in nursing

**UNIT XI - PSYCHOLOGICAL ASPECTS OF NURSING 5 hrs.**

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

**UNIT XII -MENTAL HYGIENE 3 hrs.**

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

**Theory: 25 Marks**

**Total: 25 Marks**

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

Unit test: 25 Marks

Prefinal: 75 Marks

Written Assignment: 25 Marks

**Total: 125 Marks**

(125Marks to be converted into 25 Marks)

**External Assessment: 75 Marks**

**REFERENCES:**

1. Bhatia, B. D. and Craig, M: Elements of psychology and mental hygiene for nurses; Chennai: Orient Longman Pvt. Ltd
2. Dandekar, W.N.: Fundamentals of experimental psychology; Kolhapur: Moghe Prakashan
3. Hurlock, E.: Developmental psychology; Singapore: Tata Mc Graw Hill York, Macmillan Co.
- 4) T.N.A.I. (1966) : Physics and Chemistry; Laboratory Manual for Student Nurses; 3rd Ed. New Delhi, T.N.A.I.
- 5) Waters, M.(1958) : Elementary physics for Nurses; 6th ed London, Faber and fabor.
- 6) Kigour, O. F. G.(1978): An Introduction to the physical aspects of Nursing

## INTRODUCTION TO COMPUTER

**Placement: II Semester**  
**Class - 05 + lab 20**

**Theory – 25 Hours**

**Course Description:** This course is designed for students to development basic understanding of uses of computer and its applications in nursing.

**Specific objectives :** After the completion of the course, students will able to :

1. Identify and define various concepts used in computer.
2. Identify and describe application of computer in nursing.
3. Describe and use the DOS and Windows
4. Describe and demonstrate skill in the use of MS-office.
5. Describe and demonstrate skill in using multimedia and computer aided teaching and testing.
6. Identify and demonstrate use of internet and e-mail
7. Describe and use the statistical packages
8. Describe the use of Hospital Management System.

U nit	(hrs.)	Learning objective	Content	Teaching learning activities	Assessment methods
I	<b>13 Hrs.</b> T=1 P=11	<ul style="list-style-type: none"> <li>•Identify and define various concepts used in computer</li> <li>•Identify application of computer in nursing</li> <li>•Describe and Use the Disk Operating System</li> <li>•Demonstrate skill in the use of MS Office</li> </ul>	<b>Introduction</b> <ul style="list-style-type: none"> <li>•Concepts of Computers</li> <li>•Hardware and software; trends and technology</li> <li>Application of computers in nursing</li> <li>•Introduction to disk operating system                             <ul style="list-style-type: none"> <li>○ DOS</li> <li>○ Windows (all version)</li> </ul> </li> <li>•Introduction                             <ul style="list-style-type: none"> <li>○ MS-Word</li> <li>○ MS-Excel with pictorial presentation</li> <li>○ MS - Access</li> <li>○ MS - Power point</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>•Lecture Discussion</li> <li>•Demonstration</li> <li>•Lecturer Discussion</li> <li>•Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>•Short answers</li> <li>•Objective type.</li> <li>•Short answers</li> <li>•Objective type</li> <li>•Practical Exam.</li> </ul>
II	<b>3 Hrs.</b>	<ul style="list-style-type: none"> <li>•Demonstrate skill in</li> </ul>	<ul style="list-style-type: none"> <li>•Multimedia; types and uses</li> </ul>	<ul style="list-style-type: none"> <li>•Lecture Discussion</li> </ul>	<ul style="list-style-type: none"> <li>•Short answers</li> </ul>

Unit	(hrs.)	Learning objective	Content	Teaching learning activities	Assessment methods
	T=1 P=2	using in using multi-media • Identify features of computer aided teaching and testing	• Computer aided teaching & testing.	• Demonstration	• Objective type • Practical Exam and Viva Voce
III	2 Hrs. T=1 P=3	• Demonstrate use of internet and Email	• Use of Internet and : e-mail	• Lecture Discussion • Demonstration • Practice Session	• Short answers • Objective type • Practical Exam and Viva Voce
IV	4 Hrs. T=1 P=2	• Describe and use the statistical packages	• Statistical packages : types and their features • Use of Internet and e-mail • Accessing the website	• Lecturer Discussion • Demonstration • Practice Session	• Short answers • Objective type • Practical Exam and Viva Voce
V	2Hrs. T=1 P=2	• Describe the use of Hospital Management System	• Hospital Management System : Types and uses	• Lecture Discussion • Demonstration	• Short answers • Objective type • Practical Exam and Viva Voce

#### REFERENCES:

- 1) Jain and saakshi (2004), computers for nurses
- 2) Kalicharan (2002), introduction to computer science
- 3) Nicoll (2001), nurses guide to internet. third edition.
- 4) Phatak m et al (2001), multimedia techniques. first edition, nirali prakashan.
- 5) Rajaraman (1999), fundamentals of computer. tata macrohill publication, new delhi.
- 6) Sanjevkumar (2002), a textbook of computer applications. Educational and technical publishers, new delhi.

**Evaluation Scheme**

Internal assessment 25 Marks

Periodical : 25 (Send to University)

Pre-final : 50

**Total : 75**

**EXTERNAL ASSESSMENT**

**College examination : 75 Marks**

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



## **SEMESTER - III**

## **SEMESTER – III SOCIOLOGY**

**Placement: III Semester**

**Time Allotted: Theory: 60 Hrs.**

### **COURSE DESCRIPTION:**

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

### **OBJECTIVES:**

**At the end of the course, the student will**

- 1) Describe sociological concepts applicable to nursing
- 2) Determine role of sociology in nursing as related to social institutes in India.
- 3) Develop positive attitudes towards individual family and community.

### **COURSE CONTENTS:**

#### **UNIT I INTRODUCTION OF SOCIOLOGY TO NURSING 5 hrs.**

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

#### **UNIT II 15 hrs.**

- Individual and society
- Socialization
- Interdependence of the individual and society
- Personal disorganization

#### **UNIT III 5 hrs.**

- Culture
- Nature of Culture
- Evolution of Culture
- Diversity and uniformity of Culture

#### **UNIT IV 10 hrs.**

- Social organization
- Social groups, crowds and public groups, nations, race
- Social institutions: The family, marriage, education, religion, arts, economic organization, political organization.
- The urban and rural community in India: Ecology, characteristics of the village, characteristics of town and city
- Social stratification: Class and caste



**UNIT V 5 hrs.**

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

**UNIT VI 5 hrs.**

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

**UNIT VII 15 hrs.**

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

**EVALUATION :**

Internal Assessment: 25 Marks

Theory: 15 Marks

Written Assignment: 10 Marks

**Total: 25 Marks**

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

**Internal Assessment (Theory): 15 Marks**

Unit Test – I 25 Marks

Pre-Final: 75 Marks

**Total: 100 Marks**

(100 Marks from Unit Test & Pre-Final to be converted into 15 Marks)

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

**REFERENCES:**

- 1) Mac Iver and Page : Society; India : Macmillan, 1964 .
- 2) MacIverand Page : Society: An introductory analysis; London, 1956 .
- 3) Murdock: Social structure; New york,1944 .
- 4) Fairchild, H.P. : Dictionary of sociology; New York, 1944 .
- 5) Barnes, H.E.: Social institutions; New York, 1946 .
- 6) Mamoria, C. B. Social problems and social disorganization in India; Mumbai, 2003.
- 7) Manelkar, R. K.: Sociology for nurses; Mumbai, 2002

## COMMUNITY HEALTH NURSING

**Placement: III Semester**

**Time Allotted Theory : 60 Hrs.**

**Practical : 240 Hrs.**

### **COURSE DESCRIPTION:**

The course enables the students to acquire knowledge and understanding of the changing concepts of comprehensive community health nursing practice, the national health care delivery system and to participate in the delivery of community health nursing practice. This course also broadens the understanding in public health nursing administration, responsibility of nurse for early case finding, health assessment and health education based on principles of primary health care, Nursing process approach and comprehensive nursing care to the individual, family and community.

### **OBJECTIVES:**

At the end of the course the student will

- 1) Explain the concept of various factors contributing the health of individual family and community.
- 2) Explain and analyze health need of individual family and community based on factors contributing to health and illness
- 3) Describe national health care delivery system.
- 4) Describes epidemiological methods and principles of prevention and control of illness in the community.
- 5) Study implementation of national programmes and role of CHN in prevention and control of diseases.
- 6) Identify the role of personnel working in the community health setup and appreciate the integrated approach to community health.
- 7) Plan the work of community health nurse and supervise the health workers.
- 8) Study concept of public health administration and role of nurse as manager and supervisor.

### **COURSE CONTENT :**

#### **UNIT I 8 hrs.**

- Introduction
- Introduction to community health – Concepts, Principles and elements of Primary Health Care.
- Introduction to Community Health Nursing
- Concepts of Community Health Nursing- Community Nursing Process.
- Objectives, scope and Principles of Community Health Nursing.

**UNIT II 10 hrs.**

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

**UNIT III 10 hrs.**

- Organization and administration of health services at central, state, district level and Rural Health Services (Panchayati Raj).
- National Health Policy
- Health Care Delivery system in India.
- Health team concept.
  - central, state, district level and Rural Health Services (Panchayati Raj).
  - System of medicines
  - Centrally sponsored health schemes
  - Role of voluntary health organizations and international health agencies
  - Role of health personnel in the community
  - Public health legislation.

**UNIT IV 5hrs.**

- Health Education
- Aims, concepts and scope of health education.
- Communication and health education.
- Methods and media for health education in community.
- Planning for health education and role of nurse in Information Education & Communication

**UNIT V 15 hrs.**

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

**UNIT VI 6 hrs.**

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

**UNIT VII 6 hrs.**

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

**PRACTICUM**

- Each students will prepare to community profile.
- The students will be allotted families to give comprehensive nursing care through nursing process approach in Urban / Rural area.
- The students will participate in activities of Primary Health Center, Sub Centre, Community Health Centres, MCH Centre etc. Visit to the selected Health and Welfare agencies.
- To plan and conduct Health Education Programmes – individual/ groups/ community/Mass Health Education and Health Exhibition, to prepare simple A.V. AIDS.
- To supervise students and other health workers in the community settings. Students will be posted atleast 2 weeks for rural community health experience.
- To conduct simple family health survey analyze the data collected (Community diagnosis).
- To write two family health care studies in urban and rural area. (One in each)

**CLINICAL EXPERIENCE: Total Hours : 240****I) Urban Public Health Experience Hours 160**

- Family oriented Health care **hours 40**
- Community Assessment / Community diagnosis **hours 30**  
(Family Health Survey).
- School Health Programme **hours 20**
- Health Education **hours 20**
- Urban Public Health Centres (Various Clinics) **hours 30**
- Educational Visits **hours 20**

**II) Rural Public Health Experience hours 80 (2 weeks)**

1. Participation in Primary Health Care **hours 30**  
PHC, SC, R.H., etc
2. Family oriented Health care **hours 10**
3. Public Health Administration **hours 10**
4. Visits to various Health agencies **hours 20**  
(Zila Parishad, D.T.C. District Training Centre, Community Health Centre)
5. Health Education Programme **hours 10**

**EVALUATION :**

**Internal Assessment:**

Theory: 25 Marks

Practical: 50 Marks

**DETAILS AS FOLLOWS:**

*Internal Assessment (Theory): 25 Marks*

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

*Unit Test – I : 25 Marks*

*Pre-Final : 75 Marks*

*Seminar : 100 Marks*

**Total: 200 Mark**

*(200 Marks of theory to be converted into 25 Marks)*

**Internal Assessment (Practical): 50 Marks**

**Practical Exam:**

Unit Test –I : 25 Marks

Pre-Final Exam : 50 Marks

**Clinical Evaluation & Clinical Assignment: 325 Marks**

1. Clinical Evaluation (family oriented care Urban Area) 100 Marks
2. Community Health Survey & Community diagnosis 25 Marks
3. Family Health Care Study (Urban & Rural settings) 100 Marks  
(50 marks each)
4. School Health Programme 25 Marks
5. Health Education 25 Marks
6. Rural Public Health (as per guideline) : 50 Marks

**Total: 400 Marks**

(400 Marks from Practical to be converted into 50 Marks)

**External Assessment: (University Examination)**

Theory : 75 Marks

Practical : 50 Marks

## REFERENCES

1. Basvanthappa B. T. – Community Health Nursing 2002.
2. Park J. E.- Preventive and social Medicine 17<sup>th</sup> edition 2003
3. Stanhope - Community nursing and promoting Health of the aggregate families and Individuals - II<sup>nd</sup> edition 1988
4. Stanhope - Community Health Nursing process and practice for practitioner IV<sup>th</sup> Edition 1962
5. Stanhope Routh- Community Health Nursing Workbook, Family as a client, New Delhi 1982
6. Spradely and Barbara – Community Health Nursing
7. Mahajan B. K. – Textbook of Preventive and Social Medicine, II<sup>nd</sup> edition 1995.
8. Najoo Kotwal – Revised by TNAI “Public Health Manual” 1989

## **MENTAL HEALTH NURSING**

**Placement: III Semester**

**Allotted Theory : 60 hrs.**

**Practical :240 hrs.**

### **COURSE DESCRIPTION**

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

### **OBJECTIVES:**

At the end of course, the student will

1. Identify and describe the philosophy and principles of mental health nursing.
2. Describe the historical development of mental health and psychiatric nursing.
3. Classify mental disorders.
4. Develop skills 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 5hrs.**

- Introduction and Historical Development
- History of psychiatry
- Historical development of mental health nursing.
- Philosophy, principles of mental health and psychiatric nursing.
- Concept of normal and abnormal 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 5 hrs.**

- Classification and Assessment of Mental Disorders
- Terminologies used in Psychiatry

- Classification of mental disorders- ICD-10 classification
- Etiological factors and psychopathology of mental disorders
- History taking and mental status examination.

#### **UNIT III 4 hrs.**

- Therapeutic Communication
- Communication process
- Interview skill
- Therapeutic communication techniques.
- Nurse patient Relationship.
- Therapeutic impasse and it's management
- Process recording.

#### **UNIT IV 20 hrs.**

- Management of Mental Disorders
- Etiological factors, psychopathology, types, clinical features diagnostic criteria, treatment and nursing management of patient with following disorders.
- Neurotic Disorders:
  - Anxiety disorders - General and Panic
  - Depressive Neurosis
  - Obsessive Compulsive Neurosis.
  - Phobic Neurosis
  - Hypochondriacal Neurosis.
  - Stress related and Somatoform disorders
  - Hysterical disorder.
- Psychotic Disorders:
  - Schizophrenic disorders
  - Affective and Organic Psychosis
  - Organic Brain Syndromes – acute & chronic
- Psychosomatic disorders
- Personality disorders
- Sexual Disorders
- Disorders of childhood:- Specific developmental disorders, Pervasive developmental disorders, Attention deficit disorders, Conduct disorders, Enuresis and Encopresis, Speech Disorders, Habit disorders, other disorders.
- Adolescent disorders –Attention deficit hyperactivity disorder, conduct disorder, substance abuse, depression and suicide, eating disorders, running away.

#### **UNIT V 3 hrs.**

- Management of Patient with Substance Use Disorders
- Substance use and misuse
- Dependence, intoxication and withdrawal
  - Classification of psychoactive substances
  - Etiological & contributory factors



- Psychopathology
- Clinical features
- Diagnostic criteria
- Treatment and nursing management of patient with substance use disorders.
- Preventive and rehabilitative aspects in substance abuse.

#### **UNIT-VI 2 hrs.**

- Management of Mental Sub-Normality / Mentally Challenged
- Classification of mental sub-normality
- Etiological factors, Psychopathology, Psychometric assessment, Diagnostic criteria and management of sub-normality

#### **UNIT VII 4 hrs.**

- Psychiatric Emergencies
- Types of emergencies
- Psychopathology, Clinical feature, Assessment and diagnosis, Treatment and nursing management of patient with psychiatric emergencies such as - Suicide, Stupor and Catatonic syndrome, Aggression, other psychiatric emergencies
- Crisis Intervention therapy

#### **UNIT VIII 12 hrs.**

- Therapeutic Modalities
- Principles, indication, contraindications and role of nurse in various treatment method:
  - Pharmacotherapy
  - Therapeutic community and Milieu therapy
  - Psychotherapy - Psychoanalysis, Behavior therapy, Cognitive Therapy, Supportive Therapy, Hypnosis, Abreaction, Relaxation Therapies, Biofeedback.
  - Group therapy
  - Family therapy
  - Occupational Therapy
  - Electro convulsive therapy
  - Other miscellaneous therapies.

#### **UNIT IX 5 hrs.**

- Preventive Psychiatry
- Model of prevention
- Role of nurse in preventive psychiatry
- Psychiatric social worker
- Community mental health nursing
- Community mental health Services and agencies
- National mental health programme

## PRACTICUM

The student will be provided opportunity to:

- Observe, record and report the behavior of their selected patients.
- Record the process of interaction.
- Assess the nursing needs of their selected patients. Plan and implement the nursing intervention.
- Counsel the attendant and family members of patient.
- Participate in the activities of psychiatric team
- Conduct an awareness programme on preventive Psychiatry
- Write observation reports after a field visit to the following places:
  - Child guidance clinic
  - School / special School (for mentally subnormal)
  - Mental Hospital
  - Community mental health center
  - De-addiction center.

## CLINICAL EXPERIENCES

**Total Hours. : 240 hrs.**

- |   |                  |
|---|------------------|
| 1. Psychiatric ward male & female   | <b>hours 120</b> |
| 2. Psychiatric OPD  | <b>hours 30</b>  |
| 3. De-addiction center  | <b>hours 30</b>  |
| 4. Various departments<br>(ECT, CGC, Occupational Therapy, Behavioral Therapy, Psychotherapy) | <b>hours 25</b>  |
| 5. Visit to Mental Hospital   | <b>hours 10</b>  |
| 6. Community Mental Health (Visit to Rehabilitation centers)                                  | <b>hours 25</b>  |

## EVALUATION:

### Internal Assessment:

**Theory: 25 Marks**

**Practical: 50 Marks**

**Internal Assessment (Theory) 25 Marks**

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

*Unit Test –I: 25 Marks*

*Pre - Final: 75 Marks*

*Seminar : 100 Marks*

**Total: 200 Marks**

*(200 Marks of Theory to be converted into 25 Marks)*

### Internal Assessment (Practical): 50 Marks

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

Unit Test –I: 25 Marks

Pre-Final Exam 50 Marks

### **THEORY EVALUTION :**

<b>Clinical Evaluation &amp; Clinical Assignment:</b>	<b>625 Marks</b>
1. History taking: Two (50 marks each)	100 Marks
2. MSE: Two (50 marks each)	100 Marks
3. Process Recording: Two (25 marks each)	50 Marks
4. Nursing Care Plan: Two (50 marks each)	100 Marks
5. Clinical performance evaluation (Male or female ward)	100 Marks
6. Case Study: One	50 Marks
7. Case Presentation: One	50 Marks
8. Drugs study	50 Marks
9. Health Education: One	25 Marks
<b>Total:</b>	<b>700 Marks</b>
(700 Marks from practical to be converted into 50 Marks)	

### **(University Examination)**

Theory:	75 Marks
Practical	50 Mark

### **REFERENCES:-**

1. Principles and Practice of Psychiatric Nursing – By Stuart and Luraia
2. Comprehensive Psychiatric Nursing – Jidith Haber
3. Community Psychiatry – Kaplan
4. Psychiatric Nursing – Mary Townsend
5. A Short Textbook of Psychiatry – Neeraj Ahooja
6. A Textbook of Psychiatric Nursing – Bimla Kapoor
7. Lippincott's Manual of Psychiatric Nursing Care Plan.
8. Psychiatric Mental Health Nursing – Barbara Schoen Johnson, Lippincot company.
9. Mental Health Nursing – Mosby's Review Series – Paulette D. Rollant, Denise B. Deppoliti.
10. A Guide to Mental Health Nursing and Psychiatric Nursing – Sreevani, Jaypee Brothers Publication.
11. Question Bank Mental Health Nursing for U.G. Nursing students - Sreevani, Jaypee Brothers Publication.
12. Psychosocial Nursing for General Patient Care, 2<sup>nd</sup> Ed.- 02 – Gorman, Jaypee Brothers Publication.



## **SEMESTER - IV**

## INTRODUCTION TO NURSING EDUCATION

**Placement– IV Semester**

**Time allotted Theory : 60 hrs.  
Practical : 75 hrs.**

### **COURSE DESCRIPTION:-**

This course introduces the students to Principles and concepts of Education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programme in Nursing.

### **OBJECTIVES ;**

At the end of the course, the students will

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

### **COURSE CONTENTS**

#### **UNIT I INTRODUCTION TO EDUCATION 5 hrs.**

- Meaning, aims, function and principles
- Philosophy of education
- Factors influencing development of philosophy of Nursing education
- Nursing profession –Definition, concept, importance and characteristics of nursing profession
- Development of nursing education in India before and after independence
- Nursing education programmes in India – Basic, Post Certificate, Degree, post-graduation and Ph. D.
- High power committee recommendations for nursing education
- Qualities, role and responsibilities of a nursing teacher

#### **UNIT II NURSING CURRICULUM DEVELOPMENT 8 hrs.**

- Organization of Nursing Curriculum
- Development of Nursing Curriculum.
- Curriculum types
- Curriculum Committee
- Curriculum planning
- Formulating philosophy and objectives.

- Selecting learning experiences and clinical components of nursing education.
- Evaluation of curriculum.

### **UNIT III TEACHING LEARNING PROCESS 5 hrs.**

- Meaning of education, aims, functions and
- principles of teaching
- Principles and maxims of teaching
- Formulating objectives
- Lesson planning
- Nature and characteristics of learning

### **UNIT IV METHODS OF TEACHING 10 hrs.**

- Definition, Purposes, Advantages, Disadvantages, Steps, Procedures, Evaluation of –
  - Lecture
  - Discussion
  - Demonstration
  - Group Discussion
  - Project
  - Role – Play
  - Panel Discussion
  - Symposium
  - Seminar
  - Field Trip
- Workshop
- Exhibition
- Programmed instructions
- Computer assisted learning

#### **Clinical teaching methods**

- Case methods
- Case presentation
- Nursing rounds & Reports
- Bedside clinics
- Conference (Individual & group)
- Recording of interaction process

### **UNIT V EDUCATIONAL TECHNOLOGY 5 hrs.**

- Educational Media
- The communication process, factors affecting communication
- Purposes and types of audio visual aids
- Graphic aids - Chalk board, Charts, Graphs, Posters, Flash cards, flannel graph/Khadigraph, Bulletin, cartoon
- Three demonstrational aid, objects, specimen, models, Puppets
  - Printed aids – slides, films and televisions, VCR, VCP

- Overhead projector camera, microscope
- Audio aids,- Tape recorder, public address system
- system computer

#### **UNIT VI METHODS OF ASSESSMENT 10 hrs.**

- Purpose and scope of Evaluation & assessment
- Criteria for selection of assessment techniques & methods
- Blueprints
  - Assessment of knowledge, essay type questions, SAQ (Short Answer Question), LAQ (Long Answer Question), MCQ (Multiple Choice Question)
  - Assessment of skills :
    - Observation, checklist, practical examination, Viva, Objective structured clinical examination.
  - Assessment of attitudes
  - Setting of question paper
  - Scoring of Answer paper
  - Reforms in nursing Educational system

#### **UNIT VII MANAGEMENT OF SCHOOL OF NURSING 7hrs.**

- Planning and organizing of school of Nursing
- Recruitment of teaching staff
- Budget facilities for the school
- Students selection and admission procedure
- Administrative planning for students
- Welfare service for students
- Maintainance of school Records
- Preparation of annual reports
- INC guidelines for school of nursing

#### **UNIT VIII GUIDANCE AND COUNSELLING 5 hrs.**

- Definition and basic principles
- Organization of guidance & counseling
- Counseling process
- Managing disciplinary problems
- Management of crisis

#### **UNIT IX IN SERVICE EDUCATION 5 hrs.**

- Introduction to nature and scope of in-service education programmes
- 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**

1. Conduct Practice Teaching : 5  
Theory Teaching : 3  
Clinical Teaching : 2
2. Visit to Nursing colleges and schools
3. Prepare different types of teaching Aids.
4. Prepare rotation plans
5. Study various Nursing Programme Syllabus
6. Plan, organize and conduct 'one' service education programme

### **CLINICAL EXPERIENCES Total Hours. : 75 hrs.**

- |  |          |
|--|----------|
| - Practice Teaching (Theory + Practical) | hours 20 |
| - Prepare Teaching Aids                  | hours 10 |
| - Attending peer group Teaching          | hours 05 |
| - Preparing rotation plan                | hours 05 |
| - Study various Nursing Programme        | hours 10 |
| - Plan in service education Programme    | hours 05 |
| - Visiting Nursing Schools and Colleges  | hours 20 |

### **EVALUATION:**

#### **Internal Assessment:**

Theory: 15 Marks

Clinical Assignment: 10 Marks

**Total: 25 Marks**

Details as follows:

#### **Internal Assessment (Theory): 15 Marks**

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

Unit Test –I : 25 Marks

Pre-Final : 75 Marks

**Total : 100 Mark**

(100 Marks from Unit Test and Pre-Final (Theory) to be converted into 15 Marks)

#### ***Clinical Assignment: 10 Marks***

*Practice Teaching (100 Marks Each)*

*Theory – 3: 300 Marks*

*Clinical – 2: 200 Marks*

***Total: 500 Marks***

*(500 Marks from Clinical Assignment to be converted into 10 Marks)*

***External Assessment (Theory): 75 Marks***



## REFERENCES

1. Bevis Oliva Em, Curriculum Building In Nursing – A Process, 3<sup>rd</sup>ed; St. Louis; C. V. Mosby Co. 1982
2. Basavan thappa B. T. Nursing education, 1<sup>st</sup>ed. New Delhi: Jaypee Brothers, 2003
3. Bhatia, Kamala and Bhatia B. The Principles and methods of teaching. New Delhi, Seema offset, 1977.
4. Heidgerken Loretta, Teaching and learning in Schools of Nursing – Principles and Methods, 5<sup>th</sup>ed New Delhi : J. B. Lippincott, 2003
5. Hinchiff Sue, The Practitioner as a teacher 2<sup>nd</sup>ed. Harcourt Brace and Company Ltd. 1999
6. Indian Nursing council guide for School of Nursing in India, Revised 2<sup>nd</sup> ed. New Delhi 2001
7. Syllaby of various Nursing courses.

## **INTRODUCTION TO NURSING SERVICE ADMINISTRATION**

**Placement: IV semester**

**Time Allotted : Theory : 60 hours**

**Practical : 180 hours**

### **COURSE DESCRIPTION :**

This course is designated to give an opportunity to the students 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 the need for professional leadership.

### **OBJECTIVES :**

At the end of the course, the student will enable the students to:-

- Identify the Principles of administration.
- Describe the Principles and techniques of supervision.
- Explain the Principles and Methods of personnel management.
- Explain the principles of Budgeting.
- Organize and manage a Nursing Unit effectively.
- Identify dynamics of Organizational behavior, styles and functions of effective leadership.

### **COURSE CONTENTS**

#### **UNIT - I PRINCIPLE AND PRACTICE OF ADMINISTRATION 10 hrs.**

- Significance, elements and Principles of Administration.
  - Planning
  - Organization
  - Staffing
  - Directing
  - Controlling
  - Coordinating
  - Reporting
  - Budgeting
- Administration and Organization of Hospital.
  - Definition, Aims, Functions and roles of the hospital
  - Classifications of Hospitals Health Team
  - Ethical and legal aspects of hospital administration
  - Policies of Hospital, different departments with special emphasis to the department of nursing office management
  - Nursing management
  - Responsibilities of nursing personnel, specially of ward sister,
  - Medico –legal aspects
  - Concept of cost effectiveness

## **UNIT II NURSING UNIT MANAGEMENT 10 hrs.**

- Physical Layout of a Nursing Unit
  - Necessary facilities
  - Factors affecting the quality of nursing care
  - Maintenance of a therapeutic environment
  - Administration of the nursing unit
  - Management of patient care
  - Maintenance of the Physical environment
  - Assignment of duties and time plan
  - Patient assignment
  - Discharge Planning
  - Safety measures, prevention of accidents and infections
  - Maintenance of patients records and reports, legal responsibilities
  - Maintenance of quality nursing care
  - Nursing audit

## **UNIT III PERSONNEL MANAGEMENT 10 hrs.**

- Significance of Personnel management Staff recruitment and selection process appointment, promotions, transfers, remunerations, retraining, terminating
  - Personnel policies
  - Job specifications
  - Job description
  - Job Analysis
  - Staffing the unit
  - Staffing Philosophy
  - Staffing norms
  - Staffing Modules
  - Patient Classification System
  - Rotation plan
  - Leave planning

## **UNIT IV SUPERVISION 9 hrs.**

- Definition, nature, need Philosophy and objectives of supervision
  - Principles of supervision
  - Tools and techniques of supervision
  - Staff development
  - Orientation program
  - In service education
  - Continuing Education
  - Skill training
  - Leadership development
  - Problem solving process
  - Evaluation
  - Nursing audit

**UNIT V MATERIAL MANAGEMENT 9 hrs.**

- Material management – concept, need
- Principles of Material management
- Quality control - Inventory
- Care of equipments Stock keeping
- Role of Nursing personnel in Material management

**UNIT VI FINANCIAL MANAGEMENT 3 hrs.**

- Budgeting
  - Nature and purposes of Budgeting
  - Types of Budget
  - Principles of Budgeting
  - Financial Audits

**UNIT VII ORGANIZATIONAL BEHAVIOR 9 hrs.**

- Organizational behavior
- Group dynamics
- Human relations
- Morale Building
- Organization Communication
- Hospital Information system
- Public relations in Hospitals
- Leadership – Concepts, Manager behavior, Leader behavior Leadership – defined, Leadership Theories – Behavioral, Situational
- Leadership styles and functions,
- Transformational leadership
- Qualities of a leader
- Methods of reporting
- Maintaining records and reports

**PRACTICUM**

- Observe the functioning of Nursing administration at various levels i.e., Institutions, departments and units.
- Each student will practice ward management under supervision
- Student will prepare rotation plan of the staff duties, write reports, give verbal reports of the ward and assist in the maintaining the inventory of the nursing unit
- Develop an Assessment tool for performance appraisal
- Visit Private and Government Hospital and write observation reports
- Student will present one seminar during administration experience.

**Note :** visits for Nursing administration and Nursing Education may be planned together.

**CLINICAL EXPERIENCES**                      **Total Hours. : 180 hrs.**

- Ward Management                      Hours 90
- ICU Management                      Hours 30
- OPD / Departments                      Hours 30
- Visits to hospitals and other agencies                      Hours 30  
(ie. Govt, Pvt or corporation and any other)

**EVALUATION:**

**Internal Assessment:**

- Theory:                      15 Marks  
Clinical Assignment:                      10 Marks  
**Total:                      25 Marks**

**Details as follows:**

**Internal Assessment (Theory):                      15 Marks**

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

*Unit Test –I : 25 Marks*

*Pre-Final : 75 Marks*

*Seminar : 100 Marks*

***Total : 200 Mark***

*(200 Marks of Theory to be converted into 15 Marks)*

***Clinical Assignment:                      10 Marks***

*Practicum: Posting of ward management : 100 Marks*

*(100 Marks from Clinical Assignment to be converted into 10 Marks)*

**External Assessment (Theory) : 75 Marks**

(University Examination)

**REFERENCES**

1. B. T. Basvan thappa : Nursing Administration Edition Ist 2000 –
2. Jean Barret : i) Head Nurse – 1975 ii) Ward Management and Teaching
3. Goal : Hospital Administration
4. Koontz: Principles of Management IVth Edition 1968
5. Ann Marriner: Guide to Nursing Management
6. Keith Davis: Human relations at work the Dynamics of organizational behaviors 1967.

## INTRODUCTION TO NURSING RESEARCH AND STATISTICS

**Placement: IV Semester**

**Time Allotted Theory : 45 hrs. (30+15).**

**Practical: 120 hrs.**

### **COURSE DESCRIPTION**

This course is designed to assist the student to develop an understanding of the basic concepts principles of research and scientific inquiry including the identification of problem and steps in research methodology. This course also introduces the basic concepts, and principles of Statistical methods, the use of computers in conducting research project in groups and use the finding in nursing practice.

### **OBJECTIVES :**

At the end of course student will

- 1) Define the terms and concepts of nursing research.
- 2) Identify needs and scope of nursing research.
- 3) Be able to define research problems.
- 4) Locate and list sources of literature review including operational definition and conceptual framework.
- 5) Describe different approaches and research designs in nursing research.
- 6) Describe sample and sampling technique with special reference to survey method.
- 7) Develop tool for data collection.
- 8) Able to conduct pilot study to confirm reliability and validity of tool before data collection.
- 9) To enumerate steps of data analysis and present data summary in tabular form.
- 10) Use descriptive and co-relational statistics in data analysis.
- 11) Conduct group project and write report.
- 12) Use computer for research project.

## **COURSE CONTENT**

### **SECTION : A**

#### **INTRODUCTION TO RESEARCH METHODOLOGY**

##### **UNIT I 4 hrs.**

- Research definition
- Steps of scientific methods
- Need for nursing research
- Characteristics of good research. Research process

##### **UNIT II 8hrs.**

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

##### **UNIT III 3 hrs.**

- Research approaches:- historical, survey and experimental

##### **UNIT IV 8 hrs.**

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

##### **UNIT V 5 hrs.**

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

##### **UNIT VI 2 hrs.**

- Communication of research findings
- Writing Report:
  - Organizing materials for writing
  - Format of the report
  - Use of computers

## **SECTION: B**

### **INTRODUCTION TO STATISTIC**

#### **UNIT VII DESCRIPTIVE STATISTIC 6 hrs.**

- 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

#### **UNIT VIII DESCRIPTIVE STATISTIC 5 hrs.**

- Correlation
- Computation by rank difference methods
- Uses of correlation co-efficient

#### **UNIT IX BIOSTATISTIC 2 hrs.**

- Crude rates and standardized rates, ratio and estimation of the trends

#### **UNIT X INTRODUCTION TO COMUTERS IN NURSING 2hrs.**

- Basics of hardware and software
- Windows application Word, Excel and Power Point, Multimedia
- Introduction to database
- Use of statistical packages
- Introduction to internet and use of electronic mail
- Computer aided teaching and testing

Five hours of computer training may be given to students to impart computer literacy and knowledge in basic computer operation.

#### **PRACTICUM Total Hrs. 120**

- Selecting and conducting small group research project (The number of students in a group can be decided depending on the availability of Nursing faculty and interest of the students)
- Group studies may include, studying existing health problem and practices, Nursing procedures, Health records, patients records and survey of nursing literature.



**EVALUATION:**

Paper	Subject ** Introduction to Nursing Research Statistics	Durat ion	Internal Assessment	External Assessment	Total Marks
15.	**Theory	2	50 College level qualifying exam, minimum passing Marks 50%		050
6.	**Research Project		50 College level qualifying exam, minimum passing Marks 50%		050

**Note:** \*\* College level qualifying exam to appear in University Examination, minimum passing Marks 50%. (Not University Examination)

**Internal Assessment : 100 Mark**

Total 150 Marks to be converted in to 100 Marks Out of 100 Marks to be send to the University

Unit Test –I: 25 Marks (15 marks research + 10 marks statistics)

Pre-Final: 75 Marks (55 marks research + 20 marks statistics)

**Practical – Research Project: 50 Mark****REFERENCES**

1. Polit, D.F. and Hungler B.P. Nursing Research, Principles and Methods (6<sup>th</sup>ed) Lippin Cott. Philadelphia, 1999.
2. Best, J. W. and Kahn, V.J. Research in Education (7<sup>th</sup>ed) Prentice - Hall of India, New Delhi, 2001.
3. Smith, P. Research Mindedness for Practice. An interactive approach for Nursing and Health Care, Churchill Livingstone, New York, 1997.
4. Brink P. J. and Wood, M.J. Basic steps in Planning Nursing Research from Questions to Proposal (3<sup>rd</sup>ed) Jones and Barlett Publishers, Boston, 1998.
5. Basavan thappa, B. T. Nursing Research. Jay Pee, Mumbai.
6. Singh I, Elementary Statistics for Medical Workers, 1<sup>st</sup> ed., Jaypee brothers Medical Publishers (P) Ltd., Delhi, April 1990.
7. Polit, D. F. and Beck, C.T., Nursing Research - Principles and Methods, 7<sup>th</sup> ed., Lippincott Williams and Wilkins, USA, 2004.
8. Burns, N. and Grove, S. K., The Practice of Nursing Research - conduct, Critique and utilization, 2<sup>nd</sup> ed., W. B. Saunders Company, USA, 1993.
9. Treece E. W. & Treece J. W.: Elements of Research in Nursing St. Louis 1986.ss