

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**CURRICULUM & REGULATIONS**

**FOR**

**B.Sc. (Hons) Nursing**

**At Six New AIIMS**

**(Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur & Rishikesh)**

**2013**

**College of Nursing  
All India Institute of Medical Sciences**

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# Aim

*The aim of the undergraduate nursing program is to*

1. Prepare nursing graduates to assume responsibilities as professional competent nurses & midwives in providing promotive, preventive, curative & rehabilitative services.
2. Prepare nurses who can make independent decisions in nursing situations, protect the rights of & facilitate individuals & groups in pursuit of health, function in the hospital, community nursing services & conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor and manager in clinical / public health nursing.

# Objectives

*On completion of the four years B.Sc.(Hons) Nursing program the graduate will be able to:*

1. Apply knowledge from physical, biological & behavioural sciences, medicine including alternative systems & nursing in providing nursing care to individuals, families & communities.
2. Demonstrate understanding of life cycle & other factors which affect health of individual & groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individual & group
4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
5. Utilize the latest trends & technologies in providing health care.
6. Provide promotive, preventive & restorative health services in line with the national health policies & programmes.
7. Practice within framework of code of ethics & professional conduct & acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals & groups & members of the health team in order to promote affective interpersonal relationships & teamwork.
9. Demonstrate skills in teaching to individuals & groups in clinical/ community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership & managerial skills in clinical/ community health settings.
12. Conduct need based research studies in various settings & utilize the research findings to improve the quality of care.
13. Demonstrate awareness, interest & contribute towards advancement of self & of the profession.

## **Admission Requirements**

1. The minimum age for admission shall be 17 years on or before 31<sup>st</sup> December of the year of admission.
2. The minimum educational requirements shall be the passing of:  
Has passed the 12th class under the 10+2 scheme/Senior School Certificate Examination or Intermediate Science or an equivalent examination from a recognised University/ Board of any Indian State with English, Physics, Chemistry and Biology with 55% for Gen/OBC (50% in case of SCs/STs categories) in aggregate in English, Physics, Chemistry and Biology.
3. Candidate Shall be medically fit

## **Entrance / Selection test**

Selection of the candidates should be based on the merit of the entrance examination.

## **Duration**

- **B.Sc. (Hons) Nursing** course shall be four years including six months compulsory internship.

## **Distribution of Seats:**

- B. Sc. (Hons) Nursing = 60 seats

## **Medium of Instruction**

The medium of instruction shall be English only

## **Award of degree**

The degree of B.Sc. (Hons) Nursing will be awarded to the graduate only after the candidate has:

- Passed all examinations
- Satisfactorily completed the full period of training
- Satisfactory work and conduct during the period of studies

## **Academic session**

- 1<sup>st</sup> August to 31<sup>st</sup> July

## **Vacation**

The students shall be given vacation of total 6 weeks vacation in an academic session. The vacation will be divided in 2 weeks winter and 4 weeks summer vacations as per institutional annual academic calendar.

# B.Sc. (Hons) NURSING

## COURSE OF INSTRUCTION

### FIRST YEAR

Sr. No	Subject	Theory Hours	Practical / Clinical Hours	Other Hours
1.	Anatomy	60	10	
2.	Physiology	60	10	
3.	Nutrition	40	20	
4.	Biochemistry	30	10	
5.	Nursing Foundations	270	Lab: 200 & Clinical: 460	
6.	Psychology	60		
7.	Computers & Nursing Informatics	30	30	
8.	English	60		
9.	Hindi */Regional language	30		
10.	Library work/self study			50
11.	Co-curricular activities			50
	<b>Total hours</b>	<b>640</b>	<b>740</b>	<b>100</b>
	<b>Total hours=1480 hrs</b>			

\* Optional subject

### SECOND YEAR

Sr. No	Subject	Theory (In hours)	Practical / Clinical (In hours)	In hours
1.	Microbiology	45	15	
2.	Pharmacology	60		
3.	Pathology & Genetics	40+20		
4.	Medical Surgical Nursing – I	210	720	
5.	Community Health Nursing – I	90	135	
6.	Sociology	60		
7.	Library work/Self study			50
8.	Co-curricular activities			35
	<b>Total hours</b>	<b>525</b>	<b>870</b>	<b>85</b>
	<b>Total hours=1480 hrs</b>			

### THIRD YEAR

Sr. No	Subject	Theory (In hours)	Practical / Clinical (In hours)	In hours
1.	Medical Surgical Nursing – II	100	270	
2.	Child Health Nursing	90	270	
3.	Mental Health Nursing	90	270	
4.	Obstetrical & Gynecological Nursing including Midwifery	90	360	
5.	Library work/Self study			
6.	Co-curricular activities			
	<b>Total hours</b>	<b>370</b>	<b>1170</b>	
	<b>Total hours=1540 hrs</b>			

**FOURTH YEAR**

Sr. No	Subject	Theory (In hours)	Practical / Clinical (In hours)
1.	Communication & Educational Technology	60	30
2.	Community Health Nursing - II	90	135
3.	Nursing Research & Statistics	45	45 (a group research project)
4.	Nursing Management	60	30
	<b>Total hours</b>	<b>255</b>	<b>240</b>
	<b>Total hours= 495 hrs</b>		

- ❖ Students need to fulfill practical/ clinical experience requirements specified for each subject as per guidelines for B.Sc. (Hons) Nursing within the stipulated time period in a prescribed log book.

**SIX MONTHS COMPULSORY INTERNSHIP\* (Integrated Practice)**

Sr. No	Subject	Theory (In hours)	Practical / Clinical (In hours)	In Weeks
1.	Obstetrical & Gynecological Nursing including Midwifery		240	5
2.	Community Health Nursing		195	4
3.	Medical Surgical Nursing		430	9
4.	Child Health Nursing		145	3
5.	Mental Health Nursing		145	3
	<b>Total hours</b>		<b>1155</b>	<b>24</b>
	<b>Total hours = 1155 hrs</b>			

**\*INTERNSHIP**

- i. Six months compulsory internship starts after theory and practical training in five subjects of the fourth year of the course.
- ii. During internships students will be posted in all three shift duties and assume all the responsibilities of patient care in assigned area under the supervision of teacher/ faculty of the Department of Nursing/ College of Nursing.
- iii. Internship / Integrated practice is 8 hours of clinical duties **per day**.
- iv. Calculation of hours during internship to be done as 8 hours per day @ 48 hours per week.
- v. **Fourth year final examination to be held only after completing internship.**

**B.Sc. (Hons) NURSING**  
**SCHEME OF EXAMINATION**

**B.Sc. (Hons) Nursing First Year**

Paper no.	Subjects (Theory)	Duration Of Exam	Internal Assessment	Final Exam	Total
I	Anatomy & Physiology	3	25 (12 +13)	75 (37+38)	100
II	Nutrition & Biochemistry	3	25 (15+10)	75 (45+30)	100
III	Nursing Foundations	3	25	75	100
IV	Psychology	3	25	75	100
V	English	3	25	75	100
VI	Computers & Nursing Informatics	2	50		50
VII	Hindi/ Regional Language (Optional Subject)	2	50		50
<b>Practical examination with Viva Voce</b>					
I	Nursing Foundations		100	100	200
	<b>Total</b>		<b>325</b>	<b>475</b>	<b>800</b>

**B. Sc. (Hons) Nursing Second Year**

Paper no.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
VIII	Microbiology	3	25	75	100
IX	Pharmacology	3	25	75	100
X	Pathology & Genetics	3	25 (15+10)	75 (45+30)	100
XI	Medical Surgical Nursing – I	3	25	75	100
XII	Community Health Nursing – I	3	25	75	100
XIII	Sociology	3	25	75	100
<b>Practical examination with Viva Voce</b>					
II	Medical Surgical Nursing – I		100	100	200
	<b>Total</b>		<b>250</b>	<b>550</b>	<b>800</b>

**B.Sc. (Hons) Nursing Third Year**

Paper no.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
XIV	Medical Surgical Nursing – II	3	25	75	100
XV	Child Health Nursing	3	25	75	100
XVI	Mental Health Nursing	3	25	75	100
XVII	Obstetrical & Gynecological Nursing including Midwifery	3	25	75	100
<b>Practical examination with Viva Voce</b>					
III	Medical Surgical Nursing – II		50	50	100
IV	Child Health Nursing		50	50	100

V	Mental Health Nursing		50	50	100
VI	Obstetrical & Gynecological Nursing including Midwifery		50	50	100
	<b>Total</b>		<b>300</b>	<b>500</b>	<b>800</b>

### B. Sc. (Hons) Nursing Fourth Year

Paper no.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
XVIII	Communication & Educational Technology	3	25	75	100
XIX	Community Health Nursing – II	3	25	75	100
XX	Nursing Research & Statistics	3	25 (15+10)	75 (50+25)	100
XXI	Nursing Management	3	25	75	100
<b>Practical examination with Viva Voce</b>					
VII	Community Health Nursing-II		50	50	100
	<b>Total</b>		<b>225</b>	<b>475</b>	<b>500</b>

### Rules of examination:

1. The medium of examination shall be English
2. **Anatomy and Physiology:-** Question paper will consist of Section A (Anatomy) of 37 marks and Section B (Physiology) of 38 marks.
3. **Nutrition and Biochemistry:-** Question paper will consist of Section-A Nutrition of 45 marks and Section B of Biochemistry of 30 marks.
4. **Pathology and genetics:-** Question paper will consists of Section-A Pathology of 45 Marks and Section B of Genetics of 30 Marks.
5. **Nursing Research & Statistics:-** Nursing Research should be of 50 marks and Statistics of 25 marks.
6. Theory & Practical exams for Computer & Nursing Informatics and Hindi to be conducted as college exam and marks to be sent to the Dean (Examination)/ Examination Controller, AIIMS for inclusion in the Detail Marks Sheet.
7. Minimum pass marks shall be 50% in each of the theory and practical papers separately but for English minimum pass marks shall be 40%.
8. A candidate must have minimum 80% attendance in theory and 90% in practical (irrespective of the kind of absence) for appearing in examination. However, in extreme circumstances beyond the control of the candidate 5% waive off of attendance may be done by Principal/ HOD Nursing.
9. A candidate must have 100% attendance in each of the practical areas before award of Degree.

10. A candidate has to pass in theory and practical exam separately in both internal and external of each paper.
11. If a candidate fails in the subject (either theory or practical) has to appear in the examination for both theory and practical paper of that subject.
12. If a candidate fails in any subject, maximum three attempts (including first attempt) are permitted for each subject.
13. Provision of supplementary examinations should be made once in a year in between the session.
14. A candidate, who fails in up to two papers, shall be admitted provisionally in the next year but she has to clear those papers in next two subsequent examinations. If the candidate taking supplementary examination along with next year examination her result of next class will be declared only if she passes previous examination. Incase if she fails to clear supplementary examination in two subsequent attempts she would deemed to have failed.
15. If any candidate who could not pass all the subjects in 3 chances, including the regular chance their result shall be declared as failed and she has to appear in all the subjects of that year in the subsequent annul examination.
16. A candidate failing in more than two subjects will not be promoted to the next year and she has to appear in all the subjects of that year in subsequent annul examination without attending the regular course of instruction. However, if candidate wish re-attend the course of instruction of that year; she may avail this opportunity by paying the prescribed fee of that year. Furthermore, candidate may have a provision to improve the internal assessment marks of that year.
17. The maximum period to complete the course successfully should not exceed eight years.
18. An examiner should be an Assistant Professor or above position in a College of Nursing with M.Sc. Nursing qualification in respective subject and minimum of 3 years of teaching experience after obtaining postgraduate nursing qualification at Collegiate/ University level.
19. Maximum number of candidates for all practical examination should not exceed 30 per day.
20. All practical examinations must be held in the respective clinical areas.
21. Internal and External Examiner should jointly conduct practical examination of each student.

22. Grace marks and re-evaluation is not permitted in any subject. However, rechecking of the papers may be allowed if a candidate desires.
23. Declaration of class shall done as follows:
- a. A successful candidate obtaining 75% and more marks in the grand total aggregate in the first attempt shall be declared to have passed with **Distinction**.
  - b. A successful candidate obtaining 60% and more but less then 75% of marks in the grand total aggregate shall be declared to have passed with **First Class**.
  - c. A successful candidate obtaining 50% and more marks but less than 60% of marks in the grand total aggregate shall be declared pass with **Pass Class**.
  - d. Rank shall be declared on the basis of the aggregate marks obtained by a candidate in the Annual Examination subjects of the course. Only those candidates who have passed all the subjects in all examination in the first attempt shall the eligible for the award of **Rank**.
2. Meritorious candidates will be awarded medals as per Institute Policy.

# **B.Sc. (Hons) NURSING 1<sup>st</sup> YEAR**

# ANATOMY & PHYSIOLOGY

Placement- First year

Time: Theory- 60 + 60 Hours  
Practical-10 + 10 Hour

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
I	Anatomy & Physiology	25	75	100

The questions of both the subjects i.e. Anatomy & Physiology will be on the same question paper Titled Paper: I Anatomy & Physiology and demarked as Section – A & Section – B and to be answered on separate answer books.

## Section – A: Anatomy

Placement: First year

Time: Theory – 60 Hrs  
Practical- 10 Hrs

**Scheme of examination (Theory / Written)**

Paper	Subject	Duration	Maximum Marks (Final Exam)
I Section – A	Anatomy	1 ½ hours	37

**Question paper pattern**

Essay type question: 1 x 7 = 7 Marks
Short Notes : 4 x 5 = 20 Marks
MCQs : 10 x 1 = 10 Marks

**Note:**

Section –A -Anatomy of Paper - I will be set and evaluated by the subject expert only. i.e. an examiner with post graduate degree in Anatomy with a minimum 3 years of collegiate/ university level teaching experience.

**Course Description:** The course is designed to enable students to acquire knowledge of the normal structure of various human body systems & understand the alterations in anatomical structures in disease & practice of nursing.

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Introduce the subjects, sub-divisions &amp; descriptive terms used in Anatomy.</li> </ul>	<b>Introduction to Anatomy</b> <ul style="list-style-type: none"> <li>• Subjects of Anatomy</li> <li>• Main subdivisions of Anatomy</li> <li>• Commonly used descriptive terms</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using microscopic slides, skeleton, torso and other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>II</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Describe the anatomical terms, organization</li> </ul>	<b>Introduction to Anatomical terms organization of the human body</b> <ul style="list-style-type: none"> <li>• Human Cell structure.</li> <li>• Tissues – Definition, Types,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using microscopic slides,</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		of human body and structure of cell, tissues, membranes and glands.	characteristics, classification, location, functions and formation. <ul style="list-style-type: none"> <li>• Membranes and glands – classification and structure</li> </ul> Alterations in disease Applications and implications in nursing	skeleton, torso and A.V. Aids. <ul style="list-style-type: none"> <li>• Demonstrate cells, types of tissues membranes and glands.</li> <li>• Record book.</li> </ul>	answer questions
<b>III</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe the structure and function of bones and joints.</li> </ul>	<b>The Skeletal System</b> <ul style="list-style-type: none"> <li>• Bones- types, structure, Axial &amp; Appendicular Skeleton</li> <li>• Bone formation and growth</li> <li>• Description of bones</li> <li>• Joints – classification and structure</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, skeleton, loose bones &amp; joints.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>IV</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Describe the structure and function of muscles.</li> </ul>	<b>The Muscular System</b> <ul style="list-style-type: none"> <li>• Types and structure of muscles</li> <li>• Muscles groups</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using models, films &amp; other A.V. aids.</li> <li>• Demonstrate</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>V</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe the structure and function of nervous system.</li> </ul>	<b>The Nervous System</b> <ul style="list-style-type: none"> <li>• Structure of neuroglia &amp; neurons</li> <li>• Somatic Nervous system <ul style="list-style-type: none"> <li>○ Structure of brain, spinal chord, cranial nerves, spinal nerves and peripheral nerves</li> </ul> </li> <li>• Autonomic Nervous System – Sympathetic and parasympathetic <ul style="list-style-type: none"> <li>○ Structure and location</li> </ul> </li> </ul> Alterations in disease Applications & implications in nursing	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens &amp; other A. V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>VI</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Describe the structure and function of sensory organs.</li> </ul>	<b>The Sensory Organs</b> <ul style="list-style-type: none"> <li>• Structure of skin, eye, ear, nose and tongue, (Auditory and olfactory apparatus)</li> </ul> Alterations in diseases Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions &amp; objective type</li> </ul>
<b>VII</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe the structure and function of circulatory and lymphatic system.</li> </ul>	<b>Circulatory and lymphatic system</b> <ul style="list-style-type: none"> <li>• The Circulatory system <ul style="list-style-type: none"> <li>○ Blood – Microscopic structure</li> <li>○ Structure of Heart</li> <li>○ Structure of blood vessels – Arterial &amp; Venous System,</li> <li>○ Circulation: systemic, pulmonary</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>and coronary</li> <li>• Lymphatic system               <ul style="list-style-type: none"> <li>○ Lymphatic vessels &amp; lymph</li> <li>○ Lymphatic tissues</li> <li>○ Thymus gland</li> <li>○ Lymph nodes</li> <li>○ Spleen</li> <li>○ Lymphatic nodules</li> </ul> </li> </ul> <p>Alterations in disease Applications and implications in nursing</p>		
VIII	5	<ul style="list-style-type: none"> <li>• Describe the structure and function of respiratory system.</li> </ul>	<p><b>The Respiratory System</b></p> <ul style="list-style-type: none"> <li>• Structure of the organs of respiration</li> <li>• Muscles of respiration: Intercostal and Diaphragm</li> </ul> <p>Alterations in diseases Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens, torso &amp; other A.V. aids</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
IX	5	<ul style="list-style-type: none"> <li>• Describe the structure and function of digestive system.</li> </ul>	<p><b>The Digestive system</b></p> <ul style="list-style-type: none"> <li>• Structure of alimentary tract and accessory organs of digestion</li> </ul> <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens, torso &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
X	4	<ul style="list-style-type: none"> <li>• Describe the structure and function of excretory system.</li> </ul>	<p><b>The Excretory System (Urinary)</b></p> <ul style="list-style-type: none"> <li>• Structure of organs of urinary system: Kidneys, ureters, urinary bladder, urethra</li> </ul> <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using charts, models, slides, specimens, torso &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
XI	4	<ul style="list-style-type: none"> <li>• Describe the structure and function of endocrine system</li> </ul>	<p><b>The Endocrine system</b></p> <ul style="list-style-type: none"> <li>• Structure of Pituitary, pancreas, thyroid, parathyroid, thymus and adrenal glands</li> </ul> <p>Alterations in diseases Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimens, torso &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
XII	4	<ul style="list-style-type: none"> <li>• Describe the structure and function of Reproductive system.</li> </ul>	<p><b>The Reproductive system including breast</b></p> <ul style="list-style-type: none"> <li>• Structure of female reproductive organs</li> <li>• Structure of male reproductive organs</li> <li>• Structure of breast</li> <li>• <u>Introduction to embryology</u></li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using charts, models, slides, specimens, torso &amp; other A.V. aids.</li> <li>• Record book.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			Alterations in diseases Applications and implications in nursing		
XIII	3	<ul style="list-style-type: none"> <li>Describe the structure and function of Integumentary system</li> </ul>	<p><b><u>The Integumentary system:</u></b></p> <ul style="list-style-type: none"> <li>Structure of skin: Epidermis, Dermis</li> <li>Appendages of the skin <ul style="list-style-type: none"> <li>Hair</li> <li>Nails</li> <li>Sebaceous &amp; Sweat glands</li> <li>Arrector pili muscles</li> </ul> </li> </ul> <p>Alterations in diseases Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, models, slides, specimens &amp; other A.V. aids.</li> <li>Record book.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

### **Lab Practical**

- Observe/visit Anatomy Lab/Dissected Cadaver.
- Observe slides/ Microscopic structure of cells & tissues.
- Observe various systems on dissected cadaver. (Heart, Lungs, Brain, GI system, Kidney etc)
- Observe various preserved organs.
- Observe skeletal parts and muscles.
- Know the preparation & use of preservation solution.
- Maintain record book for all observations and visit.

## Section – B: Physiology

Placement: First year

Time: Theory - 60 hrs

Practical-10 hrs

### Scheme of examination (Theory/Written)

Paper No	Subject	Duration	Maximum Marks (Final Exam)
I Section- B	Physiology	1 ½ hours	38

### Question paper pattern

Essay type question: 1 x 8 = 8 Marks
Short Notes : 4 x 5 = 20 Marks
MCQs : 10 x 1 = 10 Marks

### Note:

Section –B -Physiology of paper - I will be set and evaluated by the subject expert only. i.e. an examiner with post graduate degree in Physiology with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** The course is designed to assist the students to acquire knowledge of the normal physiology of various human body systems & understand the alterations in physiology of diseases & practice of nursing.

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Describe the physiology of cell, tissues, membranes &amp; glands</li> </ul>	<b>Cell Physiology</b> <ul style="list-style-type: none"> <li>• Tissue- formation and repair</li> <li>• Membranes &amp; glands – Functions</li> </ul> Alterations in diseases Applications and implications in nursing (Applied physiology )	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>II</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Describe the bone formation &amp; growth and movements of skeletal system.</li> </ul>	<b>Skeletal System</b> <ul style="list-style-type: none"> <li>• Bone formation &amp; growth</li> <li>• Bones – Functions and movements of bones of axial and appendicular skeleton and bone healing</li> <li>• Joints and joint movement</li> </ul> Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, films &amp; other A.V. aids.</li> <li>• Demonstration of joint movements.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>III</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Describe the muscle movements and tone and demonstrate muscle contraction &amp; tone.</li> </ul>	<b>Muscular System</b> <ul style="list-style-type: none"> <li>• Muscular movements, Muscle tone, physiology of muscle contraction, levels and maintenance of posture</li> </ul> Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, models, slides, specimen, films &amp; other A.V. aids.</li> <li>• Demonstration of</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
				muscle movements, tone & contraction.	
IV	12	<ul style="list-style-type: none"> <li>Describe the physiology of nerve stimulus, reflexes, brain, cranial &amp; spinal nerves.</li> <li>Describe the physiology of Endocrine glands.</li> <li>Demonstrate reflex action &amp; stimulus.</li> </ul>	<p><b>Control System</b></p> <p><b>A. Nervous System</b></p> <ul style="list-style-type: none"> <li>Functions of Neuroglia &amp; neurons</li> <li>Stimulus &amp; nerve- impulse-definitions and mechanism</li> <li>Functions of brain, spinal cord, cranial and spinal nerves</li> <li>Cerebrospinal fluid- composition, circulation and function</li> <li>Reflex arc, Reflex action and reflexes</li> <li>Autonomic functions – <ul style="list-style-type: none"> <li>Pain: somatic, visceral &amp; referred</li> <li>Autonomic learning and biofeedback</li> </ul> </li> <li>Thermoregulation- Maintaining body temperature Alterations in diseases Application and implications in nursing (Applied physiology)</li> </ul> <p><b>B. The Endocrine System</b></p> <ul style="list-style-type: none"> <li>Functions of Pituitary, pineal body, thymus, Thyroid, Parathyroid, Pancreas, Suprarenal, Placenta, ovaries &amp; Testes</li> </ul> <p>Alterations in disease Applications and implications in nursing (Applied physiology)</p>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, models, films &amp; other A.V. aids.</li> <li>Demonstrate nerve stimulus, reflex action &amp; reflexes, BMR.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
V	8	<ul style="list-style-type: none"> <li>Describe the physiology of blood &amp; functions of heart.</li> <li>Demonstrate blood cell count, coagulation, grouping, Hb, B.P. Pulse monitoring.</li> </ul>	<p><b>Blood &amp; Circulatory System</b></p> <ul style="list-style-type: none"> <li>Blood formation, composition, blood groups, blood coagulation</li> <li>Haemoglobin: Structure, Synthesis and breakdown, Variation of molecules, estimation</li> <li>Functions of Heart, Conduction, Cardiac cycle circulation – Principles, Control, factors influencing BP and pulse.</li> </ul> <p>Normal ECG Alterations in diseases</p>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, films &amp; A.V. aids.</li> <li>Demonstration of blood cell count, coagulation grouping, Hb. Estimation, Heart conduction system.</li> <li>Measurement of pulse &amp; BP.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> <li>• Identification of normal ECG pattern</li> </ul>	
<b>VI</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe the physiology and mechanism of respiration.</li> <li>• Demonstrates spirometry.</li> </ul>	<p><b>The Respiratory System</b></p> <ul style="list-style-type: none"> <li>• Functions of respiratory organs</li> <li>• Physiology of respiration</li> <li>• Pulmonary ventilation, Volume</li> <li>• Mechanism of respiration</li> <li>• Gaseous exchange in lungs</li> <li>• Carriage of oxygen &amp; carbon-dioxide</li> <li>• Exchange of gases in tissues</li> <li>• Regulation of respiration.</li> <li>• Vocal communication <ul style="list-style-type: none"> <li>○ Mechanism of sound production</li> <li>○ Neural control of sound production</li> <li>○ Speaking</li> <li>○ Dysarthria</li> </ul> </li> </ul> <p>Alterations in disease Applications and implications in nursing (Applied physiology)</p>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, films &amp; other A.V. aids.</li> <li>• Demonstration of spirometry.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>VII</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe the physiology of Digestive system.</li> <li>• Demonstrates BMR.</li> </ul>	<p><b>The Digestive System</b></p> <ul style="list-style-type: none"> <li>• Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestine, Large intestine, Absorption of food. Functions of liver, gall bladder and pancreas</li> <li>• Metabolism of carbohydrates, proteins and fats</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, films &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>VIII</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Describe the physiology of excretory system.</li> </ul>	<p><b>The Excretory System</b></p> <ul style="list-style-type: none"> <li>• Functions of Kidneys, ureters, urinary bladder &amp; urethra</li> <li>• Composition of urine</li> <li>• Mechanism of urine formation</li> <li>• Function of skin</li> <li>• Regulation of body temperature</li> <li>• Fluid and electrolyte balance.</li> </ul> <p>Alterations in disease Applications and implications in nursing (Applied physiology)</p>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Explain using charts, films &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
IX	4	<ul style="list-style-type: none"> <li>Describe the physiology of sensory organs.</li> </ul>	<b>The Sensory Organs</b> <ul style="list-style-type: none"> <li>Functions of skin, eye, ear, nose, tongue,</li> </ul> Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, films &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
X	5	<ul style="list-style-type: none"> <li>Describe the physiology of male &amp; female reproductive system.</li> </ul>	<b>The Reproductive System</b> <ul style="list-style-type: none"> <li>Reproduction of cells – DNA, Mitosis, meiosis spermatogenesis, oogenesis.</li> <li>Functions of female reproductive organs; functions of breast, Female sexual cycle.</li> <li>Functions of male reproductive organs, Male function in reproduction, Male fertility system,</li> </ul> Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, films, models, specimens &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
XI	2	<ul style="list-style-type: none"> <li>Describe the physiology of neural, lymphatic &amp; immunological system.</li> </ul>	<b>Defense: Neural, Lymphatic and Immunological</b> <ul style="list-style-type: none"> <li>Neural</li> <li>Circulation of lymph</li> <li>Immunity               <ul style="list-style-type: none"> <li>Formation of T- cells and B cells</li> <li>Types of Immune response</li> <li>Antigens</li> <li>Cytokines</li> <li>Antibodies</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Explain using charts, films &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

### **Lab Practical**

- Demonstrate various movements of joints & muscles
- Demonstrate nerve reflexes & stimulus.
- Demonstrate/serological test following:
  - Blood cell count
  - Coagulation
  - Grouping
  - Hb estimation
- Demonstrate Pulse, BP, spirometry and BMR.
- Maintain Record book.

## NUTRITION & BIOCHEMISTRY

Placement: First year

Time: 60+40 hrs

Paper No	Subject	Duration	Internal Assessment	Final Exam	Total Marks
II	Nutrition & Biochemistry	3 hrs	25	75	100

The questions of both the subjects i.e. Nutrition & Biochemistry will be on the same question paper and demarked Section – A & Section – B and to be answered on separate answer books

### Section – A: Nutrition

Placement: First year

Time: Theory – 40 Hrs

Practical-20 Hrs

#### Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
II Section: A	Nutrition	1½ hrs	45

#### Question paper pattern

Essay type question:	1 x 10 = 10 Marks
Short Notes	: 7 x 5 = 35 Marks
MCQs	: 10 x 1 = 10 Marks

#### Note:

Section –A -Nutrition of paper - II will be set and evaluated by the subject expert only. i.e. an examiner with post graduate degree in Nutrition / dietetics with a minimum 3 years of collegiate/ University level teaching experience.

**Course Description:** The course is designed to assist the students to acquire knowledge of nutrition for maintenance of optimum health at different stages of life & its application in practice of nursing.

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	8		<ul style="list-style-type: none"> <li>• Describe the relationship between nutrition &amp; Health.</li> <li>• Describe the role of nurse in assessment of nutritional status &amp; nutrition education.</li> </ul>	<b>Introduction To Food &amp; Nutrition</b> <ul style="list-style-type: none"> <li>• <b>Nutrition: History &amp; Concepts</b></li> <li>• Classification of food, food groups</li> <li>• Role of nutrition in maintaining health,</li> <li>• Factors affecting food and nutrition: socio- economic, cultural, tradition, production, system of distribution, life style and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explaining using charts, film shows.</li> <li>• Panel Discussion.</li> <li>• Exercise</li> <li>• Demonstration of Assessment of nutritional status.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<p>food habits etc</p> <ul style="list-style-type: none"> <li>• <b>Role of food &amp; its medicinal value</b></li> <li>• Classification of foods</li> <li>• <b>Food standards</b></li> <li>• Elements of nutrition: macro and micro</li> <li>• <b>Calorie, BMR</b></li> <li>• <b>Assessment of nutritional status</b></li> <li>• National nutritional problems</li> <li>○ National nutrition programmes <ul style="list-style-type: none"> <li>• Vitamin A deficiency programme</li> <li>• National iodine deficiency disorders (IDD) programme</li> <li>• Mid – day meal programme</li> <li>• Integrated child development scheme (ICDS)</li> <li>• National &amp; International Agencies <b>Working towards food / nutrition</b> – NIPCCD, CARE, FAO, NIN &amp; CFTRI(<b>Central food technology &amp; research Institute</b>)</li> </ul> </li> <li>• Role of nurse in nutrition education</li> </ul>		
<b>II</b>	<b>2</b>		<ul style="list-style-type: none"> <li>• Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates</li> </ul>	<p><b>Carbohydrates</b></p> <ul style="list-style-type: none"> <li>• Classification &amp; Caloric value</li> <li>• Recommended daily allowances</li> <li>• Dietary sources &amp; Functions</li> <li>• Digestion, absorption and storage, metabolism of carbohydrates</li> <li>• Malnutrition: Deficiencies</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explaining using charts.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
III	2		<ul style="list-style-type: none"> <li>Describe the classification, functions, sources and recommended daily allowances (RDA) of fats.</li> </ul>	<b>Fats</b> <ul style="list-style-type: none"> <li>Classification</li> <li>Caloric value</li> <li>Recommended daily allowances</li> <li>Dietary sources</li> <li>Functions</li> <li>Digestion, absorption and storage metabolism</li> <li>Malnutrition: Deficiencies and over consumption</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explaining using charts.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
IV	2		<ul style="list-style-type: none"> <li>Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates</li> </ul>	<b>Proteins</b> <ul style="list-style-type: none"> <li>Classification</li> <li>Caloric value</li> <li>Recommended daily allowances</li> <li>Dietary sources</li> <li>Functions</li> <li>Digestion, absorption, metabolism and storage</li> <li>Malnutrition: Deficiencies and Over consumption</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explaining using charts.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
V	4		<ul style="list-style-type: none"> <li>Describe the classification, functions, sources and recommended daily allowances (RDA) of vitamins</li> </ul>	<b>Vitamins</b> <ul style="list-style-type: none"> <li>Classification</li> <li>Recommended daily allowances</li> <li>Dietary sources</li> <li>Functions</li> <li>Absorption, synthesis, metabolism storage and excretion</li> <li>Deficiencies</li> <li>Hypervitaminosis</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explaining using charts.</li> <li>Assignment on comprehensive table for RDA deficiencies and over nutrition.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
VI	4		<ul style="list-style-type: none"> <li>Describe the classification, functions, sources and recommended daily allowances (RDA) of minerals</li> </ul>	<b>Minerals</b> <ul style="list-style-type: none"> <li>Classification</li> <li>Recommended daily allowances</li> <li>Dietary sources</li> <li>Functions</li> <li>Absorption, synthesis, metabolism storage and excretion</li> <li>Deficiencies</li> <li>Over consumption and toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explaining using charts.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
VII	3		<ul style="list-style-type: none"> <li>Describe the</li> </ul>	<b>Water &amp; Electrolytes</b>	<ul style="list-style-type: none"> <li>Lecture</li> </ul>	<ul style="list-style-type: none"> <li>Short</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
			sources, functions & requirements Water & Electrolytes.	<ul style="list-style-type: none"> <li>Water: Daily requirement, regulation of water metabolism and distribution of body water</li> <li>Electrolytes: Types, sources, composition of body fluids</li> <li>Maintenance of fluid &amp; electrolyte balance</li> <li>Over hydration, dehydration and water intoxication</li> <li>Electrolyte imbalances</li> </ul>	<p>discussion</p> <ul style="list-style-type: none"> <li>Explaining using charts.</li> </ul>	<p>answer questions</p> <ul style="list-style-type: none"> <li>Objective type</li> </ul>
VIII	5	15	<ul style="list-style-type: none"> <li>Describe the Cookery rules &amp; preservation of nutrients</li> </ul>	<p><b>Cookery rules &amp; preservation of nutrients</b></p> <ul style="list-style-type: none"> <li>Principles, methods of cooking and serving.</li> <li>Preservation of nutrients during cooking</li> <li><b>Safe food handling-toxicity</b></li> <li><b>Storage of food</b></li> <li>Food Preservation, Food Additives &amp; its principles</li> <li>Food Adulteration , PFA (<b>prevention of PFA</b>) Food Standards</li> <li><b>Preparation of simple beverages &amp; different types of food</b></li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Demonstration.</li> <li>Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> <li>Assessment of Practice Sessions.</li> </ul>
IX	7	5	<ul style="list-style-type: none"> <li>Describe and plan balanced diet for different categories of people</li> </ul>	<p><b>Normal Nutrition/ Balanced diet</b></p> <ul style="list-style-type: none"> <li>Elements</li> <li>Recommended dietary allowances</li> <li>Nutritive value of food</li> <li>Nutrition during Adulthood</li> <li>Nutrition during Pregnancy and Lactation</li> <li>Nutrition during Infancy</li> <li>Nutrition during Childhood and Adolescence</li> <li>Nutrition during Elderly</li> <li>Calculation of <b>balanced</b> diets for the above mentioned groups</li> <li>Planning menu</li> <li>Budgeting of food</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Explaining using charts.</li> <li>Practice Session</li> <li>Meal Planning</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> <li>Exercise on Menu Planning</li> </ul>
X	5		<ul style="list-style-type: none"> <li>Describe and</li> </ul>	<b>Therapeutic Nutrition</b>	<ul style="list-style-type: none"> <li>Lecture</li> </ul>	<ul style="list-style-type: none"> <li>Short</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
			plan therapeutic diet	<ul style="list-style-type: none"> <li>• Naturopathy: Diet</li> <li>• Therapeutic modification of the Normal diet</li> <li>• Planning and Preparation of hospital diets</li> <li>• Nutrition and Weight Management</li> <li>• Nutrition during diseases of-liver, Cardiovascular, Diabetes Mellitus, Renal Disease, Gastro-Intestinal Disease.</li> <li>• Drug and nutrient interaction</li> </ul>	<p>discussion</p> <ul style="list-style-type: none"> <li>• Explaining using charts.</li> <li>• Therapeutic meal planning and demonstration of therapeutic diets.</li> </ul>	<p>answer questions</p> <ul style="list-style-type: none"> <li>• Objective type</li> </ul>

**Lab Practical:**

- Calculation of BMR.
- Demonstration of food handling.
- Plan & preparation of diets for different categories of persons.
- Preparation of therapeutic diet.
- Maintain a record book.

**Section – B: Biochemistry**

**Placement: First Year**

**Time: Theory - 30 hrs  
Practical- 10 hrs**

**Scheme of examination (Theory/Written)**

Paper No	Subject	Duration	(Max. Marks) Final Exam
II Section: B	Biochemistry	1½ hrs	30

**Question paper pattern**

Essay type question: 1 x 7 = 7 Marks
Short Notes : 3 x 5 = 15 Marks
MCQs : 8 x 1 = 8 Marks

**Note:**

Section –B -Biochemistry of paper - II will be set and evaluated by the subject expert only. i.e. an examiner with post graduate degree in Medical/Clinical Biochemistry with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** The course is designed to assist the students to acquire knowledge of the normal biochemical composition & functioning of human body & understand the alterations in biochemistry in diseases in practice of nursing.

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>3</b>	<ul style="list-style-type: none"> <li>Describe the structure composition &amp; function of cell.</li> <li>Differentiate between prokaryote &amp; Eukaryote cell.</li> <li>Identify techniques of microscopy</li> </ul>	<b>Introduction</b> <ul style="list-style-type: none"> <li>Definition and significance in nursing</li> <li>As Basic science for the study of medicine</li> <li>Review of structure, composition and functions of cell</li> <li>Functions of chief intracellular components</li> <li>Prokaryote and Eukaryote cell organization</li> <li>Microscopy</li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion using charts and slides.</li> <li>Demonstrate use of microscope.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
<b>II</b>	<b>6</b>	<ul style="list-style-type: none"> <li>Describe the structure &amp; functions of cell membrane.</li> </ul>	<b>Structure and functions of Cell membrane</b> <ul style="list-style-type: none"> <li>Fluid mosaic model tight junction, Cytoskeleton</li> <li>Transport mechanism: diffusion, osmosis, filtration, active, channel and sodium pump</li> <li>Acid base balance- maintenance &amp; diagnostic tests                             <ul style="list-style-type: none"> <li>PH buffers</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>
<b>III</b>	<b>6</b>	<ul style="list-style-type: none"> <li>Explain the metabolism of carbohydrates.</li> </ul>	<b>Composition and metabolism of carbohydrates</b> <ul style="list-style-type: none"> <li>General Nature</li> <li>Classification</li> <li>Biological Importance</li> <li>Types, structure, composition and uses                             <ul style="list-style-type: none"> <li>Monosaccharides,</li> <li>Disaccharides, Polysaccharides,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture discussion</li> <li>Demonstration of blood glucose monitoring.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective type</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p style="text-align: center;">Oligosaccharides</p> <ul style="list-style-type: none"> <li>• Metabolism <ul style="list-style-type: none"> <li>○ Pathways of glucose: <ul style="list-style-type: none"> <li>- Glycolysis</li> <li>- Gluconeogenesis: Cori's cycle, Tricarboxylic acid (TCA) cycle</li> <li>- Glycogenolysis</li> <li>- Pentose phosphate Pathways (Hexose mono phosphate)</li> </ul> </li> <li>○ Regulation of blood glucose level</li> <li>○ Glycogen synthesis &amp; breakdown ,</li> <li>○ Sources &amp; fate of glucose in body-Phosphorylation, Glycolysis,</li> <li>○ Fate of pyruvic acid, Citric acid cycle</li> <li>○ Energy Metabolism of other hexoses,</li> <li>○ HMP shunt &amp; its biological significance</li> <li>○ Blood glucose –Normal level &amp; regulations,</li> <li>○ Glycosuria</li> </ul> </li> <li>• Digestion &amp; Absorption of Carbohydrates</li> </ul> <p style="text-align: center;">Investigations and their interpretations</p>		
IV	4	<ul style="list-style-type: none"> <li>• Explain the metabolism of lipids.</li> </ul>	<p><b>Composition and metabolism of Lipids</b></p> <ul style="list-style-type: none"> <li>• General Nature</li> <li>• Classification</li> <li>• Biological Importance</li> <li>• Types, structure, composition and uses of fatty acids <ul style="list-style-type: none"> <li>○ Nomenclature, Roles and prostaglandins</li> </ul> </li> <li>• Metabolism of fatty acid <ul style="list-style-type: none"> <li>○ Breakdown</li> <li>○ Synthesis</li> </ul> </li> <li>• Metabolism of triacylglycerols</li> <li>• Digestion &amp; Absorption of Lipids</li> <li>• Cholesterol metabolism <ul style="list-style-type: none"> <li>○ Biosynthesis and its regulation <ul style="list-style-type: none"> <li>- Bile salts and bilirubin</li> <li>- Vitamin D</li> <li>- Steroid hormones</li> </ul> </li> </ul> </li> <li>• Lipoproteins and their functions:</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion using charts.</li> <li>• Demonstration of laboratory test.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ VLDLs – IDLs, LDLs and HDLs</li> <li>○ Transport of lipids</li> <li>○ Atherosclerosis</li> <li>○ Investigations and their interpretations</li> <li>● Metabolism of Lipids <ul style="list-style-type: none"> <li>○ Plasma lipids</li> <li>○ Fate of fat after absorption</li> <li>○ Sources of fat depot,</li> <li>○ Relation of liver to fat metabolism,</li> <li>○ Fatty liver-Lipotropic factors</li> <li>○ Ketone bodies-Formation &amp; utilization,</li> <li>○ Cholesterol-Sources ,Occurrence &amp; distribution ,Blood Level &amp; Metabolism</li> </ul> </li> </ul>		
V	6	<ul style="list-style-type: none"> <li>● Explain the metabolism of amino acids and proteins.</li> </ul>	<p><b>Composition and metabolism of Amino acids and proteins</b></p> <ul style="list-style-type: none"> <li>● General Nature</li> <li>● Classification</li> <li>● Biological Importance</li> <li>● Physical Properties –as colloids</li> <li>● Properties due to charge &amp; due to size.- Tests for identification, Protein precipitants , Denaturation.</li> <li>● Types, structure, composition and uses of Amino acids and proteins</li> <li>● Metabolism of aminoacids and proteins <ul style="list-style-type: none"> <li>○ Protein synthesis, targeting and glycosylation</li> <li>○ Chromatography</li> <li>○ Electrophoresis</li> <li>○ Sequencing</li> <li>○ Amino acid Pool, Amino acid hormones,</li> <li>○ Dynamic equilibrium &amp; balance</li> <li>○ Essential amino acids,</li> <li>○ Deamination, Transamination, &amp; glutamine formation.</li> </ul> </li> <li>● Metabolism of Nitrogen <ul style="list-style-type: none"> <li>○ Fixation and assimilation</li> <li>○ Urea cycle</li> <li>○ Hemes and chlorophylls</li> <li>○ Urea formation</li> </ul> </li> <li>● Digestion &amp; Absorption of Proteins</li> <li>● Enzymes and co-enzymes</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture discussion using charts</li> <li>● Demonstration of laboratory tests.</li> </ul>	<ul style="list-style-type: none"> <li>● Short answer questions</li> <li>● Objective type</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Classification</li> <li>○ Properties</li> <li>○ Kinetics and inhibition</li> <li>○ Control</li> <li>○ Mechanism of action</li> <li>○ Enzyme inhibition</li> <li>○ Coenzymes, Isoenzymes</li> <li>○ Diagnostic significance</li> <li>• Chemistry of Nucleic acid <ul style="list-style-type: none"> <li>▪ Purines &amp; Pyrimidine bases</li> <li>▪ Nucleotides &amp; Nucleosides</li> <li>▪ Nucleic Acids-DNA &amp; RNAs</li> <li>▪ Biological significance</li> </ul> </li> </ul> <p>Investigations and their interpretations</p>		
VI	2	<ul style="list-style-type: none"> <li>• Describe types, composition &amp; utilization of Vitamins &amp; minerals..</li> </ul>	<p><b>Composition of Vitamins and Minerals</b></p> <ul style="list-style-type: none"> <li>• Vitamins and minerals: <ul style="list-style-type: none"> <li>○ Structure</li> <li>○ Classification <ul style="list-style-type: none"> <li>▪ Fat soluble vitamins</li> <li>▪ Water soluble vitamins</li> </ul> </li> <li>○ Properties</li> <li>○ Absorption</li> <li>○ Storage &amp; transportation</li> <li>○ Normal concentration</li> </ul> </li> <li>• Metabolism of minerals <ul style="list-style-type: none"> <li>○ Metabolism of sodium, Potassium, Calcium &amp; Phosphorus, Iron.</li> </ul> </li> <li>• Water &amp; Electrolytic balance &amp; Imbalance</li> <li>• Acid-base balance &amp; Imbalance</li> </ul> <p>Investigations and their interpretations</p>	<ul style="list-style-type: none"> <li>• Lecture discussion using charts.</li> <li>• Demonstration of laboratory tests.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
VII	3	<ul style="list-style-type: none"> <li>• Describe immunochemistry.</li> </ul>	<p><b>Immunochemistry</b></p> <ul style="list-style-type: none"> <li>• Immune response</li> <li>• Structure and classification of Immunoglobins</li> <li>• Mechanism of antibody production</li> <li>• Antigens: HLA typing</li> <li>• Free radical and Antioxidants</li> <li>• Specialized protein: Collagen, Elastin, Keratin, Myosin, Lens protein.</li> <li>• Electrophoretic and Quantitative determination of Immunoglobins – ELISA etc.</li> </ul> <p>Investigations and their interpretations</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration of laboratory tests.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

**Lab Practical:**

- Observe the microscopic properties of cells.

- Demonstration of various serological tests.
  - Blood Glucose
  - proteins
  - Lipids.
- Demonstration of various lab investigations
  - LFT
  - Electrolytes
  - Renal Function test (Urea Creatinine)
  - ELISA
  - HLA Typing
  - Collection, handling and transportation of specimens.

# NURSING FOUNDATIONS

Placement: First year

Time: Theory - 270 hrs  
Practical - 650 hrs  
(200 Lab & 450 Clinical)

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
III	Nursing Foundations	25	75	100

### Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks Final Exam
III	Nursing Foundations	3 Hours	75

### Question paper pattern

Essay Type Question	: 3 x 10 = 30 Marks
Short Notes	: 5 x 5 = 25 Marks
MCQs	: 20 x 1 = 20 Marks

### Note:

An examiner / paper setter in the subject of Paper – III Nursing Foundations need to be M.Sc. Nursing in any nursing specialty subject with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** This course is designed to help the students to develop an understanding of the philosophy, objectives, theories & process of nursing in various supervised clinical settings. It is aimed at helping the students to acquire knowledge, understanding & skills in techniques of nursing & practice them in supervised clinical settings.

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Describe the concept of health, illness and health care agencies.</li> <li>• Discuss the health belief and health promotion.</li> <li>• Enumerate factors influencing health, health belief and practices.</li> <li>• Discuss types, organization and functions of hospitals.</li> <li>• Explain primary</li> </ul>	<p><b>Health and Wellness</b></p> <ul style="list-style-type: none"> <li>- Definition of health</li> <li>- Concept of health</li> <li>- Concept of wellness and wellbeing</li> <li>- Concept of health-illness continuum</li> <li>- Models of health and illness</li> <li>- Variables influencing health and health beliefs and practices</li> <li>- Health promotion, wellness, and levels of disease prevention</li> <li>- Risk factors influencing health</li> <li>- Risk-factor modification and changing health behaviors</li> <li>- Illness and illness behaviour</li> <li>- Impact of illness on the client and family</li> <li>- National Health Policy of India</li> <li>- Health care services: <i>Health promotion and prevention, primary care, diagnosis, treatment, rehabilitation and continuing care</i></li> <li>- Health care teams</li> <li>- Types of health care agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Symposium</li> <li>• Seminar</li> <li>• Visit to health care agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• Viva-Voce</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		health care in India and the role of nurse	- Hospitals: <i>Types, organization and functions</i> - Health promotion and levels of disease prevention - Primary health care and its delivery: <i>Role of nurse</i>		
<b>II</b>	<b>16</b>	<ul style="list-style-type: none"> <li>• Explain concept, philosophy, objectives and scope of nursing.</li> <li>• Discuss the role and responsibilities of a nurse.</li> <li>• Appreciate the definition and characteristics of nursing as profession.</li> <li>• Describe values, code of ethics and professional conduct for nurses in India.</li> </ul>	<b>Nursing as a Profession</b> - Nursing: Definition, concepts, philosophy, objectives, - History of nursing in India - Characteristics, nature and scope of nursing practices - Qualities of a professional nurse - Professional responsibilities and roles of a nurse - Categories of nursing personnel - Nursing as a profession: <i>Definition and characteristics of a profession</i> - Nursing education in India - International & national nursing organizations - Trends of nursing in India - Ethics and values in nursing <ul style="list-style-type: none"> <li>○ <i>Professional nursing code of ethics</i></li> <li>○ <i>Code of ethics for nurses in India</i></li> <li>○ <i>Ethical dilemma and issues in healthcare</i></li> <li>○ <i>Values: Definition, value formation and value clarification</i></li> </ul> - Evidence Based Practice (EBP) in Nursing	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Symposium</li> <li>• Seminar</li> <li>• Role plays</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• Viva-Voce</li> </ul>
<b>III</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Explain the admission &amp; discharge procedure.</li> <li>• Appreciate the legal implications in admission and discharge of patient.</li> <li>• Discuss the role &amp; responsibilities of a nurse in admission &amp; discharge.</li> <li>• Performs admission &amp; discharge procedure.</li> </ul>	<b>Hospital Admission and Discharge</b> - Admission to the hospital <ul style="list-style-type: none"> <li>○ <i>Unit and its preparation admission bed.</i></li> <li>○ <i>Admission procedure</i></li> <li>○ <i>Special considerations</i></li> <li>○ <i>Medico legal issues in admission</i></li> <li>○ <i>Roles and responsibilities of the nurse in admission</i></li> </ul> - Discharge from the hospital <ul style="list-style-type: none"> <li>○ <i>Types of discharge: Planned discharge, LAMA/DAMA and abscond, referrals and transfers.</i></li> <li>○ <i>Discharge planning.</i></li> <li>○ <i>Discharge procedure.</i></li> <li>○ <i>Special considerations.</i></li> <li>○ <i>Medico legal issues in discharge</i></li> <li>○ <i>Roles and responsibilities of the nurse in discharge.</i></li> <li>○ <i>Care of the unit after discharge.</i></li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Symposium</li> <li>Seminar</li> <li>Role plays</li> <li>Demonstration</li> <li>Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• Clinical performance evaluation.</li> <li>• Viva-voce</li> </ul>
<b>IV</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Describe concept,</li> </ul>	<b>Communication and Nurse Patient Relationship</b>	<ul style="list-style-type: none"> <li>• Lecture cum</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		<p>elements and forms of communication</p> <ul style="list-style-type: none"> <li>• Demonstrate ability to effectively communicate and develop nurse patient relationship.</li> </ul>	<ul style="list-style-type: none"> <li>- Communication and nursing practice.</li> <li>- Basic elements of communication process.</li> <li>- Forms of communication.</li> <li>- Professional nursing relationship.</li> <li>- Elements of professional communication.</li> <li>- Communicating with special group (children, women, physically and mentally challenged and elderly).</li> <li>- Patient teaching: <i>importance, purpose, process, role of nurse</i></li> </ul>	<p>discussion</p> <ul style="list-style-type: none"> <li>• Seminar</li> <li>• Demonstration of recorded videos.</li> <li>• Role plays</li> <li>• Practice session on patient.</li> </ul>	<ul style="list-style-type: none"> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Viva-voce</li> </ul>
V	15	<ul style="list-style-type: none"> <li>• Describe critical thinking and its use in clinical nursing judgment.</li> <li>• Explain the concept, uses, format and steps of nursing process.</li> <li>• Documents nursing process as per prescribed format.</li> </ul>	<p><b>The Nursing Process</b></p> <ul style="list-style-type: none"> <li>- Clinical decisions in nursing practice</li> <li>- Critical thinking defined</li> <li>- Levels of critical thinking in nursing</li> <li>- Critical thinking competencies</li> <li>- A critical thinking model for clinical decision making</li> <li>- Developing critical thinking skills</li> <li>- Critical thinking synthesis</li> <li>- Nursing Process: Overview <ul style="list-style-type: none"> <li>○ <i>Nursing assessment.</i></li> <li>○ <i>Nursing diagnosis</i></li> <li>○ <i>Planning nursing care</i></li> <li>○ <i>Implementation of nursing care</i></li> <li>○ <i>Evaluation</i></li> </ul> </li> </ul>	<p>Lecture cum discussion</p> <p>Demonstration</p> <p>Supervised clinical practice</p>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Viva-voce</li> </ul>
VI	4	<ul style="list-style-type: none"> <li>• Describe the purposes types and techniques of recording and reporting in nursing practices.</li> </ul>	<p><b>Documentation and Reporting</b></p> <ul style="list-style-type: none"> <li>• Documentation: <i>Purpose of recording and reporting</i></li> <li>• Communication within the health care team</li> <li>• Types of records: <i>ward records, medical/nursing records</i></li> <li>• Common record keeping forms, computerized documentation</li> <li>• Guideline for reporting: <i>factual basis, accuracy, completeness, correctness, organization, &amp; confidentiality</i></li> <li>• Methods of recording</li> <li>• Reporting: <i>Change of shift reports, Transfer reports, incident reports</i></li> <li>• Minimizing legal liability through effective record keeping</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Lab demonstration.</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Viva-voce</li> </ul>
VII	15	<ul style="list-style-type: none"> <li>• Describe physiology, regulation and factors</li> </ul>	<p><b>Vital Signs</b></p> <ul style="list-style-type: none"> <li>- Guidelines for taking vital signs</li> <li>- <b>Body temperature:</b> <ul style="list-style-type: none"> <li>○ Physiology, regulation, factors</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		<p>affecting vital signs of human body.</p> <ul style="list-style-type: none"> <li>• Discuss principles and techniques of vital signs monitoring.</li> <li>• Identify the alteration in vital signs.</li> </ul>	<p>affecting body temperature.</p> <ul style="list-style-type: none"> <li>○ Assessment of body temperature: <i>sites, equipments and technique, special considerations.</i></li> <li>○ Temperature alterations (hyperthermia, hypothermia &amp; Heatstroke): <i>assessment &amp; management.</i></li> <li>○ Hot and cold applications.</li> </ul> <p><b>- Pulse:</b></p> <ul style="list-style-type: none"> <li>○ Physiology and regulation, characteristics of the pulse, factors affecting pulse.</li> <li>○ Assessment of pulse: <i>sites, location, equipments and technique, special considerations.</i></li> <li>○ Alterations in pulse: Tachycardia and bradycardia.</li> </ul> <p><b>- Respiration:</b></p> <ul style="list-style-type: none"> <li>○ Physiology and regulation, mechanics of breathing, characteristics of the respiration, factors affecting respiration.</li> <li>○ Assessment of respiration: <i>techniques, special consideration.</i></li> <li>○ Alteration in respiration: <i>types, assessment &amp; management.</i></li> </ul> <p><b>- Blood pressure:</b></p> <ul style="list-style-type: none"> <li>○ Physiology and regulation, characteristics of the blood pressure, factors affecting blood pressure</li> <li>○ Assessment of blood pressure: <i>sites , equipments and technique, special considerations</i></li> <li>○ Alterations in blood pressure: <i>Hypertension and hypotension.</i></li> </ul> <p>- Recording of vital signs</p>	<ul style="list-style-type: none"> <li>• Seminar</li> <li>• Lab demonstration.</li> <li>• Practice session on patient.</li> <li>• Supervised clinical practice</li> </ul>	<p>questions</p> <ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Clinical performance evaluation</li> <li>• Viva-voce</li> </ul>
<b>VIII</b>	<b>30</b>	<ul style="list-style-type: none"> <li>• Describe purpose &amp; process of health assessment.</li> <li>• Discuss the methods &amp; techniques health assessment.</li> <li>• Perform health assessment of each body system.</li> </ul>	<p><b>Health Assessment</b></p> <ul style="list-style-type: none"> <li>• Purposes of health assessment</li> <li>• Health history taking</li> <li>• Physical examination <ul style="list-style-type: none"> <li>○ Preparation &amp; organization of physical examination</li> <li>○ Methods &amp; techniques of physical assessment.</li> <li>○ General assessment</li> <li>○ Head to toe examination</li> <li>○ Systemic health assessment</li> <li>○ Assessment of self care ability</li> <li>○ Recording of health assessment</li> <li>○ After care of physical assessment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> <li>• Lab demonstration.</li> <li>• Practice session on patient.</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Clinical performance evaluation</li> <li>• Viva-voce</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
IX	5	<ul style="list-style-type: none"> <li>Identifies the various machinery, equipment, linen uses in patient care &amp; their care.</li> </ul>	<b>Machinery, Equipment and Linen in Patient Care</b> <ul style="list-style-type: none"> <li>Indent, maintenance and inventory.</li> <li>Hospital housekeeping. <ul style="list-style-type: none"> <li>Purposes, principles and basic guidelines</li> <li>Care rubber/plastic goods</li> <li>Care of linen</li> <li>Care of enamelware</li> <li>Care of stainless steel articles</li> <li>Care of glassware</li> <li>Care of hospital furniture</li> <li>Care of sharp instruments</li> <li>Care machines used in patient care</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Seminar</li> <li>Lab demonstration.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type questions</li> <li>Short note questions</li> <li>Short answer questions</li> <li>Viva-voce</li> </ul>
X	75	<ul style="list-style-type: none"> <li>Describe the physiological &amp; psychological needs of the patient.</li> <li>Describe the principles &amp; techniques for meeting physiological &amp; psychological needs of the patient.</li> <li>Perform nursing assessment, plan, implement &amp; evaluate the care for meeting physiological &amp; psychological needs of the patient.</li> <li>Demonstrates the skills in performing basic and advanced nursing procedures to meet the physical, physiological and psychological needs of the patient.</li> </ul>	<b>Meeting Needs of Hospitalized Patient</b> <ul style="list-style-type: none"> <li><b>- Patient safety:</b> <ul style="list-style-type: none"> <li>Environmental safety: <i>temperature, humidity, noise, ventilation, light, odour, pests control.</i></li> <li>Fall, fire and accident safety</li> <li>Safety devices: <i>restraints, side rails, airways, trapez etc</i></li> <li>Role of nurse in providing safe and clean environment</li> </ul> </li> <li><b>- Hygiene:</b> <ul style="list-style-type: none"> <li>Factors influencing hygiene practice.</li> <li>Hygienic care: Hair care, Oral care, Bed bath, Back care, Hand-feet &amp; nail care, Eye care, Care of ear and nose.</li> <li>Patient environment: <i>Unit cleaning/ disinfection.</i></li> </ul> </li> <li><b>- Comfort:</b> <ul style="list-style-type: none"> <li>Factors influencing comfort</li> <li>Types of beds and bed making</li> <li>Comfort devices</li> <li>Pain management: <i>Nature, types, factors influencing pain, coping, assessment and management of pain.</i></li> </ul> </li> <li><b>- Sleep and rest:</b> <ul style="list-style-type: none"> <li>Physiology of sleep</li> <li>Factors affecting sleep</li> <li>Promoting rest &amp; sleep</li> <li>Sleep disorders</li> </ul> </li> <li><b>- Nutrition:</b> <ul style="list-style-type: none"> <li>Importance and factors affecting nutritional needs</li> <li>Assessment of nutritional needs</li> <li>Meeting nutritional needs <ul style="list-style-type: none"> <li>Oral feeding</li> <li>Enteral feeding: Naso/orogastric, nasoenteric feeding, &amp;</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Seminar</li> <li>Lab demonstration.</li> <li>Practice session on patient.</li> <li>Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type questions</li> <li>Short note questions</li> <li>Short answer questions</li> <li>OSCE</li> <li>Clinical performance evaluation</li> <li>Clinical practical examination</li> <li>Viva-voce</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p style="padding-left: 40px;">gastrostomy/ jujenostomy.</p> <ul style="list-style-type: none"> <li>• Parenteral nutrition.</li> </ul> <p><b>- Urinary elimination:</b></p> <ul style="list-style-type: none"> <li>○ Factors influencing urination</li> <li>○ Alteration in urinary elimination</li> <li>○ Types and collection of urine specimen: Observation, urine testing.</li> <li>○ Facilitating urine elimination: assessment, types, equipments, procedures and special considerations <ul style="list-style-type: none"> <li>• Providing urinal/bed pan</li> <li>• Perineal care</li> <li>• Condom urinary drainage</li> <li>•</li> <li>• Urinary catheterization</li> <li>• Indwelling catheter care</li> <li>• Care of urinary diversions</li> <li>• Closed catheter irrigation</li> </ul> </li> </ul> <p><b>- Bowel elimination:</b></p> <ul style="list-style-type: none"> <li>○ Factors affecting bowel elimination.</li> <li>○ Alteration in bowel elimination</li> <li>○ Types and collection of specimen of faeces: observation.</li> <li>○ Facilitating bowel elimination: assessment, equipments, procedures and special considerations <ul style="list-style-type: none"> <li>• Passing of flatus tube</li> <li>• Enemas</li> <li>• Suppository</li> <li>• Sitz bath</li> <li>• Bowel wash</li> <li>• Care of ostomies</li> <li>• Nasogastric suction/ gastric decompression gastric irrigation, &amp; gastric analysis.</li> </ul> </li> </ul> <p><b>- Mobility and exercise:</b></p> <ul style="list-style-type: none"> <li>○ Principles of body mechanics.</li> <li>○ Maintenance of normal body alignment and mobility.</li> <li>○ Factors affecting body alignment and mobility.</li> <li>○ Hazards associated with immobility</li> <li>○ Alteration in body alignment and mobility.</li> <li>○ Nursing interventions for impaired body alignment and mobility: assessment, types, devices used, method and special</li> </ul>		

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>considerations, rehabilitation aspects</p> <ul style="list-style-type: none"> <li>• Range of motion exercises.</li> <li>• Positions of patient in bed.</li> <li>• Moving and lifting.</li> <li>• Transferring &amp; transporting.</li> </ul> <p><b>- Oxygenation:</b></p> <ul style="list-style-type: none"> <li>○ Factors affecting oxygenation.</li> <li>○ Alterations in oxygenation.</li> <li>○ Nursing interventions in oxygenation: assessment, types, equipment used, procedure and special considerations</li> <li>• Maintenance of patent airway</li> <li>• Oxygen administration</li> <li>• Inhalations: dry and moist</li> <li>• Chest physiotherapy and postural drainage</li> <li>• Suctioning</li> <li>• Care of chest drainage</li> <li>• Pulse oximetry</li> <li>• Basic life support (BLS)</li> </ul> <p><b>- Fluid, electrolyte and acid base balances</b></p> <ul style="list-style-type: none"> <li>○ Distribution and composition of body fluids.</li> <li>○ Movements and regulation of body fluid and electrolytes.</li> <li>○ Regulation of acid-base balance &amp; types of acid-base imbalance.</li> <li>○ Types of intravenous fluids.</li> <li>○ Measuring fluid intake and output and maintaining intake-output charts.</li> <li>○ Initiating intravenous therapy.</li> <li>○ Regulating intravenous flow rate</li> <li>○ Maintenance of intravenous system</li> <li>○ Changing a peripheral intravenous dressing.</li> <li>○ Blood transfusion.</li> <li>○ Conditions need fluid restriction</li> </ul> <p><b>- Skin integrity</b></p> <ul style="list-style-type: none"> <li>○ Pressure ulcers: concept, pathogenesis and classification.</li> <li>○ Risk factors of pressure ulcer development.</li> <li>○ Factors influencing pressure ulcer formation</li> <li>○ Care &amp; management of pressure ulcer. <ul style="list-style-type: none"> <li>• Assessment for risk for pressure ulcer development</li> </ul> </li> </ul>		

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>• Management of pressure ulcers</li> </ul> <p><b>- Psychosocial needs</b></p> <ul style="list-style-type: none"> <li>○ Concepts of cultural diversity, self concept, sexuality, spiritual health, stress and adaptation.</li> <li>○ Assessment of psychosocial needs of patient and family.</li> <li>○ Nursing intervention for psychosocial needs.</li> <li>○ Assisting with coping and adaptation</li> <li>○ Creating therapeutic environment</li> <li>○ Recreational and diversional therapies.</li> </ul>		
<b>XI</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Describe the principles &amp; techniques for infection control &amp; biomedical waste management in supervised clinical settings.</li> </ul>	<p><b>Infection Control in Clinical Settings</b></p> <p><b>- Infection control</b></p> <ul style="list-style-type: none"> <li>○ Nature of infection.</li> <li>○ Chain of infection transmission.</li> <li>○ Defenses against infection: natural and acquired.</li> <li>○ Hospital acquired infection (Nosocomial infection).</li> <li>○ Concept of asepsis: <i>medical asepsis and surgical asepsis</i>.</li> <li>○ Isolation precautions (Barrier nursing)</li> <li>○ Hand washing: <i>Medical and surgical hand washing</i>.</li> <li>○ Isolation: source and protective.</li> <li>○ Personal protecting equipments: <i>types, uses and technique of wearing and removing</i></li> <li>○ <i>Disinfection of</i> equipment and unit</li> <li>○ Transportation of infected patients</li> <li>○ Standard safety precautions (universal precautions).</li> <li>○ Transmission based precautions</li> </ul> <p><b>- Biomedical waste management:</b></p> <ul style="list-style-type: none"> <li>○ Concept and importance</li> <li>○ Types of hospital waste</li> <li>○ Hazards associated with hospital waste</li> <li>○ Segregation of hospital waste</li> <li>○ Treatment, transportation and disposal of hospital waste</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> <li>• Lab demonstration.</li> <li>• Practice session on patient.</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Viva-voce</li> </ul>
<b>XII</b>	<b>40</b>	<ul style="list-style-type: none"> <li>• Describe the concept, routes, and effects of medication administration.</li> </ul>	<p><b>Administration of Medications</b></p> <ul style="list-style-type: none"> <li>- Pharmacological concept:</li> <li>- Pharmacokinetics &amp; Pharmacodynamics</li> <li>- Indian drug legislations &amp; standards</li> <li>- Routes of drug administration</li> <li>Types of drug action/ effects</li> <li>- Storage and maintenance of drugs and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> <li>• Lab</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		<ul style="list-style-type: none"> <li>• Demonstrate the skills in drug dose calculation and conversion within and between systems of measurement</li> <li>• Discuss purposes, sites, equipments, preparation and procedure of drug admission through different routes.</li> <li>• Demonstrate the skills in administration of drugs through oral, topical and parenteral routes.</li> </ul>	<p>nurses responsibility.</p> <ul style="list-style-type: none"> <li>- Systems of drug measurement</li> <li>- Clinical drug dose calculation &amp; converting</li> <li>- Terminologies and abbreviations used in prescriptions of medications.</li> <li>- Principles of drug administration including seven 'Rs'.</li> <li>- Medication administration:               <ul style="list-style-type: none"> <li>○ Oral drugs administration: oral, sublingual and buccal</li> <li>○ Parenteral medication: purpose, sites, equipments, preparation and procedure &amp; special consideration:-                   <ul style="list-style-type: none"> <li>➤ Subcutaneous injection</li> <li>➤ Intradermal injection</li> <li>➤ Intramuscular injection</li> <li>➤ Intravenous infusion</li> <li>➤ Advanced injection techniques: epidural, intrathecal, intraosseous, intraperitoneal, intraplural, intraarterial:- role of nurse .</li> </ul> </li> <li>○ Topical application: purposes, site, equipment, procedure, special considerations:                   <ul style="list-style-type: none"> <li>➤ Skin application</li> <li>➤ Nasal instillation</li> <li>➤ Eye instillation</li> <li>➤ Ear instillation</li> <li>➤ Vaginal instillation</li> <li>➤ Rectal instillation</li> </ul> </li> <li>○ Medical by inhalation:</li> <li>○ Irrigations: eye, ear, bladder, vaginal and rectal.</li> <li>○ Spraying: nose and throat</li> </ul> </li> <li>- Recording and reporting of medications administered</li> </ul>	<p>demonstration.</p> <ul style="list-style-type: none"> <li>• Practice session on patient.</li> <li>• Supervised clinical practice</li> </ul>	<p>answer questions</p> <ul style="list-style-type: none"> <li>• OSCE</li> <li>• Clinical performance evaluation</li> <li>• Viva-voce</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
XIII	10	<ul style="list-style-type: none"> <li>• Describe the pre, intra &amp; post operative care of patients.</li> <li>• Explain the process of wound healing.</li> <li>• Explain the principles &amp; procedures of wound care.</li> <li>• Demonstrate the skills in wound care.</li> </ul>	<p><b>Meeting Needs of Perioperative Patients</b></p> <ul style="list-style-type: none"> <li>- Definition and concept of peri-operative nursing</li> <li>- Preoperative phase               <ul style="list-style-type: none"> <li>o Preparation of patient for surgery</li> </ul> </li> <li>- Intra-operative phase               <ul style="list-style-type: none"> <li>o Operation theatre set up and environment</li> <li>o Role of nurse in intra-operative phase.</li> </ul> </li> <li>- Postoperative phase               <ul style="list-style-type: none"> <li>o Recovery unit and post operative unit.</li> <li>o Postoperative care</li> </ul> </li> <li>- Wounds: <i>types, classifications wound healing process, factors affecting wound, complications of wound healing</i></li> <li>- Surgical asepsis</li> <li>- Care of the wound: <i>types, equipments, procedure and special considerations</i> <ul style="list-style-type: none"> <li>o Surgical dressings, suture care.</li> <li>o Care of drainage at surgical site.</li> <li>o Application of bandages, abdomen binders.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> <li>• Lab demonstration.</li> <li>• Practice session on patient.</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Clinical performance evaluation</li> <li>• Viva-voce</li> </ul>
XIV	5	<ul style="list-style-type: none"> <li>• Explain care of terminally ill patients.</li> <li>• Discuss the legal &amp; medico-legal issues in care of terminally ill patient.</li> </ul>	<p><b>Care of terminally ill patient</b></p> <ul style="list-style-type: none"> <li>- Concepts of loss, grief, grieving process</li> <li>- Signs of clinical death</li> <li>- Care of dying patient: special considerations.</li> <li>- Advance directives: euthanasia, will dying declaration, organ donation etc.</li> <li>- Medico legal issues in care of terminally ill patient.</li> <li>- Care of dead body: equipment, procedure and care of unit</li> <li>- Autopsy and embalming</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> <li>• Lab demonstration.</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> <li>• OSCE</li> <li>• Viva-voce</li> </ul>
XV	6	<ul style="list-style-type: none"> <li>• Explain the basic concepts of conceptual &amp; theoretical models of nursing.</li> </ul>	<p><b>Theoretical Foundations of Nursing Practice</b></p> <ul style="list-style-type: none"> <li>- The domain of nursing theory</li> <li>- Interdisciplinary theories</li> <li>- Selected nursing theories</li> <li>- Link between theory and knowledge development in nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type questions</li> <li>• Short note questions</li> <li>• Short answer questions</li> </ul>

# NURSING FOUNDATIONS - PRACTICAL

**Placement: First Year**

**Time: Practical – 650 Hours**  
**(200 Lab & 450 Clinical)**

<b>Practical – I</b> <b>Nursing Foundation Practical with</b> <b>Viva Voce</b>	<b>Internal</b> <b>Assessment</b>	<b>(Final Practical</b> <b>Exam)</b>	<b>Total</b>
	100	100	200

**Note:**

An examiner in practical-I – Nursing Foundation – Practical with viva voce needs to be M.Sc. Nursing with any nursing specialty with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** This course is designed to help the students to develop an understanding of the philosophy, objectives, theories & process of nursing in various clinical settings. It is aimed at helping the students to acquire knowledge, understanding & skills in techniques nursing & practice them in clinical settings.

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
Demonstration lab, General Medical & Surgical Ward	200 Hrs Lab and 450 Hrs minimum practice time in clinical area	<ul style="list-style-type: none"> <li>• Performs admission and discharge procedure.</li> </ul>	<p><b>Hospital Admission &amp; Discharge</b></p> <ul style="list-style-type: none"> <li>• Prepare unit for new patient</li> <li>• Prepare admission bed</li> <li>• Performs admission procedure                             <ul style="list-style-type: none"> <li>▪ New patient</li> <li>▪ Transfer in</li> </ul> </li> <li>• Prepare patient records</li> </ul> <p><b>Discharge/ Transfer Out</b></p> <ul style="list-style-type: none"> <li>• Provide discharge teaching.</li> <li>• Perform discharge procedure (planned discharge, LAMA/DAMA &amp; Referrals &amp; Transfers)</li> <li>• Prepare records of discharge/ Transfer.</li> <li>• Dismantle &amp; disinfect unit &amp; equipment after discharge/ transfer.</li> </ul>	<ul style="list-style-type: none"> <li>• Supervised nursing practice in unit/ hospital.</li> </ul>	<ul style="list-style-type: none"> <li>• Competition of practical record.</li> <li>• Assessment of clinical performance with designed checklist/ rating scale.</li> <li>• Viva-voce</li> <li>• OSCE</li> </ul>
		<ul style="list-style-type: none"> <li>• Prepares Nursing Care Plan as per prescribed the nursing process</li> </ul>	<p><b>Nursing Process</b></p> <p><b>I. Health Assessment</b></p> <ul style="list-style-type: none"> <li>• Health history taking.</li> <li>• Physical examination                             <ul style="list-style-type: none"> <li>- General observation</li> <li>- Head to toe examination</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Write nursing process records of patient.</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of nursing process records with check-list.</li> </ul>

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
		<p>format</p> <ul style="list-style-type: none"> <li>• Communicate effectively with patient families &amp; team members.</li> <li>• Maintain effective nurse patient relations.</li> <li>• Develops plan for patient teaching</li> <li>• Prepare patient reports</li> <li>• Present written and oral patient reports</li> <li>• Monitor vital signs.</li> <li>• Perform health assessment of assigned patients.</li> </ul>	<ul style="list-style-type: none"> <li>- Systemic examination (Practice inspection, percussion, palpitation &amp; auscultation).</li> <li>• Monitor and interpret vital signs.</li> <li>• Assessment of self care ability of patient</li> </ul> <p><b>II. Nursing diagnosis</b></p> <ul style="list-style-type: none"> <li>• Listing nursing problems</li> <li>• Prioritizing the problems</li> <li>• Writing the nursing diagnosis referring NANDA categories.</li> </ul> <p><b>III. Planning</b></p> <ul style="list-style-type: none"> <li>• Planning goals and expected outcomes</li> <li>• Planning the nursing interventions.</li> </ul> <p><b>IV. Implementation</b></p> <ul style="list-style-type: none"> <li>• Providing the nursing care as per plan.</li> </ul> <p><b>V. Evaluation</b></p> <ul style="list-style-type: none"> <li>• Make judgment to what extent the planned goals are meet.</li> </ul> <p><b>Communication skills</b></p> <ul style="list-style-type: none"> <li>• Practicing therapeutic communication techniques</li> <li>• Plan and perform a patient teaching.</li> </ul> <p><b>Maintaining patient's records report</b></p> <ul style="list-style-type: none"> <li>• TPR charting</li> <li>• Initial assessment record.</li> <li>• Intake-output charting</li> <li>• Medication charting</li> <li>• Nurses notes.</li> <li>• Change of shift reports, transfer report, incident reports etc.</li> <li>• Presenting patients report.</li> </ul>	<ul style="list-style-type: none"> <li>• Simulated – 1</li> <li>• Actual – 1</li> <li>• Role plays in simulated situation &amp; communication techniques- 1</li> <li>• Health talk – 1</li> <li>• Write nurses notes &amp; present the patient report of 2-3 assigned patients.</li> <li>• Lab practice</li> <li>• Measure vital signs of assigned patients.</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of actual care given with rating scale.</li> <li>• Assess role plays with check-list on communication techniques.</li> <li>• Assess health talk with check-list</li> <li>• Assessment of performance with rating scale.</li> <li>• Assessment</li> </ul>

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> <li>• Provide basic nursing care to patients.</li> </ul>	<p><b>Patient's Unit Maintenance and Comfort:</b></p> <ul style="list-style-type: none"> <li>• <i>Prepare beds</i> <ul style="list-style-type: none"> <li>▪ Open, closed, occupied, operation, amputation</li> <li>▪ Cardiac, fracture, burn, divided &amp; fowler's bed</li> </ul> </li> <li>• Use of comfort devices.</li> <li>• Pain assessment &amp; management</li> </ul> <p><b>Hygienic care</b></p> <ul style="list-style-type: none"> <li>• Oral hygiene</li> <li>• Bed baths</li> <li>• Back care/ care of pressure points</li> <li>• Hair care/wash</li> <li>• Eye care</li> <li>• Pediculosis treatment.</li> <li>• Hand-feet care</li> <li>• Perinial care.</li> </ul> <p><b>Nutrition/ Feeding</b></p> <ul style="list-style-type: none"> <li>• Oral feeding</li> <li>• Nasogastric tube insertion</li> <li>• Nasogastric tube feeding</li> <li>• Gastric lavage</li> </ul> <p><b>Urinary elimination</b></p> <ul style="list-style-type: none"> <li>• Provides urinal/ bed pan</li> <li>• Condom urinary drainage</li> <li>• Urinary catheterization</li> <li>• Indwelling catheter care</li> <li>• Care of urinary drainage</li> <li>• Bladder irrigation</li> <li>• Care of urinary diversions</li> </ul> <p><b>Bowel elimination:</b></p> <ul style="list-style-type: none"> <li>• Insertion of flatus tube</li> <li>• Giving enemas</li> <li>• Insertion of suppository</li> <li>• Bowel wash</li> <li>• Sitz bath</li> <li>• Care of ostomies</li> </ul> <p><b>Mobility and exercise:</b></p> <ul style="list-style-type: none"> <li>• Range of motion exercises.</li> </ul>	<ul style="list-style-type: none"> <li>• Practice in lab &amp; hospital</li> <li>• Simulated exercise of BLS on manikin.</li> </ul>	<p>of each skill with check-list</p> <ul style="list-style-type: none"> <li>• Completion of activity record book</li> <li>• Assessment of each skill with rating scale</li> <li>• Completion of activity record book</li> </ul>

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> <li>• Perform infection control procedures.</li> </ul>	<ul style="list-style-type: none"> <li>• Positions of patient in bed.</li> <li>• Moving and lifting.</li> <li>• Transferring &amp; transporting.</li> </ul> <p><b>Oxygenation</b></p> <ul style="list-style-type: none"> <li>• Maintenance of patent airway</li> <li>• Care of artificial airway.</li> <li>• Oxygen administration</li> <li>• Inhalations: dry and moist</li> <li>• Chest physiotherapy and postural drainage</li> <li>• Suctioning</li> <li>• Care of chest drainage</li> <li>• Pulse oximetry</li> <li>• Basic life support (BLS)</li> </ul> <p><b>Intravenous Therapy</b></p> <ul style="list-style-type: none"> <li>• Measuring fluid intake and output and maintaining intake-output charts.</li> <li>• Initiating intravenous therapy: IV cannulation</li> <li>• Regulating intravenous flow rate.</li> <li>• Maintenance of intravenous system</li> <li>• Changing a peripheral intravenous line &amp; dressing.</li> <li>• Blood &amp; blood component transfusion.</li> </ul> <p><b>Infection Control</b></p> <ul style="list-style-type: none"> <li>• Perform following procedures: <ul style="list-style-type: none"> <li>▪ Hand washing techniques</li> <li>▪ Medical and surgical hand washing</li> <li>▪ Prepare isolation unit in lab/ward.</li> <li>▪ Practice technique of wearing and removing personal protective equipment(PPE)</li> <li>▪ Practice standard safety precautions(unive</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Observation study-2</li> </ul>	

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> <li>• Provide care to pre &amp; postoperative patients.</li> <li>• Perform procedures for care of wounds.</li> <li>• Administer drugs through enteral and parental routes</li> </ul>	<p style="text-align: center;">(Personal precautions)</p> <p><b>Decontamination of equipment and unit:</b></p> <ul style="list-style-type: none"> <li>• Surgical asepsis: <ul style="list-style-type: none"> <li>▪ Sterilization</li> <li>▪ Handling sterilized equipment.</li> <li>▪ Disinfection of articles, equipments.</li> <li>▪ Calculate strengths of lotions for disinfection</li> <li>▪ Prepare disinfection solutions.</li> </ul> </li> <li>• Care of articles</li> </ul> <p><b>Pre and Post operative Care:</b></p> <ul style="list-style-type: none"> <li>• Skin preparations for surgery: local</li> <li>• Preparation of post-operative unit</li> <li>• Pre and Post operative teaching.</li> <li>• Pre ad post operative monitoring.</li> <li>• Care of the surgical wound:</li> <li>• Surgical dressings, suture care, care of drainage,</li> <li>• Application of bandages, binders.</li> <li>• Bandaging of various body parts.</li> </ul> <p><b>Medication Administration</b></p> <ul style="list-style-type: none"> <li>• Administer medications in different forms and routes.</li> <li>• Oral, sublingual, &amp; buccal</li> <li>• Parenteral: intradermal, subcutaneous, intramuscular etc</li> <li>• Assist with intravenous medications</li> <li>• Drug Measurements &amp; Dose calculations.</li> <li>• Preparations of lotions &amp; solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Visits CSSD write observation report -1</li> <li>• Collection of samples for culture.</li> <li>• Do clinical posting in infection control department and write a report.</li> <li>• Practice in lab &amp; ward.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess observation study with checklist</li> <li>• Evaluate all procedures with checklist</li> </ul>

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> <li>• Provide care to dying and dead patient.</li> <li>• Counsel, support and provide bereavement care to family.</li> </ul>	<ul style="list-style-type: none"> <li>• Administer topical application</li> <li>• Insertion of drug into body cavity: suppository &amp; medicated packing etc</li> <li>• Instillation of medicines &amp; spray into ear, eye, nose &amp; throat</li> <li>• Irrigations: eye, ear, bladder, vagina&amp; rectum</li> <li>• Inhalations: dry &amp; moist</li> </ul> <p><b>Care of Dying patient</b></p> <ul style="list-style-type: none"> <li>• Caring &amp; packing of dead body</li> <li>• Counseling &amp; supporting grieving relatives</li> <li>• Terminal care of unit</li> </ul> <p><b>Miscellaneous skills</b></p> <ul style="list-style-type: none"> <li>• Collect/ assist for collection of specimens for investigations – urine, sputum, faeces, vomitus, blood &amp; other body fluids.</li> <li>• Perform lab tests <ul style="list-style-type: none"> <li>▪ Urine: Sugar, Albumin, Acetone</li> <li>▪ Blood: Sugar (With strip/ glucometer)</li> </ul> </li> <li>• Hot &amp; cold applications</li> <li>• Recreational and diversional therapies</li> </ul>		

*\* Advance nursing procedures will be only observed during first years; skill training of these procedures will be ensured during subsequent years.*

# PSYCHOLOGY

Placement: First Year

Time: Theory- 60 hrs

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
IV	Psychology	25	75	100

**Scheme of examination (Theory / Written)**

Paper	Subject	Duration	Max. Marks (Final Exam)
IV	Psychology	3 hours	75

**Question paper pattern**

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

**Note:**

An examiner / paper setter in the subject of Paper – IV: Psychology need to have a post graduate degree in Psychology / Psychiatric nursing with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** This course is designed to assist the students to acquire knowledge of fundamentals of psychology & develop an insight into behavior of self & others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing factors.

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>2</b>	<ul style="list-style-type: none"> <li>• Describe the history, scope &amp; methods of psychology.</li> </ul>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• History and origin of science of psychology</li> <li>• Definitions &amp; Scope of psychology</li> <li>• Relevance to nursing</li> <li>• Methods of psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>II</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Explain the biology of human behavior.</li> </ul>	<p><b>Biology of behaviour</b></p> <ul style="list-style-type: none"> <li>• Body mind relationship modulation process in health and illness</li> <li>• Genetics and behaviour: Heredity and environment</li> <li>• Brain and behaviour: Nervous System, Neurons and synapse,</li> <li>• Association Cortex, Rt and Lt Hemispheres</li> <li>• Psychology of Sensations</li> <li>• Muscular and glandular controls of behaviour</li> <li>• Nature of behaviour of an</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			organism/ Integrated responses		
III	20	<ul style="list-style-type: none"> <li>Describe various cognitive processes &amp; their applications.</li> </ul>	<b>Cognitive Processes:</b> <ul style="list-style-type: none"> <li>Attention: Types, determinants, Duration &amp; degree and alterations</li> <li>Perception: Meaning, Principles, factors affecting and Errors,</li> <li>Learning: Nature, Types, Learner and learning, Factors influencing, laws and theories, process, transfer and study habits</li> <li>Memory: Meaning, Types, Nature, Factors influencing, Development theories and methods of memorizing &amp; forgetting</li> <li>Thinking: Types and levels, stages of development, Relationship with language and communication</li> <li>Intelligence: Meaning, classification, uses and theories</li> <li>Aptitude: Concept, types, Individual differences and variability</li> <li>Psychometric assessment of cognitive processes</li> <li>Alterations in cognitive process</li> <li>Applications</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Psychometric assessment.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
IV	8	<ul style="list-style-type: none"> <li>Describe motivation, emotions, stress, attitudes &amp; their influence on behavior.</li> </ul>	<b>Motivation and Emotional processes:</b> <ul style="list-style-type: none"> <li>Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, Conflicts and frustration and conflict resolution</li> <li>Emotions &amp; stress <ul style="list-style-type: none"> <li>Emotion: Definition, components, Changes in emotions, theories, emotional adjustment, emotions in health and illness</li> <li>Stress: stressors, cycle, effect, adaptation &amp; coping</li> </ul> </li> <li>Attitude: Meaning, nature, development and factors affecting, <ul style="list-style-type: none"> <li>Behaviour and attitudes</li> <li>Attitudinal changes</li> </ul> </li> <li>Psychometric assessments of emotions and attitudes</li> <li>Alterations in emotions</li> <li>Applications</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Role plays.</li> <li>Case Discussion</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
V	7	<ul style="list-style-type: none"> <li>Explain the concepts of personality &amp; its influence on</li> </ul>	<b>Personality:</b> <ul style="list-style-type: none"> <li>Definitions, topography, types and Theories</li> <li>Psychometric assessments of personality</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum discussion</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		behavior.	<ul style="list-style-type: none"> <li>• Personality assessment: objective test, projective test/ subjective test.</li> <li>• Alternations in personality</li> <li>• Applications</li> </ul>		
<b>VI</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Explain the psychological assessment &amp; role of nurse.</li> </ul>	<b>Psychological assessment &amp; tests:</b> <ul style="list-style-type: none"> <li>• Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment i.e. VIQ, PIQ.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Demonstration</li> </ul>	
<b>VII</b>	<b>7</b>	<ul style="list-style-type: none"> <li>• Describe psychology of people during the life cycle.</li> </ul>	<b>Developmental Psychology:</b> <ul style="list-style-type: none"> <li>• Psychology of people at different ages from infancy to old age</li> <li>• Psychology of vulnerable individuals- challenged, women, sick etc</li> <li>• Psychology of groups</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Case Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>VIII</b>	<b>8</b>	<ul style="list-style-type: none"> <li>• Describe the characteristic of mentally healthy person.</li> <li>• Explain ego defense mechanisms.</li> </ul>	<b>Mental hygiene and mental Health:</b> <ul style="list-style-type: none"> <li>• Concepts of mental hygiene and mental health</li> <li>• Characteristics of mentally healthy person</li> <li>• Warning signs of poor mental health</li> <li>• Promotive and preventive mental health- strategies and services</li> <li>• Ego Defense mechanisms and implications</li> <li>• Personal and social adjustments</li> <li>• Guidance and counseling</li> <li>• Role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum discussion</li> <li>• Case Discussion</li> <li>• Role play</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

# ENGLISH

(College Level Examination)

Placement: First Year

Time: Theory – 60 Hours

## Scheme of examination

Paper	Subject	Duration	Max. Marks (Final Exam)
V	English	3 hours	75

## Question paper pattern

Essay type question: 3 x 10	= 30 Marks
Short Notes	: 5 x 5 = 25 Marks
Short Answer	: 20 x 1 = 20 Marks (MCQs, fill in blanks and matching)

**Note:** The appointment of examiner will be made by the Principal of the college concerned, keeping in mind the minimum eligibility criteria stipulated (i.e. Post graduate degree in the concerned subject and with a minimum of 3 years collegiate / university level teaching experience.)

**Course Description:** This course is designed to enable student to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in spoken and written English during clinical and classroom experiences.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Review basic grammar</li> </ul>	<ul style="list-style-type: none"> <li>• Tenses</li> <li>• Active passive</li> <li>• Direct Indirect</li> <li>• Prepositions</li> <li>• Articles</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Objective Type.</li> <li>• Short Answer Questions.</li> <li>• Assessment of Practice</li> </ul>
<b>II</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Develop Reading and comprehensive skills</li> </ul>	<ul style="list-style-type: none"> <li>• Unseen comprehensive passages</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Objective Type.</li> <li>• Short Answers.</li> <li>• Assessment of Practice</li> </ul>
<b>III</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Describe the various forms of composition</li> </ul>	<ul style="list-style-type: none"> <li>○ Letter writing</li> <li>○ Paragraph writing</li> <li>○ Précis writing</li> <li>○ Diary writing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Essay Type.</li> <li>• Short Answers</li> <li>• Assessment of Practice</li> </ul>
<b>IV</b>	<b>05</b>	<ul style="list-style-type: none"> <li>• Building Vocabulary</li> </ul>	<ul style="list-style-type: none"> <li>○ Words often confused</li> </ul>	<ul style="list-style-type: none"> <li>• Panel Discussion</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of Practice</li> </ul>
<b>V</b>	<b>05</b>	<ul style="list-style-type: none"> <li>• Develop skills in spoken English.</li> </ul>	<ul style="list-style-type: none"> <li>○ Spoken English                             <ul style="list-style-type: none"> <li>- Panel</li> <li>- Discussion</li> <li>- Debate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Extempore</li> <li>• Group discussion</li> <li>• Debates</li> </ul>

# COMPUTERS & NURSING INFROMATICS

(College Level Examination)

Placement: First Year

Time: 60 Hours

Theory- 30 hrs

Practical- 30 hrs

## Scheme of examination

Paper	Subject	Duration	Max. Marks (Final Exam)
VI	Computers & Nursing Informatics	2 hours	50

## Question paper pattern

Essay type question: 1 x 10 = 10 Marks
Short Notes : 4 x 5 = 20 Marks
MCQs : 20 x 1 = 20 Marks

**Note:** The appointment of examiner will be made by the Principal of the college concerned under intimation to the Dean (Examination)/ Controller of Examination , keeping in mind the minimum eligibility criteria stipulated (i.e Post graduate degree in the concerned subject and with a minimum of 3 years collegiate / university level teaching experience.)

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

Unit No.	Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment methods
	Th	Pr				
I	3	5	<ul style="list-style-type: none"> <li>Identify &amp; define various concepts used in computer.</li> </ul>	<b>Introduction:</b> <ul style="list-style-type: none"> <li>Concepts of Computer</li> <li>Characteristics and generation of Computers</li> <li>Basic Organization of Computer</li> <li>Hardware and soft ware: trends and technology</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion.</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Short answers.</li> <li>Objective type</li> </ul>
II	7	12	<ul style="list-style-type: none"> <li>Describe and Use the Disk Operating System.</li> <li>Demonstrate skill in the use of MS Office.</li> </ul>	<ul style="list-style-type: none"> <li><b>Introduction to disk operating system</b> <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- PowerPoint</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion.</li> <li>Demonstration</li> <li>Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>Short answers.</li> <li>Objective type.</li> <li>Practical Exam</li> </ul>
III	10	10	<ul style="list-style-type: none"> <li>Demonstrate skill in using multi-media.</li> <li>Identify features of</li> </ul>	<b>Uses of computers and applications</b> <ul style="list-style-type: none"> <li>Multimedia: Types &amp; uses of</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion.</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Short answers.</li> <li>Objective</li> </ul>

Unit No.	Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment methods
	Th	Pr				
			computer aided teaching and testing. <ul style="list-style-type: none"> <li>• Demonstrate various uses of computers in Nursing.</li> </ul>	computer in teaching & test. <ul style="list-style-type: none"> <li>• Uses of Internet &amp; E-mail</li> <li>• Statistical packages &amp; its uses</li> <li>• Applications of computer</li> <li>• Applications of computers in Nursing.</li> </ul>		type. <ul style="list-style-type: none"> <li>• Practical Exam and Viva Voce</li> </ul>
<b>IV</b>	10	3	<ul style="list-style-type: none"> <li>• Describe about Nursing Informatics.</li> <li>• Apply Nursing informatics in hospital and community.</li> </ul>	<b>Nursing Informatics</b> <ul style="list-style-type: none"> <li>• General purposes</li> <li>• Uses of computer in nursing practices</li> <li>• Patient Record System</li> <li>• Nursing Records &amp; Reports</li> <li>• Management information and evaluation system (MIES)</li> <li>• E- Nursing, Telemedicine, Telenursing.</li> <li>• Electronic medical records.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion.</li> <li>• Demonstration</li> <li>• Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers.</li> <li>• Objective type.</li> <li>• Practical Exam and Viva Voce</li> </ul>

# **B.Sc. (Hons) NURSING 2<sup>nd</sup> YEAR**

## MICROBIOLOGY

Placement: Second Year

Time: Total- 60 hrs  
(Theory-45+ Lab-15)

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
VIII	Microbiology	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
VIII	Microbiology	3 hours	75

### Question paper pattern

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

### Note:

An examiner / paper setter in the subject of Paper – V: Microbiology need to have a post graduate degree MD / M.Sc. in Medical Microbiology with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** This course is designed to enable students to acquire understanding of fundamentals of micro-biology & identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital & community settings.

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	5		<ul style="list-style-type: none"> <li>• Explain the importance of microbiology &amp; their importance in nursing.</li> <li>• Describe the various microbiological terms.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Introduction &amp; Historical background:</b> <ul style="list-style-type: none"> <li>➤ Importance of Medical Microbiology in diagnosis and prevention of infectious diseases. Explain the importance of microbiology in nursing. Contribution of Antony van Leeuwenhoeck, Pasteur, Lister, Robert Koch, Fleming, Jenner etc</li> </ul> </li> <li>• <b>Definition:</b> <ul style="list-style-type: none"> <li>➤ Medical Microbiology which includes the branches, Bacteriology, Virology, Mycology, Parasitology and Immunology. Infection,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				Pathogen, Commensal, Symbiosis, Host, Vector, Contagious Disease, Infectious disease, Epidemic, Endemic, Pandemic & Zoonosis, Flora of the human body. ➤ Source, Mode of infection, route of infection and spread, Endogenous and exogenous infection, reservoir of infection.		
II	6	2	<ul style="list-style-type: none"> <li>Describe the methods of infection control.</li> </ul>	<b>Infection Control</b> <ul style="list-style-type: none"> <li><b>Sterilization and Disinfection:</b> Definition of sterilization, Disinfection, Asepsis, Antisepsis, ubiquity of bacteria, Mode of killing microbes and preventing them. Enumeration of physical methods of sterilization which includes principles and their application. Details on working and efficacy, testing of Autoclave, Hot air oven, Inspissator and, Koch's steamer Concept of Central sterile supply Department (CSSD), Modes of action of chemical agents on microbes – Phenols, Halogens, Aldehydes, Acids, Alcohol, Heavy metals, Oxidizing agents and antiseptic policy. Universal Biosafety precautions. Occupational hazards of health care workers and control (post exposure prophylaxis-PEP)</li> <li><b>Chemotherapy:</b> Antimicrobial Susceptibility tests (disk diffusion test-Kirby- Bauer's method and Stoke's method.)</li> <li><b>Waste Disposal:</b> Definition of waste, Classification and disposal.</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Lab Demonstration</li> <li>Visit to CSSD</li> <li>Clinical practice</li> <li>Demonstration of hand hygiene</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
III	5	4	<ul style="list-style-type: none"> <li>Describe structure classification morphology, physiology, growth of bacteria &amp; its</li> </ul>	<b>General characteristics of Bacteria</b> <ul style="list-style-type: none"> <li><b>Morphology of Bacteria:</b> Bacterial cell, Morphological classification, method of studying of bacteria, staining methods and their principles,</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Lab Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
			<p>genetics.</p> <ul style="list-style-type: none"> <li>Identify micro-organisms.</li> </ul>	<p>especially Gram &amp; Ziehl Neelsen Staining their importance in presumptive diagnosis,</p> <ul style="list-style-type: none"> <li><b>Physiology of Bacteria:</b> Nutritional requirements, growth curve. Culture media: - Definition, Classification and application, Constituents of culture media.</li> <li><b>Identification of Bacteria:</b> Specimen collection-type of infection, nature of specimen, aseptic precautions to be taken while collecting the sample, Transportation and processing of specimen for microbiological diagnosis which includes culture methods, biochemical reactions and serological tests and animal pathogenicity.</li> <li><b>Bacterial Genetics:</b> Definition, Basic structure of DNA and Drug Resistance Mutation, Transduction, Transformation, Conjugation and R factor. Mechanisms of Drug resistance and Transfer of resistance.</li> <li><b>Normal Flora:</b> Introduction-various sites, types and role.</li> </ul>		
IV	5	2	<ul style="list-style-type: none"> <li>Describe the different disease producing bacteria.</li> </ul>	<p><b>Systemic Bacteriology</b> Morphology, Classification, Pathogenesis, Laboratory diagnosis, Prevention &amp; control, Treatment, National control and Eradication programme of:</p> <ul style="list-style-type: none"> <li>➤ Gram Positive Cocci – Staphylococcus/ Streptococcus/ Enterococcus/ Pneumococcus</li> <li>➤ Gram Negative Cocci - Neisseria.</li> <li>➤ Gram Positive Bacilli <ul style="list-style-type: none"> <li>• C. diphtheria</li> <li>• Mycobacterium tuberculosis</li> <li>• Atypical Mycobacteria, HIV and Mycobacteria.</li> <li>• M. leprae</li> </ul> </li> <li>➤ Cl. Welchii, Cl. Tetani and Cl. Botulinum</li> </ul>	<ul style="list-style-type: none"> <li>Lecture</li> <li>Discussion</li> <li>Lab</li> <li>Demonstration</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<ul style="list-style-type: none"> <li>➤ Enterobacteriaceae</li> <li>➤ Salmonella</li> <li>➤ Vibrio,</li> <li>➤ Pseudomonas</li> <li>➤ Spirochete</li> <li>➤ Rickettsiae, Chlamydia</li> <li>➤ Actinomycetes, Nocardia</li> <li>➤ Bacteriology of Air, Water, Milk and Food</li> </ul>		
V	3	1	<ul style="list-style-type: none"> <li>• Describe the different disease producing parasites.</li> </ul>	<p><b>Parasitology</b></p> <ul style="list-style-type: none"> <li>• Introduction: Parasite- their nature, classification, explanation of terminology, emerging parasitic infections.</li> <li>• Morphology, Classification, Pathogenesis, Laboratory diagnosis, Prevention &amp; control, Treatment &amp; Immunoprophylaxis of: <ul style="list-style-type: none"> <li>➤ E. histolytica</li> <li>➤ Malaria</li> <li>➤ Pathogenic Protozoa: Toxoplasma, Trichomonas vaginalis,</li> <li>➤ Cestodes : Taenia saginata and T. solium, Echinococcus granulosus</li> <li>➤ Intestinal Nematodes: E. vermicularis</li> <li>➤ Tissue Nematodes: W. bancrofti</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Lab</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
VI	2	1	<ul style="list-style-type: none"> <li>• Describe the different disease producing fungi.</li> </ul>	<p><b>Mycology</b></p> <ul style="list-style-type: none"> <li>• Introduction: Characterization of fungi Morphology and clinical classification of fungi.</li> <li>• Morphology, Classification, Pathogenesis &amp; Laboratory diagnosis of: <ul style="list-style-type: none"> <li>➤ Systemic mycosis</li> <li>➤ Subcutaneous mycosis: Mycetoma</li> <li>➤ Superficial Mycosis: Candida, Cryptococcus</li> </ul> </li> <li>• Opportunistic fungal Infection: Classification, Predisposing factors, Morphology of Aspergillus, Pneumocystis carinii</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Lab</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
VII	5	1	<ul style="list-style-type: none"> <li>• Describe the</li> </ul>	<b>Virology</b>	<ul style="list-style-type: none"> <li>• Lecture</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
			different disease producing viruses.	<ul style="list-style-type: none"> <li>• Introduction: Morphology, multiplication classification of viruses, Bacteriophage - Laboratory diagnosis of viral infections, Collection of samples, transport, cultivation and method of diagnosis.</li> <li>• Morphology, Classification, Pathogenesis, Laboratory diagnosis, Prevention &amp; control, Treatment &amp; Immunoprophylaxis of: <ul style="list-style-type: none"> <li>➤ Herpes Viruses</li> <li>➤ Hepatitis Viruses</li> <li>➤ Picorna Viruses: Immunoprophylaxis of poliomyelitis</li> <li>➤ Orthomyxo Viruses: Antigenic variation in influenza virus with relevance to vaccine efficacy</li> <li>➤ Paramyxo Viruses: measles, mumps and rubella</li> <li>➤ Arboviruses: List of arboviruses prevalent in India, Dengue, KFD, Japanese encephalitis</li> <li>➤ Rhabdoviruses: Antirabies vaccines</li> <li>➤ Retroviruses</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Discussion</li> <li>• Lab Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
VIII	8	4	<ul style="list-style-type: none"> <li>• Explain the concept of immunity, hyper-sensitivity &amp; immunization</li> </ul>	<p><b>Immunology</b></p> <ul style="list-style-type: none"> <li>• Introduction: Definition of immunity, types of immunity, factors responsible, Mechanism of innate immunity, Active and passive immunity, local Immunity and can add note on herd immunity.</li> <li>• Antigens: Definition, types, antigen determinants, properties of antigen.</li> <li>• Antibodies: Definition nature, structure of immunoglobulin – immunoglobulin classes, Physical and biological properties of immunoglobulin.</li> <li>• Serological Reactions: Definition of titre, sensitivity and specificity, prozone phenomenon, Principles, Types</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Lab Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<p>and application of precipitation, Gel diffusion, Agglutination, Complement fixation, ELISA, RIA, immunofluorescent Test, neutralization and opsonization.</p> <ul style="list-style-type: none"> <li>• Structure and function of Immune System: Primary lymphoid organs, Secondary lymphoid organs, Cells of immune system, lymphocytes, T cells, B cells, Null cells, Antigen presenting cells (APC).</li> <li>• Immune Response: Humoral, CMI</li> <li>• Complement: Definition, Components, and biological functions.</li> <li>• Hypersensitivity: Definition, Classification Difference between immediate and delayed reactions, mechanism and manifestation of anaphylaxis, types and tests for anaphylaxis.</li> <li>• Vaccination: Principles of immunization, classification, National Immunization Programme, Immunoprophylaxis, Nature of vaccines, rationale and dosage storage, handling &amp; cold chain. Future Vaccines.</li> </ul>		
<b>IX</b>	<b>6</b>		<ul style="list-style-type: none"> <li>• Explain the various disease conditions related to microbiology .</li> <li>• Identify the role of nurse in hospital infections.</li> <li>• Explain the process of investigating an outbreak</li> </ul>	<p><b>Applied Microbiology</b></p> <ul style="list-style-type: none"> <li>• Gastrointestinal infections (Diarrhea and Dysentery) and their laboratory diagnosis.</li> <li>• Upper Respiratory tract infections (Patch and sore throat) and their laboratory diagnosis.</li> <li>• Lower Respiratory Tract infections (Pneumonia, Bronchitis, Bronchiolitis etc.) and their laboratory diagnosis.</li> <li>• Urinary tract infection and their laboratory diagnosis.</li> <li>• Infection of Central Nervous System (Meningitis,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<p>Encephalitis, Brain abscess) and their laboratory diagnosis.</p> <ul style="list-style-type: none"> <li>• Pyrexia of unknown origin, organisms and their laboratory diagnosis.</li> <li>• Sexually transmitted disease and their laboratory diagnosis.</li> <li>• Hospital infections - definition, classification, type of infection, laboratory diagnosis, hospital infection control committee - role of nurse, protocol, collection of samples, preparation of report and status of rate of infection in the unit/ hospital, nurse's accountability, continuing education etc.</li> <li>• Microbiological investigation of an outbreak.</li> </ul>		

# PHARMACOLOGY

**Placement: Second Year**

**Time: Theory – 60 Hours**

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration	Max. Marks (Final Exam)
IX	Pharmacology	3 hr	75

**Question paper pattern**

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

**Note:**

An examiner / paper setter in the subject of Paper –X (Section: A) Pharmacology need to have a post graduate degree MD / MSc in Pharmacology with 3 years of collegiate / university level teaching experience.

**Course Description:** This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics, Principles of Therapeutics & nursing implications.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Describe Pharmacodynamics, Pharmacokinetics, Classification, Principles of Administration of Drugs.</li> </ul>	<p><b>Introduction to pharmacology</b></p> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Branches, Nature &amp; Sources</li> <li>• Terminology Used.</li> <li>• Types: Classification</li> <li>• Abbreviations, Prescription, Drug Calculation, Weights and Measures.</li> <li>• Dosage Forms.</li> <li>• Pharmacodynamics: Actions, Drug Antagonism, Synergism, Tolerance, Receptors, Therapeutic, adverse, Toxic effects.</li> <li>• Pharmacokinetics: Absorption, Bioavailability, Distribution, Metabolism, Interaction, Excretion</li> <li>• Review: Factor Modifying Dose, Route and Principles of Administration of Drugs</li> <li>• Indian Pharmacopoeia: Legal Issues, Drug Laws, Schedule Drugs.</li> <li>• Rational Use of Drugs</li> <li>• Principles of Therapeutics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>
<b>II</b>	<b>8</b>	<ul style="list-style-type: none"> <li>• Explain chemotherapy of</li> </ul>	<p><b>Chemotherapy</b></p> <ul style="list-style-type: none"> <li>• General Principles of use of</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		specific infections & infestations & nurse's responsibilities	antimicrobials, etc. <ul style="list-style-type: none"> <li>Pharmacology of commonly used drugs Penicillin, Cephalosporin's, Amino glycosides, Macrolide &amp; broad spectrum antibiotics, Sulfonamides quinolones, others. Antimicrobials, Anaerobic infections, Antimalarials, Anthelmintics, Anti scabies agents, Antiviral, Antifungal agents, Antitubercular drugs, Anti leprosy drugs, Anticancer drugs, Immuno-suppressants and Immunostimulants.</li> <li>Composition, action, dosage, route, indications, contraindications, Drug Interactions, side effects, adverse effects toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>Drug study/ presentation</li> </ul>	question <ul style="list-style-type: none"> <li>Short notes</li> <li>Short answer</li> </ul>
III	4	<ul style="list-style-type: none"> <li>Describe antiseptics, disinfectant &amp; insecticides &amp; nurse's responsibilities</li> </ul>	<b>Pharmacology of common used antiseptics, disinfectant and insecticides</b> <ul style="list-style-type: none"> <li>Antiseptics;</li> <li>Composition, action, dosage, route, indications, contraindications, Drug Interactions, side effects, adverse effects toxicity and role of nurse               <ul style="list-style-type: none"> <li>Disinfectants</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
IV	5	<ul style="list-style-type: none"> <li>Describe drugs acting on gastro-intestinal system &amp; nurse's responsibilities</li> </ul>	<b>Drugs acting on G.I system</b> <ul style="list-style-type: none"> <li>Pharmacology of commonly used               <ul style="list-style-type: none"> <li>Antiemetics</li> <li>Emetics</li> <li>Purgatives</li> <li>Antacids and antipeptic ulcer drugs</li> <li>Cholinergic</li> <li>Anticholinergics</li> <li>Fluid and electrolyte therapy</li> <li>Anti diarrhoeals</li> <li>Histamines</li> </ul> </li> <li>Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
V	5	<ul style="list-style-type: none"> <li>Describe drugs acting on respiratory system &amp; nurse's responsibilities</li> </ul>	<b>Drugs used on respiratory systems</b> <ul style="list-style-type: none"> <li>Pharmacology of commonly used               <ul style="list-style-type: none"> <li>Antiasthmatics</li> <li>Mucolytics</li> <li>Decongestants</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Expectorants</li> <li>○ Antitussives</li> <li>○ Bronchodilators</li> <li>○ Broncho constrictors</li> <li>○ Antihistamines</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects toxicity and role of nurse</p>		<ul style="list-style-type: none"> <li>● Short answer</li> </ul>
VI	4	<ul style="list-style-type: none"> <li>● Describe drugs acting on urinary system &amp; nurse's responsibilities</li> </ul>	<p><b>Drugs used on urinary system</b></p> <ul style="list-style-type: none"> <li>● Pharmacology of commonly used <ul style="list-style-type: none"> <li>- diuretics and antidiuretics, urinary antiseptics</li> <li>- cholinergic and anticholinergics</li> <li>- acidifiers and alkalinizers</li> <li>- drugs toxic to kidney</li> </ul> </li> </ul> <p>Composition, action, dosage, route, indications, contraindications, Drug Interactions, side effects, adverse effects toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>
VII	4	<ul style="list-style-type: none"> <li>● Describe drugs used in deaddiction, emergency, deficiency of vitamins &amp; minerals, poisoning, for immunization &amp; immune-suppression &amp; nurse's responsibilities</li> </ul>	<p><b>Miscellaneous</b></p> <ul style="list-style-type: none"> <li>● Drugs used in deaddiction</li> <li>● Drugs used in CPR and emergency</li> <li>● Vitamins and minerals</li> <li>● Immunosuppressant</li> <li>● Antidotes</li> <li>● Vaccines &amp; sera (immunization schedules, general principles of treatment of poisoning, antidotes, treatment of snake bite poisoning, &amp; antivenom)</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>
VIII	2	<ul style="list-style-type: none"> <li>● Describe drugs skin &amp; mucous membranes &amp; nurse's responsibilities</li> </ul>	<p><b>Drugs used on skin and mucous membranes</b></p> <ul style="list-style-type: none"> <li>● Topical applications for skin eye, ear, nose and buccal, cavity</li> <li>● Antipruritics</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>
IX	8	<ul style="list-style-type: none"> <li>● Describe drugs used on nervous system &amp; nurse's responsibilities</li> </ul>	<p><b>Drugs acting on nervous system</b></p> <ul style="list-style-type: none"> <li>● Basis &amp; applied pharmacology of commonly used:</li> <li>● Analgesics and anaesthetics <ul style="list-style-type: none"> <li>▪ Analgesics</li> </ul> </li> <li>- Non steroidal anti-inflammatory(NSAID)drugs <ul style="list-style-type: none"> <li>▪ Antipyretics</li> <li>▪ Hypnotics and sedatives</li> </ul> </li> <li>- Hypnotics and sedatives</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>- Opioids &amp; Non Opioids</li> <li>- Tranquilizers</li> <li>- General (techniques of GA, pre anesthetic medication) &amp; local anesthetics</li> <li>- Gases: local anesthetics</li> <li>Gases: oxygen, nitrous, oxide, carbon-dioxide &amp; others</li> <li>• Cholinergic and anti-cholinergic: <ul style="list-style-type: none"> <li>▪ Muscle relaxants</li> <li>▪ Major tranquilizers</li> <li>▪ Anti psychotics</li> <li>▪ Antidepressants</li> <li>▪ Anti Anxiety Drugs</li> <li>▪ Anticonvulsants</li> <li>▪ Adrenergic</li> <li>▪ Nor-adrenergics</li> <li>▪ Mood stabilizers</li> <li>▪ Acetylcholine</li> <li>▪ Stimulants ethyl alcohol and treatment of methyl alcohol poisoning</li> <li>▪ Drugs used in Parkinsonism &amp; miscellaneous drugs</li> </ul> </li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects toxicity and role of nurse</p>		
X	5	<ul style="list-style-type: none"> <li>• Describe drugs used on cardiovascular system &amp; nurse's responsibilities</li> </ul>	<p><b>Cardiovascular drugs</b></p> <ul style="list-style-type: none"> <li>• Haematinics, &amp; treatment of anemia</li> <li>• Cardiotonics</li> <li>• Anti anginals &amp; Antiarrhythmics</li> <li>• Anti hypertensive &amp; vasodilators</li> <li>• Coagulants &amp; Anticoagulants</li> <li>• Antiplatelets &amp; thrombolytics</li> <li>• Hypolipidemics</li> <li>• Plasma expanders &amp; treatment of shock</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects toxicity and role of nurse</p>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>
XI	4	<ul style="list-style-type: none"> <li>• Describe drugs used for hormonal disorder &amp; supplementation, contraception &amp; medical termination of</li> </ul>	<p><b>Drugs used for hormonal, disorders and supplementation, contraception And medical termination of pregnancy</b></p> <ul style="list-style-type: none"> <li>• Insulin's &amp; oral hypoglycemic</li> <li>• Thyroid supplements and suppressants</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		pregnancy & nurse's responsibilities	<ul style="list-style-type: none"> <li>• Steroids, anabolics</li> <li>• Uterine stimulants and relaxants</li> <li>• Oral contraceptives</li> <li>• Other estrogen progesterone preparations</li> <li>• Corticotrophin &amp; gonadotropines</li> <li>• Adrenaline</li> <li>• Prostaglandins</li> <li>• Calcitonin, parathormone, vit. D3, calcium metabolism.</li> <li>• Calcium salts</li> <li>• Calcium regulators</li> </ul> <p>Composition ,actions dosage route indications contraindications, drugs interactions, side effects, adverse effects, adverse effects, toxicity and role of nurse</p>		
<b>XII</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Demonstrate awareness of common drugs used in alternative system of medicine.</li> </ul>	<p><b>Introduction to drugs used in alternative systems of medicine:</b> Ayurveda, homeopathy, homeopathy, unani and siddha etc. Role of Nurse in alternative system of medicine.</p>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Observational visit</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

# PATHOLOGY & GENETICS

**Placement: Second Year**

**Time: Theory – 40 + 20 Hours**

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration	Max. Marks (Final Exam)
X	Pathology & Genetics	3 hr	75

## Section-A: PATHOLOGY

**Placement: Second Year**

**Time: Theory – 40**

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration	Max. Marks (Final Exam)
X Section-A	Pathology	1 ½ hr	45

**Question paper pattern**

Essay type question: 1x 10 = 10 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 10 x 1 = 10 Marks

**Note:**

An examiner / paper setter in the subject of paper section-A: Pathology need to have a post graduate degree in Pathology / Post graduate degree in Medical-Surgical Nursing with minimum of 3 years collegiate / university level teaching experience.

**Course Description:** This course is designed to enable students to acquire knowledge of Pathology of various disease conditions & apply this knowledge in practice of nursing.

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Method
	Th.	Pr.				
I	5		<ul style="list-style-type: none"> <li>• Define the common terms use in pathology.</li> <li>• Appreciate the deviations from normal to abnormal structure and functions of the body system</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Introduction</b> <ul style="list-style-type: none"> <li>○ Importance of the study of pathology</li> <li>○ Definition of terms</li> <li>○ Methods and techniques</li> <li>○ Cellular and tissue changes</li> <li>○ Infiltration and regeneration</li> <li>○ Inflammations and infections</li> <li>○ Wound healing</li> <li>○ Vascular changes</li> </ul> </li> <li>Cellular growth, Neoplasms</li> <li>○ Normal and Cancer cell</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Method
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>○ Benign and Malignant growths</li> <li>○ In situ carcinoma</li> <li>● Disturbances of fluid and electrolyte imbalance</li> <li>● Immunity &amp; its types</li> <li>● Introduction to autoimmune diseases</li> </ul>		
<b>II</b>	<b>15</b>	<b>5</b>	<ul style="list-style-type: none"> <li>● Explain Pathological changes in disease conditions of various systems</li> </ul>	<p><b>Special pathology</b></p> <ul style="list-style-type: none"> <li>● Pathological changes in disease conditions of various systems:</li> <li>● Respiratory tract <ul style="list-style-type: none"> <li>○ Tuberculosis, Bronchitis, Pleural effusion and pneumonia,</li> <li>○ Lung abscess, emphysema, bronchiectasis</li> <li>○ Bronchial asthma, Chronic obstructive Pulmonary disease &amp; tumours</li> </ul> </li> <li>● Cardio-vascular system <ul style="list-style-type: none"> <li>○ Pericardial effusion</li> <li>○ Rheumatic heart disease</li> <li>○ Infective endocarditis, atherosclerosis</li> <li>○ Ischemia, infarction &amp; aneurysm</li> </ul> </li> <li>● Blood Disorders <ul style="list-style-type: none"> <li>○ Anemia and its types</li> <li>○ Leukemia and its types</li> <li>○ Bleeding disorders</li> </ul> </li> <li>● Gastro Intestinal Tract <ul style="list-style-type: none"> <li>○ Peptic ulcer, typhoid</li> <li>○ Carcinoma of GI tract buccal, Esophageal ,</li> <li>○ Gastric &amp; intestinal</li> </ul> </li> <li>● Liver, Gall bladder &amp; pancreas <ul style="list-style-type: none"> <li>○ Hepatitis, Chronic liver abscess, cirrhosis</li> <li>○ Tumours of liver, gall bladder and pancreas,</li> <li>○ Cholecystitis</li> </ul> </li> <li>● Kidneys &amp; Urinary tract <ul style="list-style-type: none"> <li>○ Glomerulonephritis, pyelonephritis,</li> <li>○ Calculi, renal failure, renal carcinoma &amp; cystitis</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Seminar</li> <li>● Explain using charts, slides, specimen, X-rays &amp; scans</li> <li>● Observation visit to pathology lab</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answers</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Method
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>• Male genital systems <ul style="list-style-type: none"> <li>○ Cryptorchidism, testicular atrophy</li> <li>○ Prostatic hyperplasia, carcinoma Penis &amp; prostate</li> </ul> </li> <li>• Female genital system <ul style="list-style-type: none"> <li>○ Fibroids</li> <li>○ Carcinoma cervix and Endometrium</li> <li>○ Vesicular mole, choriocarcinoma</li> <li>○ Ectopic gestation</li> <li>○ Ovarian cyst &amp; tumours</li> </ul> </li> <li>• Cancer Breast</li> <li>• Central Nervous system <ul style="list-style-type: none"> <li>○ Hydrocephalus, Meningitis, encephalitis,</li> <li>○ Vascular disorders – thrombosis, embolism</li> <li>○ Stroke, paraplegia, quadriplegia</li> <li>○ Tumours, meningiomas – gliomas</li> </ul> </li> <li>• Metastatic tumour</li> <li>• Skeletal system <ul style="list-style-type: none"> <li>○ Bone healing, osteoporosis, osteomyelitis</li> </ul> </li> <li>• Arthritis &amp; tumours</li> </ul>		
<b>III</b>	<b>5</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Describe various laboratory tests in assessment and monitoring of disease conditions</li> </ul>	<p><b>Clinical pathology</b></p> <ul style="list-style-type: none"> <li>• Various blood and bone marrow tests in assessment and monitoring of disease conditions <ul style="list-style-type: none"> <li>○ Hemoglobin</li> <li>○ RBC, White cell &amp; platelet counts</li> <li>○ Bleeding time, clotting time and prothrombin time</li> <li>○ Blood grouping and cross matching</li> <li>○ Blood chemistry</li> <li>○ Blood culture</li> <li>○ Serological and immunological tests</li> <li>○ Other blood test</li> <li>○ Examination of Bone marrow</li> <li>○ Methods of collection of blood specimen for various clinical</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Demonstration</li> <li>• Observational visit to clinical pathology &amp; blood bank.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Method
	Th.	Pr.				
				pathology, biochemistry, microbiology tests, inference and normal values		
IV	3	1	<ul style="list-style-type: none"> <li>Describe the laboratory tests for examination of body cavity fluid, transudates and exudates</li> </ul>	<p><b>Examination of body cavity fluids, transudates and exudates</b></p> <ul style="list-style-type: none"> <li>The laboratories tests used in CSF analysis</li> <li>Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge etc</li> <li>Analysis of gastric and duodenal contents</li> <li>Analysis of semen sperm count, motility and morphology and their importance in infertility</li> <li>Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Seminar</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answers</li> </ul>
V	2	1	<ul style="list-style-type: none"> <li>Describe the laboratory tests for examination of urine and faeces</li> </ul>	<p><b>Urine and faeces</b></p> <ul style="list-style-type: none"> <li>Urine <ul style="list-style-type: none"> <li>Physical characteristics</li> <li>Analysis</li> <li>Culture and sensitivity</li> </ul> </li> <li>Faeces <ul style="list-style-type: none"> <li>Characteristics</li> <li>Stool examination: occult blood, ova, parasite and cyst, reducing substance etc.</li> </ul> </li> <li>Methods of collection for various tests, inference and normal values</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Seminar</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answers</li> </ul>

## Section – B: Genetics

Placement: Second Year

Time: Theory – 20 Hours

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
X Section-B	Genetics	1 ½ hr	30

### Question paper pattern

Essay type question : 1x 7	= 7 Marks
Short Notes : 3 x 5	= 15 Marks
MCQs : 8 x 1	= 8 Marks

### Note:

An examiner / paper setter in Section-B: Genetics need to have a post graduate degree in Anatomy /Human Genetics/Post graduate degree in Medical-Surgical Nursing with minimum of 3 years collegiate / university level teaching experience.

**Course Description: This course is designed to enable students to acquire understanding of genetics, its role in causation & management of defects and diseases.**

Unit No.	Time (Hrs)	Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Explain nature, principles &amp; perspectives of heredity</li> </ul>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Concept and basics of genetics</li> <li>• Practical application of genetics in Nursing</li> <li>• Impact of genetics condition on families</li> <li>• Review of cellular division mitosis and meiosis</li> <li>• Characteristics and structure of genes</li> <li>• Chromosomes – sex determination</li> <li>• Chromosomal aberrations</li> <li>Patterns of inheritance                             <ul style="list-style-type: none"> <li>○ Mendelian theory of inheritance</li> <li>○ Multiple alleles and blood groups</li> <li>○ Sex linked inheritance</li> <li>○ Mechanism of inheritance</li> <li>○ Errors in transmission (Mutations)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>
<b>II</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Explain maternal, prenatal &amp; genetic influences</li> </ul>	<p><b>Maternal, prenatal and genetics</b></p> <ul style="list-style-type: none"> <li>• Conditions affecting the mother: genetics and infections</li> <li>• Consanguinity atopy</li> <li>• Prenatal nutrition and food</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short</li> </ul>

Unit No.	Time (Hrs)	Objectives	Content	Teaching Learning Activities	Assessment Methods
		on development of defects & diseases	<p>allergies.</p> <ul style="list-style-type: none"> <li>• Maternal age</li> <li>• Maternal drug therapy</li> <li>• Prenatal testing and diagnosis</li> <li>• Effects of radiation, drugs and chemicals</li> <li>• Infertility</li> <li>• Spontaneous abortion</li> <li>• Neural tube defects</li> <li>• Down syndrome (Trisomy 21)</li> </ul>		answers
III	3	<ul style="list-style-type: none"> <li>• Explain the screening methods for genetic defects &amp; diseases in neonates &amp; children.</li> </ul>	<p><b>Genetic testing in the neonates and children</b></p> <ul style="list-style-type: none"> <li>• Meaning &amp; purposes</li> <li>• Newborn screening</li> <li>• Genetic testing and screening in children</li> <li>• Screening for: <ul style="list-style-type: none"> <li>○ Congenital abnormalities</li> <li>○ Developmental delay</li> <li>○ Dysmorphism</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>
IV	3	<ul style="list-style-type: none"> <li>• Identify genetic disorders in adolescents &amp; adults.</li> </ul>	<p><b>Genetic conditions of adolescents and adults</b></p> <ul style="list-style-type: none"> <li>• Cancer genetics – familial cancer</li> <li>• Inborn errors of metabolism</li> <li>• Blood group alleles and hematological disorder</li> <li>• Genetic haemochromatosis</li> <li>• Huntington's disease</li> <li>• Mental illness</li> <li>• Therapeutic approach for genetic disorders</li> <li>• Nursing management in genetic disorders</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>
V	5	<ul style="list-style-type: none"> <li>• Describe the role of nurse in genetic services &amp; counselling.</li> </ul>	<p><b>Services related to Genetics</b></p> <ul style="list-style-type: none"> <li>• Genetics testing</li> <li>• Human genome project</li> <li>• Gene therapy</li> <li>• The Eugenics movement</li> <li>• Genetic Counseling</li> <li>• Role of nurse in genetic counseling</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>

# MEDICAL – SURGICAL NURSING– I

Placement: Second Year

Time: Theory- 215 Hours  
Practical/ Clinical- 720 Hours

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
XI	Medical Surgical Nursing– I	25	75	100

## Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XI	Medical Surgical Nursing – I	3 hours	75

## Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

## Note:

An examiner / paper setter in the subject of Paper – IX Medical Surgical Nursing- I need to be MSc.Nursing with Medical Surgical Nursing specialty & with 3 years of collegiate teaching experience.

**Course Description:** The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	15	<ul style="list-style-type: none"> <li>Appreciate the trends in medical and surgical nursing.</li> <li>Describe the role of a nurse in caring for adult patient in hospital and community.</li> <li>Describe the concepts of Medical Surgical asepsis.</li> </ul>	<b>Introduction :</b> <ul style="list-style-type: none"> <li>Introduction to medical surgical nursing.</li> <li>Historical development s of medical and surgical nursing</li> <li>Current status of health and disease burden in India.</li> <li>Theory of Health and illness.</li> <li>International classification of disease.</li> <li>Holistic aspects of Healthcare by applying nursing process.</li> <li>Role of nurse, patient and family in care of adult patient.</li> <li>Role and responsibilities of a nurse in medical surgical settings:                             <ul style="list-style-type: none"> <li>Outpatient department</li> <li>In-patient department</li> <li>Intensive care unit</li> <li>Perioperative Nursing care.</li> <li>Pre-operative</li> <li>Intraoperative</li> <li>Postoperative</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
II	15	<ul style="list-style-type: none"> <li>Describe the common signs,</li> </ul>	<b>Common signs and symptoms and management:</b> <ul style="list-style-type: none"> <li>Fluid and electrolyte imbalance</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Seminar</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		symptoms, problems and their specific nursing interventions.	<ul style="list-style-type: none"> <li>• Vomiting</li> <li>• Dyspnea and cough, respiratory obstruction</li> <li>• Fever</li> <li>• Shock</li> <li>• Unconsciousness, syncope</li> <li>• Pain</li> <li>• Incontinence</li> <li>• Edema</li> <li>• Inflammation and Wound healing.</li> <li>• Sleep disorder.</li> <li>• Age related problems- geriatric</li> </ul>	<ul style="list-style-type: none"> <li>• Case Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short notes</li> <li>• Short answer</li> </ul>
<b>III</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Describe the etiology, Pathophysiology, clinical manifestations , diagnostic measures and management of patients with disorders of respiratory systems.</li> </ul>	<p><b>Nursing management of patients with respiratory problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of respiratory system</li> <li>• Nursing assessment- History and physical assessment</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures). <ul style="list-style-type: none"> <li>❖ Lower Respiratory tract <ul style="list-style-type: none"> <li>➤ Asthma</li> <li>➤ Bronchitis</li> <li>➤ COPD</li> <li>➤ Bronchiectasis</li> <li>➤ Atelectasis</li> <li>➤ Pneumonia</li> <li>➤ Pulmonary Tuberculosis</li> <li>➤ Lung Abscess</li> <li>➤ Pleural Effusion</li> <li>➤ Pulmonary edema</li> <li>➤ Pulmonary Embolism</li> <li>➤ Pulmonary Hypertension</li> <li>➤ Chest injuries</li> <li>➤ Lung Tumors</li> <li>➤ Acute Respiratory Failure</li> <li>➤ Adult Respiratory Distress Syndrome</li> <li>➤ Interstitial lung disease</li> <li>➤ Sarcoidosis</li> <li>➤ Occupational lung Disease</li> <li>➤ Congenital Disorders</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> <li>• Seminar/ Case Discussion</li> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Health Education</li> <li>• Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
IV	30	<ul style="list-style-type: none"> <li>Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of digestive systems.</li> </ul>	<p><b>Nursing management of patients with disorders of digestive system</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of digestive system</li> <li>Nursing assessment- History and physical assessment</li> <li>Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures). <ul style="list-style-type: none"> <li><b>Oral cavity-</b> Cheilitis, Stomatitis, Oral Cancer, Gingivitis, Parotiditis</li> <li><b>Oesophagus-</b> inflammation, obstruction, hiatal hernia, bleeding and tumours</li> <li><b>Stomach and duodenum-</b>gastritis, peptic ulcer, GI bleeding, Gastric cancer, pyloric stenosis</li> <li><b>Intestinal disorders-</b> <ul style="list-style-type: none"> <li>Malabsorption</li> <li>Gastro enteritis and Dysentery</li> <li>Protozoal Infection</li> <li>Appendicitis</li> <li>Peritonitis</li> <li>Inflammatory Bowel Disease</li> <li>Cancer of the small Bowel</li> <li>Colon Cancer</li> <li>Herniations</li> <li>Diverticular Disorders</li> <li>Obstruction</li> <li>Irritable bowel Syndrome</li> </ul> </li> <li><b>Anal and Rectum:</b> <ul style="list-style-type: none"> <li>Hemorrhoids</li> <li>Pilonidal cyst</li> <li>Fissure</li> <li>Fistula</li> <li>Rectal Abscess</li> <li>Tumors of the Rectum</li> </ul> </li> <li>Abdominal Trauma</li> <li>Congenital Disorders</li> <li><b>Pancreas;</b> Pancreatitis, cysts, abscess and tumours</li> <li><b>Liver:</b> Hepatitis, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours</li> <li><b>Gall bladder:</b> Cholecystitis, Cholelithiasis, obstruction and tumours</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised clinical practice</li> <li>Explain using charts, graph.</li> <li>Models, films &amp; slides</li> <li>Health Education</li> <li>Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
V	20	<ul style="list-style-type: none"> <li>Describe the</li> </ul>	<b>Nursing management of patients with</b>	<ul style="list-style-type: none"> <li>Lecture cum</li> </ul>	<ul style="list-style-type: none"> <li>Essay</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		<p>etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with cardiovascular problems.</p> <ul style="list-style-type: none"> <li>Describe the vascular conditions and its nursing management.</li> </ul>	<p><b>cardiovascular problems</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of cardiovascular system</li> <li>Nursing assessment- History and Physical assessment</li> <li>Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</li> <li>Vascular system <ul style="list-style-type: none"> <li>Hypertension</li> <li>Aneurysms</li> <li>Peripheral vascular disorders <ul style="list-style-type: none"> <li>Raynaud's disease</li> <li>Thromboangitis Obliterans</li> <li>Venous insufficiency</li> <li>Varicose veins</li> </ul> </li> </ul> </li> </ul> <p><b>Heart</b></p> <ul style="list-style-type: none"> <li>Coronary artery diseases <ul style="list-style-type: none"> <li>Ischemic Heart Disease</li> <li>Coronary atherosclerosis</li> <li>Angina pectoris</li> <li>Myocardial infarction</li> </ul> </li> <li>Valvular disorders of the heart <ul style="list-style-type: none"> <li>Congenital and acquired</li> <li>Rheumatic Heart diseases</li> </ul> </li> <li>Endocarditis, pericarditis and myocarditis</li> <li>Cardio Myopathies</li> <li>Cardiac dysrhythmias, Heart Block</li> <li>Congestive cardiac failure <ul style="list-style-type: none"> <li>Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade</li> </ul> </li> <li>Cardiac arrest</li> <li>Basic Life Support: Advanced Cardiac Life Support</li> </ul>	<p>Discussion</p> <ul style="list-style-type: none"> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised clinical practice</li> <li>Explain using charts, graph.</li> <li>Models, films &amp; slides</li> <li>Health Education</li> <li>Drug book/ Presentation</li> <li>Counselling</li> </ul>	<p>type question</p> <ul style="list-style-type: none"> <li>Short notes</li> <li>Short answer</li> </ul>
VI	10	<ul style="list-style-type: none"> <li>Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with haematologic problems.</li> </ul>	<p><b>Nursing management of patients with haematologic problems</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of haematologic system</li> <li>Nursing assessment- History and Physical assessment</li> <li>Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised clinical practice</li> <li>Explain using charts, graph.</li> <li>Models, films &amp; slides</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Anemias</li> <li>○ Polycythemia</li> <li>○ Disorders of clotting factor defects and platelets defects</li> <li>○ Disorders of White Blood cells</li> <li>○ Disorders of the lymphoidal system</li> <li>○ Coagulation disorders</li> <li>○ Congenital disorders</li> <li>○ Blood transfusion</li> <li>○ Blood bank functioning and hospital transfusion committee. Bio-safety and waste management in relation to blood transfusion</li> <li>○ Bone marrow transplantation</li> <li>○ Gene therapy in Haematological conditions</li> <li>○ Role of a nurse in Organ donation, retrieval and banking.</li> </ul>	<ul style="list-style-type: none"> <li>● Health Education</li> <li>● Drug book/ Presentation</li> <li>● Visit to blood bank</li> <li>● Participation in blood donation camp</li> <li>● Counselling</li> </ul>	
VII	15	<ul style="list-style-type: none"> <li>● Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of genito-urinary system.</li> </ul>	<p><b>Nursing management of patients with genito-urinary problems</b></p> <ul style="list-style-type: none"> <li>● Review of anatomy and physiology of genito-urinary system</li> <li>● Nursing Assessment- History and Physical Assessment</li> <li>● Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures). <ul style="list-style-type: none"> <li>❖ <b>Urological obstructions</b> <ul style="list-style-type: none"> <li>➤ Urethral strictures</li> <li>➤ Renal calculi</li> <li>➤ Nephrosis</li> <li>➤ Benign prostrate hypertrophy</li> </ul> </li> <li>▪ <b>Disorders of Kidney</b> <ul style="list-style-type: none"> <li>❖ Glomerulonephritis</li> <li>❖ Nephrotic syndrome</li> <li>❖ Nephrosis</li> <li>❖ Acute renal failure</li> <li>❖ Chronic renal failure</li> <li>❖ End stage renal disease</li> <li>❖ Dialysis, renal transplant</li> <li>❖ Cancer of Kidney</li> <li>❖ Congenital disorders</li> </ul> </li> <li>▪ <b>Disorders of ureter, urinary bladder and urethra-</b> <ul style="list-style-type: none"> <li>○ Urinary Tract Infection</li> <li>○ Cystitis</li> <li>○ Urinary Inconence</li> <li>○ Urinary Retention</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice Session</li> <li>● Supervised clinical practice</li> <li>● Explain using charts, graph.</li> <li>● Models, films &amp; slides</li> <li>● Health Education</li> <li>● Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Urinary Reflux</li> <li>○ Bladder Neoplasm</li> <li>○ Urinary Bladder Calculi</li> <li>○ Urethritis</li> <li>○ Urethral Tumors</li> <li>○ Ureteritis</li> <li>○ Ureteral Calculi</li> <li>○ Trauma of Ureter, Bladder, Urethra</li> <li>○ Neoplasms of Ureter, Bladder, Urethra</li> <li>○ Congenital Disorders of Ureter, Bladder, Urethra</li> </ul>		
<b>VIII</b>	<b>10</b>	<ul style="list-style-type: none"> <li>● Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of male reproductive system.</li> </ul>	<p><b>Nursing management of disorders of male reproductive system</b></p> <ul style="list-style-type: none"> <li>● Review of anatomy and physiology of male reproductive system</li> <li>● Nursing Assessment – History and physical assessment</li> <li>● Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management (Nursing process including nursing procedures).</li> <li>● Prostate Disorders <ul style="list-style-type: none"> <li>○ Benign Prostate Hypertrophy</li> <li>○ Prostate Cancer</li> <li>○ Prostatitis</li> </ul> </li> <li>● Infections of Testes, Penis and Scrotum</li> <li>● Injury of Penis and Scrotum</li> <li>● Disorders of Reproductive Ducts</li> <li>● Disorders of seminal vesicle</li> <li>● Tumors</li> <li>● Congenital Malformations</li> <li>● Erectile Dysfunctions</li> <li>● Infertility</li> <li>● Breast; gynecomastia, tumour</li> <li>● Climacteric changes</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice Session</li> <li>● Supervised clinical practice</li> <li>● Explain using charts, graph.</li> <li>● Models, films &amp; slides</li> <li>● Health Education</li> <li>● Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>
<b>IX</b>	<b>15</b>	<ul style="list-style-type: none"> <li>● Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients</li> </ul>	<p><b>Nursing Management of patient with disorders of endocrine system)</b></p> <ul style="list-style-type: none"> <li>● Review of anatomy and physiology of endocrine system</li> <li>● Nursing Assessment- History and Physical Assessment</li> <li>● Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice Session</li> <li>● Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type question</li> <li>● Short notes</li> <li>● Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		with disorders of endocrine system.	<p>surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</p> <ul style="list-style-type: none"> <li>❖ <b>Disorders of Thyroid</b> <ul style="list-style-type: none"> <li>✓ Hyperthyroidism</li> <li>✓ Hypothyroidism</li> <li>✓ Thyroiditis</li> <li>✓ Cancer Thyroid</li> </ul> </li> <li>❖ <b>Disorders of Parathyroid</b> <ul style="list-style-type: none"> <li>✓ Hyperparathyroidism</li> <li>✓ Hypoparathyroidism</li> </ul> </li> <li>❖ <b>Disorders of Pitutary gland</b> <ul style="list-style-type: none"> <li>✓ Hyperpituitarism</li> <li>✓ Gigantism and Acromegaly</li> <li>✓ Cushing's Diseases</li> <li>✓ Hypopituitarism</li> <li>✓ Diabetes Insipidus</li> <li>✓ Syndrome of inappropriate ADH</li> </ul> </li> <li>❖ <b>Disorders of adrenal gland</b> <ul style="list-style-type: none"> <li>✓ Cushing's Syndrome</li> <li>✓ Addison's Disease</li> <li>✓ Pheochromocytoma (Adrenal Tumour)</li> <li>✓ Conn's Syndrome</li> </ul> </li> <li>❖ <b>Others</b> <ul style="list-style-type: none"> <li>✓ Pre metabolic Syndrome</li> <li>✓ Diabetes Mellitus</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Health Education</li> <li>• Drug book/ Presentation</li> </ul>	
X	10	<ul style="list-style-type: none"> <li>• Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of skin.</li> </ul>	<p><b>Nursing management of patient with disorders of Integumentary system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of skin and its appendages</li> <li>• Nursing Assessment- History and Physical Assessment</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures) <ul style="list-style-type: none"> <li>○ Pruritus</li> <li>○ Lesions &amp; Abrasions</li> <li>○ Eczematous Disorders</li> <li>○ Pemphigus</li> <li>○ Cellulites</li> <li>○ Ache Vulgaris</li> <li>○ Alopecia</li> <li>○ Skin Cancer</li> <li>○ Systemic Lupus Erythmatosus</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Health Education</li> <li>• Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>
XI	15	<ul style="list-style-type: none"> <li>• Describe the etiology,</li> </ul>	<p><b>Nursing management of patient with musculoskeletal problems</b></p>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of musculoskeletal system.	<ul style="list-style-type: none"> <li>• Review of Anatomy &amp; Physiology of musculoskeletal systems</li> <li>• Nursing Assessment – History and Physical assessment</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</li> <li>❖ <b>Disorders of musculoskeletal System</b> <ul style="list-style-type: none"> <li>○ Fractures</li> <li>○ Strains &amp; Sprains</li> <li>○ Dislocations &amp; Subluxations</li> <li>○ Low Back Pain</li> <li>○ Arthritis</li> <li>○ Osteomyelitis</li> <li>○ Osteomalacia</li> <li>○ Osteoporosis</li> <li>○ Scoliosis, Kyphosis, Lordosis</li> <li>○ IVDP</li> <li>○ Paget's Disease</li> <li>○ Disorders of the hand</li> <li>○ Disorders of the foot</li> <li>○ Muscular Dystrophy</li> <li>○ Congenital Disorders</li> <li>○ THR/TKR</li> <li>○ Rehabilitation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Health Education</li> <li>• Drug book/ Presentation</li> </ul>	<p>question</p> <ul style="list-style-type: none"> <li>• Short notes</li> <li>• Short answer</li> </ul>
<b>XII</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Immunological system.</li> </ul>	<p><b>Nursing management of patient with Immunological problems</b></p> <ul style="list-style-type: none"> <li>• Review of Immune system,</li> <li>• Nursing Assessment-History and physical assessment</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</li> <li>• Altered immune disorders <ul style="list-style-type: none"> <li>➤ Primary immuno deficiency</li> <li>➤ Phagocytic dysfunction</li> <li>➤ B-cell and T-cell deficiencies</li> <li>➤ Secondary immunodeficiencies</li> </ul> </li> <li>• <b>Immunodeficiency disorders</b></li> <li>• <b>HIV and AIDS</b> <ul style="list-style-type: none"> <li>➤ Incidence of HIV and AIDS</li> <li>➤ Epidemiology</li> <li>➤ Transmission and Prevention of</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Health Education</li> <li>• Drug book/ Presentation</li> <li>• Orientation visit to hospital control system</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>Transmission</li> <li>➤ Standard Safety precautions</li> <li>➤ Role of Nurse; Counselling</li> <li>➤ Health education and home care consideration</li> <li>➤ National AIDS control program (NACO), various national and international agencies</li> <li>➤ Auto Immune disorders</li> <li>➤ Infection control program</li> <li>➤ Rehabilitation</li> </ul>		
<b>XIII</b>	<b>25</b>	<ul style="list-style-type: none"> <li>• Describe the organization and physical set up of operation theatre.</li> <li>• Identify the various instruments and equipments used for common surgical procedures.</li> <li>• Describe the infection control measures in the Operation Theatre.</li> <li>• Describe the role of the nurse in the Peri Operative nursing care.</li> </ul>	<p><b>Peri operative nursing:</b></p> <ul style="list-style-type: none"> <li>• Organisation and physical set up of the operation theater (OT); <ul style="list-style-type: none"> <li>○ Classification</li> <li>○ O.T. Design</li> <li>○ Staffing</li> <li>○ Members of the OT team</li> <li>○ Duties and responsibilities of nurse in O.T.</li> <li>○ Principles of operating room attire.</li> <li>○ Basic Instruments sets use in OT.</li> <li>○ Sutures and suture materials</li> <li>○ Equipments in OT.</li> <li>○ O.T. tables and sets for common surgical procedures</li> <li>○ Positions and draping for common surgical procedures</li> <li>○ Scrubbing procedures</li> <li>○ Gowning and gloving</li> <li>○ Preparation of O.T. sets</li> <li>○ Monitoring the patient during surgical procedures</li> </ul> </li> <li>• Maintenance of therapeutic environment in O.T.</li> <li>• Standard safety measures <ul style="list-style-type: none"> <li>○ Infection control; fumigation, disinfection and sterilization</li> <li>○ Biomedical waste management</li> <li>○ Prevention of accidents and hazards in O.T.</li> </ul> </li> <li>• Anaesthesia <ul style="list-style-type: none"> <li>○ Types</li> <li>○ Methods of administration</li> <li>○ Effects and Stages</li> <li>○ Equipments</li> <li>○ Drugs</li> </ul> </li> <li>• Cardio Pulmonary Resuscitation (CPR)</li> <li>• Pain management techniques</li> <li>• Legal Aspects in OT.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> <li>• Explain using charts, graph.</li> <li>• Models, films &amp; slides</li> <li>• Drug book/ Presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

# MEDICAL-SURGICAL NURSING– I (PRACTICAL/ CLINICAL)

Placement: Second Year

Time: 720 Hours

<b>Practical – II Medical – Surgical Nursing – I Practical with Viva Voce</b>	<b>Internal Assessment</b>	<b>(Final Practical Exam)</b>	<b>Total</b>
	100	100	200

**Note:**

An examiner in practical II – Medical Surgical Nursing – I Practical with viva voce need to be M.Sc. Nursing with Medical Surgical Nursing speciality & with minimum of 3 years Collegiate / University level teaching experience.

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
General Medical and Surgical wards	6 weeks medical ward (Respiratory, GI, Endocrine, Renal, Hematology)  6 weeks General Surgical Ward (GI, Urinary, CTVS)	<ul style="list-style-type: none"> <li>• Provide nursing care to adult patients with medical disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Nursing care of patients by applying nursing process</b></li> <li>• <b>General Skills</b> <ul style="list-style-type: none"> <li>○ History Taking</li> <li>○ Performing Physical Examination</li> <li>○ Monitoring Vital Signs</li> <li>○ Personal Hygenic Nursing procedures</li> <li>○ Positioning and posture</li> <li>○ Activity and Rest</li> <li>○ Comfort measures</li> <li>○ Nutritional need</li> <li>○ Elimination need</li> <li>○ Collection of specimen</li> <li>○ Administering Medications (Oral, IM, IV, ID, SC)</li> <li>○ Patient Teaching and counseling</li> </ul> </li> <li>• <b>Respiratory Nursing Skills</b> <ul style="list-style-type: none"> <li>○ Oxygen administration</li> <li>○ Steam</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 3-4 medical assigned patients.</li> <li>• Medical Nursing care plan- 2</li> <li>• Medical Nursing case study/ presentation -1</li> <li>• Drug presentation-1</li> <li>• Maintain drug book.</li> <li>• Maintain Practical record book.</li> <li>• Plan and give care to 3-4 surgical assigned patients.</li> <li>• Surgical Nursing care plan- 2</li> <li>• Surgical Nursing case study/ presentation -1</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of case study/ presentation</li> <li>• Completion of practical record.</li> <li>• Vivavoce</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Cardiology	2 weeks		<ul style="list-style-type: none"> <li>○ inhalation</li> <li>○ Nebulization</li> <li>○ Artificial Airway management</li> <li>○ Assist patient with use of spirometer</li> <li>○ Operating Mechanical Ventilators</li> <li>○ Chest Physiotherapy</li> <li>○ Postural Drainage</li> <li>○ Care of ICD</li> <li>○ Assisting with Bronchoscopy</li> <li>○ Assisting with Thoracentesis</li> <li>○ Performing on oral and endotracheal/tracheostomy suctioning</li> <li>● <b>GI Nursing Skills</b></li> <li>● Serving normal diet.</li> <li>● Feeding a helpless patient.</li> <li>● Insertion of a N.G. tube.</li> <li>● Administration of a tube feeding.</li> <li>● Nasogastric aspiration</li> <li>● Feeding through a Gastrostomy/ Jejuenostomy tube.</li> <li>● Administration of total parental nutrition.</li> <li>● Performing a test feed.</li> <li>● Administering Enema.</li> <li>● Performing a Bowel wash/Colonic lavage.</li> <li>● Performing colostomy, Gastrostomy, Enterostomy care.</li> <li>● Performing</li> </ul>	<ul style="list-style-type: none"> <li>● Plan and give</li> </ul>	

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Ward		<ul style="list-style-type: none"> <li>• Provide nursing care to adult patients with cardiac disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<p>colostomy irrigation.</p> <ul style="list-style-type: none"> <li>• Performing Gastric Suctioning.</li> <li>• Assisting with upper Gastro intestinal Fiberoscopy.</li> <li>• Preparation of and assisting with Colonoscopy.</li> <li>• Assisting with Liver Biopsy.</li> <li>• Assisting with insertion of sengstaken Blakemore Tube/ Balloon Tamponade.</li> <li>• Assisting with Abdominal Paracentesis.</li> </ul> <p><b>Cardio Vascular Nursing Skills</b></p> <ul style="list-style-type: none"> <li>○ Recording and Interpreting ECG.</li> <li>○ Holter Monitoring.</li> <li>○ Performing a Veinpuncture.</li> <li>○ Administering of an Intravenous Infusion.</li> <li>○ Blood Transfusion.</li> <li>○ Monitoring central venous pressure.</li> <li>○ Preparation and assisting for cardiac catheterization and pacemaker implantation..</li> <li>○ Performing BLS.</li> <li>○ Performing Defibrillation and ACLS.</li> <li>• Administer cardiac and emergency drugs.</li> </ul> <p><b>Hematologic Nursing Skills</b></p> <ul style="list-style-type: none"> <li>○ Administering Blood Transfusion.</li> <li>○ Blood Transfusion reactions and Nursing management.</li> <li>○ Assisting with Bone Marrow aspiration</li> </ul>	<p>care to 2-3 Cardiac assigned patients.</p> <ul style="list-style-type: none"> <li>• Cardiac Nursing care plan- 1</li> <li>• Cardiac Nursing case study/ presentation/h ealth talk-1</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performanc e with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of case study/ presentatio n</li> <li>• Completion of activity record.</li> <li>• Vivavoce</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Skin & Communicable diseases Ward	1	<ul style="list-style-type: none"> <li>Identify skin problems</li> <li>Provide nursing care to patients with skin disorders &amp; communicable diseases</li> <li>Counsel &amp; educate patients &amp; families</li> </ul>	<p>and biopsy.</p> <p><b>Genito-Urinary Nursing Skills</b></p> <ul style="list-style-type: none"> <li>Performing on urinary catheterization</li> <li>Performing catheter care.</li> <li>Performing a Bladder irrigation.</li> <li>Preparation of patient and assisting with cytосcopy.</li> <li>Assisting with intravenous pyelography.</li> <li>Assisting with Renal Biopsy.</li> </ul> <p><b>Endocrine Nursing Skills</b></p> <ul style="list-style-type: none"> <li>Administering subcutaneous injection.</li> <li>Administering Bolus medications through intravenous route.</li> <li>Administering rectal suppositories.</li> </ul>	<ul style="list-style-type: none"> <li>Plan and give care to 2-3 assigned patients.</li> <li>Health talk/Counseling HIV positive patients and families-1</li> <li>Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance with rating scale</li> <li>Evaluation of health talk/ Counseling session</li> </ul> <p>Completion of activity record.</p> <ul style="list-style-type: none"> <li>Viva-voce</li> </ul>
Orthopedic Ward	2	<ul style="list-style-type: none"> <li>Provide nursing care to patients with musculoskeletal disorders</li> <li>Counsel &amp; educate patients &amp; families</li> </ul>	<p><b>Integumentary Nursing Skills</b></p> <ul style="list-style-type: none"> <li>Performing a wound dressing.</li> <li>Removal of sutures and staples.</li> <li>Performing a wound irrigation.</li> <li>Applying topical medications.</li> </ul> <ul style="list-style-type: none"> <li>Give medicated baths</li> <li>Practice medical and surgical asepsis- Standard safety measures.</li> <li>Use of personal protective equipment</li> </ul>	<ul style="list-style-type: none"> <li>Plan and give care to 2-3 Orthopedic assigned patients.</li> <li>Orthopedic Nursing care plan-1</li> <li>Orthopedic Nursing case study/ presentation -1</li> <li>Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance with rating scale</li> <li>Evaluation of Nursing care plan &amp; Nursing case study/ presentation</li> <li>Completion of activity record.</li> <li>Vivavoce</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			<p>(PPE)</p> <ul style="list-style-type: none"> <li>● Counsel HIV positive patients</li> </ul> <p>Teach prevention of infectious diseases.</p> <p><b>Orthopedic Nursing Skills</b></p> <ul style="list-style-type: none"> <li>○ Assisting with application of splints, slings skin traction and plaster of paris.</li> <li>○ Applying Bandage and Binder.</li> <li>○ Pin site care in skeletal Traction.</li> <li>○ Assisting with walking using walker and cane.</li> <li>○ Assisting with crutch walking.</li> <li>○ ROM and muscle strengthening exercises.</li> </ul> <p><b>Immunological Nursing Skills</b></p> <ul style="list-style-type: none"> <li>○ Performing medical hand washing.</li> <li>○ Policies for segregation and disposal of biomedical waste.</li> <li>○ Disinfection of blood and body</li> </ul> <p>Prevention of Nosocomial infections.</p>		
Peri Operative Nursing	6 Operation Theatre	<ul style="list-style-type: none"> <li>● Identify instruments and equipments used in common surgical procedures.</li> <li>● Participate in Infection control practices in the Operation</li> </ul>	<ul style="list-style-type: none"> <li>● Practice medical surgical asepsis- Standard safety measures</li> <li>● Pre operative preparation of patients</li> <li>● Scrubbing, gowning, gloving</li> <li>● Identify instruments, suturing materials for common operations</li> <li>● Disinfection,</li> </ul>	<ul style="list-style-type: none"> <li>● Assist as a circulatory nurse in: <ul style="list-style-type: none"> <li>❖ Major cases- 10</li> <li>❖ Minor cases- 5</li> </ul> </li> <li>● Assist as a scrub nurse in <ul style="list-style-type: none"> <li>❖ Major cases- 10</li> <li>❖ Minor cases- 5</li> </ul> </li> <li>● Maintain drug</li> </ul>	<ul style="list-style-type: none"> <li>● Assess performance with rating scale</li> <li>● Completion of activity record.</li> <li>● Vivavoce</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
		Theatre. <ul style="list-style-type: none"> <li>● Set-up the table/trolley for common operative procedures.</li> <li>● Assist in giving anesthesia.</li> <li>● Assist in the various operative procedures.</li> <li>● Provide peri operative nursing care.</li> </ul>	Carbolization, fumigation <ul style="list-style-type: none"> <li>● Preparation of instrument sets for common operations</li> <li>● Sterilization of sharp and other instruments</li> <li>● Prepare the OT table depending upon the operation</li> <li>● Positioning and monitoring of patients</li> <li>● Endotracheal intubation</li> <li>● Assisting in minor and major operations.</li> <li>● Handling specimens</li> <li>● Post operative preparation care-receiving patients, assessment, monitoring and care.</li> <li>● Care of wounds and drainage.</li> <li>● Ambulation and exercise</li> <li>● Disposal of waste as per the guidelines.</li> </ul>	book <ul style="list-style-type: none"> <li>● Assignment on OT Instruments</li> </ul>	

## COMMUNITY HEALTH NURSING-I

**Placement: Second Year**

**Time: Theory – 90 Hours  
Practical – 135 Hours**

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
XII	Community Health Nursing- I	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XII	Community Health Nursing-I	3 hours	75

### Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

### Note:

An examiner in Paper XI – Community Health Nursing – I need to be M.Sc. Nursing with Community Health Nursing specialty & minimum of 3 years collegiate / university level teaching experience.

**Course Description:** This course is designed to enable students to appreciate the principles of promotion and maintenance of health.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
<b>I</b>		<ul style="list-style-type: none"> <li>• Describe concept &amp; dimensions of health</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Community health nursing</li> <li>• Definition , concept and dimensions of health</li> <li>• Promotion of health</li> <li>• Maintenance of health</li> </ul> <p><i>Approaches, concepts and roles and responsibilities of Community Health Nursing personnel</i></p> <ul style="list-style-type: none"> <li>• Approaches                             <ul style="list-style-type: none"> <li>○ Nursing Process concepts of primary health care</li> <li>○ Home visit: Concept, Principles, Process, Techniques: Bag Technique</li> <li>○ Qualities of Community Health Nurse</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
<b>II</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Describe determinants of health</li> </ul>	<p><b>Determinants of health</b></p> <ul style="list-style-type: none"> <li>• Eugenics</li> <li>• Environment:                             <ul style="list-style-type: none"> <li>○ Physical: Air, light,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using charts, graphs,</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
			<p>Ventilation, Water, Housing, Sanitation; disposal of waste, disposal of dead bodies, forestation, Noise, Climate, Communication; infrastructure facilities and linkages</p> <ul style="list-style-type: none"> <li>○ Acts regulating the environment; National pollution control board</li> <li>○ Bacterial &amp; viral: agents, host carriers and immunity</li> <li>○ Arthropods and Rodents</li> <li>● Food hygiene: Production, Preservation, Purchase, Preparation, Consumption</li> <li>● Acts regulating food hygiene prevention of food adulteration act, Drugs and cosmetic act</li> <li>● Socio cultural <ul style="list-style-type: none"> <li>○ Customs, taboos</li> <li>○ Marriage system</li> <li>○ Family structure</li> <li>○ Status of special groups; Females, Children, Elderly, challenged groups and Sick persons</li> </ul> </li> <li>● Life style</li> <li>● Hygiene</li> <li>● Physical activity <ul style="list-style-type: none"> <li>○ Recreation and sleep</li> <li>○ Sexual life</li> <li>○ Spiritual life philosophy</li> <li>○ Self reliance</li> <li>○ Dietary pattern</li> <li>○ Education</li> <li>○ Occupation</li> </ul> </li> <li>● Financial Management <ul style="list-style-type: none"> <li>○ Income</li> <li>○ Budget</li> <li>○ Purchasing power</li> <li>○ Security</li> </ul> </li> </ul>	<p>models, films, slides &amp; other A.V. aids.</p> <ul style="list-style-type: none"> <li>● Visit to water supply, sewage disposal, milk plants, slaughter house etc</li> </ul>	<p>questions</p>
<b>III</b>	<b>5</b>	<ul style="list-style-type: none"> <li>● Describe concept, scope, uses, methods &amp; approaches of</li> </ul>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>● Definition, concept, aims, scope, uses and terminology used in epidemiology</li> <li>● Dynamics of disease transmission; epidemiological</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Explain using charts, graphs, models, films, slides &amp; other</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answer questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
		epidemiology	triad <ul style="list-style-type: none"> <li>• Morbidity and mortality; measurements</li> <li>• Levels of prevention</li> <li>• Methods of epidemiology of               <ul style="list-style-type: none"> <li>○ Descriptive</li> <li>○ Analytical: Epidemic investigation</li> <li>○ Experimental</li> </ul> </li> </ul>	A.V. aids.	
<b>IV</b>	<b>25</b>	<ul style="list-style-type: none"> <li>• Describe epidemiology &amp; nursing management of common communicable diseases</li> </ul>	<b>Epidemiology and nursing management of common Communicable Diseases</b> <ul style="list-style-type: none"> <li>• Respiratory infections               <ul style="list-style-type: none"> <li>○ Small Pox</li> <li>○ Chicken Pox</li> <li>○ Measles</li> <li>○ Influenza</li> <li>○ Rubella</li> <li>○ ARI's &amp; Pneumonia</li> <li>○ Mumps</li> <li>○ Diphtheria</li> <li>○ Whooping cough</li> <li>○ Meningococcal meningitis</li> <li>○ Tuberculosis</li> <li>○ SARS</li> </ul> </li> <li>• Intestinal Infections               <ul style="list-style-type: none"> <li>○ Poliomyelitis</li> <li>○ Viral hepatitis</li> <li>○ Cholera</li> <li>○ Diarrhoeal diseases</li> <li>○ Typhoid fever</li> <li>○ Food poisoning</li> <li>○ Amoebiasis</li> <li>○ Hook worm infection</li> <li>○ Ascariasis</li> <li>○ Dracunculiasis</li> </ul> </li> <li>• Arthropod infections               <ul style="list-style-type: none"> <li>○ Dengue</li> <li>○ Malaria</li> <li>○ Filariasis</li> </ul> </li> <li>• Zoonoses</li> </ul> <b>Viral</b> <ul style="list-style-type: none"> <li>○ Rabies</li> <li>○ Yellow fever</li> <li>○ Japanese encephalitis</li> <li>○ Kyasnur forest disease</li> </ul> <b>Bacterial</b> <ul style="list-style-type: none"> <li>○ Brucellosis</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using charts, graphs, models, films, slides &amp; other A.V. aids.</li> <li>• Seminar</li> <li>• Supervised field practice-Health centres, clinic &amp; homes</li> <li>• Group Project/Health Education</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
			<ul style="list-style-type: none"> <li>○ Plague</li> <li>○ Human salmonellosis</li> <li>○ Anthrax</li> <li>○ Leptospirosis</li> </ul> <p><b>Rickettsial diseases</b></p> <ul style="list-style-type: none"> <li>○ Rickettsial diseases</li> <li>○ Scrub typhus</li> <li>○ Murine typhus</li> <li>○ Tick typhus</li> <li>○ Q fever</li> </ul> <p><b>Parasitic zoonoses</b></p> <ul style="list-style-type: none"> <li>○ Taeniasis</li> <li>○ Hydatid disease</li> <li>○ Leishmaniasis</li> </ul> <p><b>Surface infection</b></p> <ul style="list-style-type: none"> <li>○ Trachoma</li> <li>○ Tetanus</li> <li>○ Leprosy</li> <li>○ STD &amp; RTI</li> <li>○ Yaws</li> <li>○ HIV/AIDS</li> </ul> <p>Immunity, immunizing agents, Cold chain, National immunization schedule</p>		
V	10	<ul style="list-style-type: none"> <li>• Describe epidemiology &amp; nursing management of common non-communicable diseases</li> </ul>	<p><b>Epidemiology and Nursing management of Non communicable diseases</b></p> <ul style="list-style-type: none"> <li>• Malnutrition: under nutrition, over nutrition, nutritional deficiencies</li> <li>• Anaemia</li> <li>• Hypertension</li> <li>• Stroke</li> <li>• Rheumatic. Heart Disease</li> <li>• Coronary Heart Disease</li> <li>• Cancer</li> <li>• Diabetes mellitus</li> <li>• Blindness</li> <li>• Accidents</li> <li>• Mental illness</li> <li>• Obesity</li> <li>• Iodine Deficiency</li> <li>• Fluorosis</li> <li>• Epilepsy</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using charts, graphs, models, films, slides</li> <li>• Seminar</li> <li>• Supervised field practice-Health centres, clinics, &amp; homes</li> <li>• Group Project/Health Education</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>
VI	5	<ul style="list-style-type: none"> <li>• Describe the concepts &amp; scope of</li> </ul>	<p><b>Demography</b></p> <ul style="list-style-type: none"> <li>• Definition, concept and scope</li> <li>• Methods of collection, analysis and interpretation of</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Community identification</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
		demography <ul style="list-style-type: none"> <li>Describe methods of data collection, analysis &amp; interpretation of demographic data.</li> </ul>	demographic data <ul style="list-style-type: none"> <li>Demographic rates and ratios</li> </ul>	survey	questions <ul style="list-style-type: none"> <li>Assessment of survey report</li> </ul>
<b>VII</b>	<b>15</b>	<ul style="list-style-type: none"> <li>Identify the impact of population explosion in India</li> <li>Describe methods of population control</li> </ul>	<b>Population and its control</b> <ul style="list-style-type: none"> <li>Population explosion and its impact on social, economic development of individual, society and country</li> <li>Population control:               <ul style="list-style-type: none"> <li>Overall development: women empowerment, social, economic and educational development</li> </ul> </li> <li>Limiting family size:               <ul style="list-style-type: none"> <li>Promotion of small family norm</li> <li>Methods: spacing (natural, biological, chemical, mechanical method etc.)</li> <li>Terminal: surgical methods</li> <li>Emergency contraception</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Population Survey</li> <li>Counselling</li> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised feed practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of survey report</li> </ul>

**COMMUNITY HEALTH NURSING – I (PRACTICAL)**

**Placement: Second Year**

**Time: Practical: 135 Hours**

<b>Areas</b>	<b>Duration (in weeks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assignments</b>	<b>Assessment Method</b>
Community Health Nursing	2 weeks Urban & 2 weeks Rural	<ul style="list-style-type: none"> <li>• Build &amp; maintain rapport</li> <li>• Identify demographic characteristic, health determinants &amp; community health resources</li> <li>• Diagnose health needs of individuals &amp; families</li> <li>• Provide primary care in health centre</li> <li>• Counsel &amp; educate individual, family &amp; community</li> </ul>	<ul style="list-style-type: none"> <li>• Use techniques of inter personal relationship</li> <li>• Identification of health determinants of community</li> <li>• History taking</li> <li>• Physical examination</li> <li>• Collect specimens- sputum, malaria smear</li> <li>• Perform simple lab tests at centre- blood for hemoglobin, sugar, urine for albumin and sugar</li> <li>• Administer vaccines &amp; medications to adults</li> <li>• Counsel &amp; teach individual, family &amp; community                             <ul style="list-style-type: none"> <li>○ Nutrition</li> <li>○ Hygiene</li> <li>○ Self health monitoring</li> <li>○ Seeking health services</li> <li>○ Healthy life style</li> <li>○ Family Welfare methods</li> <li>○ Health promotion</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• To work with 2 assigned families each in rural &amp; urban</li> <li>• Family Case study- 1</li> <li>• Observation report of community -1</li> <li>• Health talks -2 (1 in urban &amp; 1 in rural)</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of family case study, observation report &amp; health talk presentation</li> <li>• Completion of activity record.</li> </ul>

# SOCIOLOGY

Placement: First year

Time: Theory - 60 hours

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
XIII	Sociology	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XIII	Sociology	3 hours	75

### Question paper pattern

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

### Note:

An examiner / paper setter in the subject of Paper – VI: Sociology need to have a post graduate degree in Sociology with a minimum 3 years of collegiate / University level teaching experience.

**Course Description:** This course is designed to introduce the concepts of sociology related to community and social institutions in India and its relationship with health illness and nursing.

Unit No.	Time	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>1</b>	<ul style="list-style-type: none"> <li>● State the importance of sociology in nursing.</li> </ul>	<b>Introduction</b> <ul style="list-style-type: none"> <li>● Definition of sociology</li> <li>● Nature and scope of the discipline</li> <li>● Social anthropology and sociology</li> <li>● Importance of Sociology in General</li> <li>● Importance of Sociology in Nursing.</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answers</li> </ul>
<b>II</b>	<b>3</b>	<ul style="list-style-type: none"> <li>● Describe the interrelationship of Individual in Society &amp; community</li> </ul>	<b>Individual &amp; society</b> <ul style="list-style-type: none"> <li>● Society –Meaning, Definitions &amp; its Nature</li> <li>● Community- Meaning, Definitions &amp; its elements</li> <li>● Difference between society and community</li> <li>● Process of socialization</li> <li>● Process of socialization</li> <li>● Individualization</li> <li>● Personal disorganization-Meaning, types &amp; its causes</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answers</li> </ul>
<b>III</b>	<b>3</b>	<ul style="list-style-type: none"> <li>● Describe the influence of culture on</li> </ul>	<b>Culture</b> <ul style="list-style-type: none"> <li>● Culture- Meaning &amp; its Nature</li> <li>● Components of Culture</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Panel</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short note</li> </ul>

Unit No.	Time	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		health & disease.	<ul style="list-style-type: none"> <li>• Evolution of culture</li> <li>• Diversity and uniformity of culture</li> <li>• Culture and socialization</li> <li>• Trans cultural society</li> <li>• Influence on health and disease</li> </ul>	Discussion	<ul style="list-style-type: none"> <li>• Short answers</li> </ul>
IV	4	<ul style="list-style-type: none"> <li>• Identify various social groups &amp; their interactions.</li> </ul>	<b>Social groups and processes</b> <ul style="list-style-type: none"> <li>• Social Groups- Meaning, Definitions &amp; classifications of groups</li> <li>• Cooley's Classification-Primary &amp; secondary group</li> <li>• Sumner's Classification-In group vs. out group</li> <li>• Class, Caste &amp; race: criteria</li> <li>• Economic political &amp; religious groups</li> <li>• Mob crowd public and audience interaction</li> <li>• Social processes- Co operation competition conflict</li> <li>• Accommodation assimilation &amp; isolation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>
V	6	<ul style="list-style-type: none"> <li>• Explain the growth of population in India &amp; its impact on health</li> </ul>	<b>Population</b> <ul style="list-style-type: none"> <li>• Society and population</li> <li>• Population distribution in India demographic characteristics</li> <li>• Malthusian theory of population</li> <li>• Population explosion in India and its impact on health status</li> <li>• Family welfare programmes</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Community Identification</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of report on community identification</li> </ul>
VI	5	<ul style="list-style-type: none"> <li>• Describe the institutions of family &amp; marriage in India.</li> </ul>	<b>Family and marriage</b> <ul style="list-style-type: none"> <li>• Family and marriage</li> <li>• Family- Meaning, Definitions, Features &amp; functions</li> <li>• Types- Joint, Nuclear, Blended and Extended family.</li> <li>• Family in India- Joint Family - Meaning, Features, Merits &amp; Demerits &amp; changes, Legislation on Family.</li> <li>• <i>The modern family</i> – <ul style="list-style-type: none"> <li>✓ Nuclear-Meaning ,Features, Problems of Modern Family – Divorce etc. problems dowry etc., welfare services ,changes</li> <li>✓ Factors responsible for changes in nuclear &amp; joint</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Family case study</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of family case study</li> </ul>

Unit No.	Time	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>family.</p> <ul style="list-style-type: none"> <li>• Marriages: Meaning, Forms and Functions of marriage, Rules of Mate choice.</li> <li>• Marriage in India-Marriage acts, forms of marriage.</li> <li>• Marriage &amp; Family problems in India</li> <li>• Family, marriage and their influence on health and health practices.</li> </ul>		
VII	7	<ul style="list-style-type: none"> <li>• Describe the class &amp; caste system &amp; their influence on health &amp; health practices.</li> </ul>	<p><b>Social stratification</b></p> <ul style="list-style-type: none"> <li>• Meaning &amp; types of social stratification</li> <li>• The Indian caste system – Meaning, origin, Features, Merits &amp; Demerits.</li> <li>• Features of caste in India today</li> <li>• Social class system and status</li> <li>• Social mobility meaning &amp; types</li> <li>• Race as biological concept criteria of racial classification</li> <li>• Salient features of primary races racism</li> <li>• Influence of class, caste and race on Health &amp; health practices</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Community survey</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of report on community survey</li> </ul>
VIII	6	<ul style="list-style-type: none"> <li>• Describe the types of communities in India, their practices &amp; the impact on health.</li> </ul>	<p><b>Types of communities in India (rural, urban and regional)</b></p> <ul style="list-style-type: none"> <li>• Features of village community &amp;</li> <li>• Characteristics of Indian villages</li> <li>• Panchayat system -Social Dynamics</li> <li>• Community Development project &amp; planning</li> <li>• Changes in Indian rural life</li> <li>• Availability of health facilities in rural and its impact on health &amp; Health practices</li> <li>• Urban community- Features.</li> <li>• The growth of cities : Urbanization and its impact on health and health practices</li> <li>• Major urban problems -Urban slums</li> <li>• Region : Problems and impact on health</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Community survey</li> <li>• Visits to rural &amp; urban community</li> </ul>	<ul style="list-style-type: none"> <li>• Essay</li> <li>• Short answers</li> <li>• Assessment of report on community survey</li> </ul>
IX	4	<ul style="list-style-type: none"> <li>• Explain the social change</li> </ul>	<p><b>Social change</b></p> <ul style="list-style-type: none"> <li>• Nature and process of social change</li> <li>• Factors influencing social change</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> </ul>

Unit No.	Time	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>• Cultural Change: Ogburn's Theory of cultural lag</li> <li>• Introduction to theories of social change: linear , cyclical, Marxian &amp; Functional</li> <li>• Role of nurse as change agents</li> </ul>		
X	4	<ul style="list-style-type: none"> <li>• Describe the social system &amp; interrelationship of social organizations.</li> </ul>	<b>Social organization and social system</b> <ul style="list-style-type: none"> <li>• Social organization: elements , Types</li> <li>• Democratic and authoritarian modes of participation</li> <li>• Voluntary associations</li> <li>• Social system; definition and types of social system</li> <li>• Role and status as structural elements of social system</li> <li>• Inter relationship of institutions</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Observation visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of visit report</li> </ul>
XI	2	<ul style="list-style-type: none"> <li>• Explain the nature &amp; process of social control</li> </ul>	<b>Social control</b> <ul style="list-style-type: none"> <li>• Nature and process of social control</li> <li>• Political, legal, religious, educational, economic</li> <li>• Industrial and technological systems.</li> <li>• Norms &amp; values - folkways &amp; mores, customs, laws and fashion</li> <li>• Role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Community survey</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of report on community survey</li> </ul>
XII	15	<ul style="list-style-type: none"> <li>• Describe the role of nurse in dealing with social problems in India.</li> </ul>	<b>Social problems</b> <ul style="list-style-type: none"> <li>• Social disorganization</li> <li>• Control &amp; planning: poverty, housing, illiteracy, food supplies, Prostitution, rights of women &amp; children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime substance abuse.HIV/AIDS, Female foeticide, dowry system</li> <li>• Social welfare programmes in India</li> <li>• Role of nurse in dealing with the social problems</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Institutional visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answers</li> <li>• Assessment of visit report</li> </ul>

# **B.Sc. (Hons) NURSING 3<sup>rd</sup> YEAR**

# MEDICAL SURGICAL NURSING-II (Including Geriatrics)

Placement: Third Year

Time: Theory - 100 hours  
Practical – 270 hours

Paper	Subject	Internal assessment	Final Exam	Total Marks
XIV	Medical Surgical Nursing – II	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exams)
XIV	Medical Surgical Nursing – II	3 hours	75

### Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

### Note:

An examiner / paper setter in the subject of Paper –XIII Medical Surgical – II need to be M. Sc. Nursing with Medical Surgical Nursing specialty & with 3 years of Collegiate / University level teaching experience.

**Course Description:** This course is designed to enable students to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in various health care settings and at home.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
I	10	<ul style="list-style-type: none"> <li>Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures &amp; management of patients with disorders of Ear Nose &amp; Throat</li> </ul>	<p><b>Nursing management of patient with disorders of ear, nose and throat</b></p> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of the ear, nose and throat.</li> <li><i>Nursing Assessment:</i> history and physical assessment.</li> <li><i>Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures):</i></li> <li> <b>Disorders of External ear:</b> deformities otalgia, foreign bodies and tumors.</li> <li> <b>Disorders of Middle ear:</b> impacted wax, tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours.</li> <li> <b>Disorders of Inner ear:</b> meniere's disease, labyrinthitis, ototoxicity and</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Explain using Charts, graphs</li> <li>Models, Films, Slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/Seminar</li> <li>Health education</li> <li>Supervised clinical practice</li> <li>Drug book /presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
			<p>tumours.</p> <ul style="list-style-type: none"> <li>✚ <b>Disorders of Nose:</b> Epistaxis, Rhinitis, Sinusitis, Nasal obstruction, Nasal polyps, Deviated nasal septum</li> <li>✚ <b>Disorders of Throat:</b> Common cold, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis, laryngeal obstruction, cancer of larynx</li> </ul> <ul style="list-style-type: none"> <li>• Cancer of oral cavity</li> <li>• Speech defects and speech therapy.</li> <li>• Deafness</li> <li>• Prevention, control and rehabilitation</li> <li>• Hearing aids, implanted hearing devices</li> </ul>		
<b>II</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures &amp; management of patients with disorders of Eye</li> </ul>	<p><b>Nursing management of patient with disorders of eye</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of eye.</li> <li>• <b>Nursing assessment:</b> history and physical assessment.</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management (Nursing process including nursing procedures). <ul style="list-style-type: none"> <li>➤ Conjunctivitis</li> <li>➤ Blepharitis</li> <li>➤ Hordeolum</li> <li>➤ Chalazion</li> <li>➤ Keratitis</li> <li>➤ Refractive Errors <ul style="list-style-type: none"> <li>➤ Myopia</li> <li>➤ Hypermetropia</li> <li>➤ Astigmatism</li> <li>➤ Presbiopia</li> </ul> </li> <li>➤ cataract</li> <li>➤ Glaucoma</li> <li>➤ Uveitis</li> <li>➤ Ocular tumours</li> <li>➤ Retinal Detachment</li> <li>➤ Retinitis</li> <li>➤ Blindness, National blindness control program</li> <li>➤ Ocular Emergencies &amp; its Problems</li> </ul> </li> <li>• Eye banking</li> <li>• Eye prostheses and rehabilitation</li> <li>• Role of nurse-communication with visual impaired patient, eye camps</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> <li>• Visit to eye bank</li> <li>• Participation in eye-camps</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>
<b>III</b>	<b>20</b>	<ul style="list-style-type: none"> <li>• Describe the etiology, pathophysiology,</li> </ul>	<p><b>Nursing management of patient with neurological disorders</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of the</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
		clinical manifestation, diagnostic measures & management of patients with neurological disorders	<p>neurological system.</p> <ul style="list-style-type: none"> <li>• <b>Nursing Assessment:</b> history ,physical and neurological assessment.</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management(Nursing process including nursing procedures).</li> </ul> <p>❖ <b>Disorders of Spine &amp; Spinal Cord</b></p> <ul style="list-style-type: none"> <li>➤ <b>Spinal Injury:</b> Paraplegia, Hemiplegia, Quadriplegia</li> <li>➤ Spinal Cord Compression</li> <li>➤ <b>Peripheral Neuropathies:</b> Guillain Bare'e Syndrome</li> <li>➤ Herniation Of Intervertebral Disc</li> <li>➤ Cranial, Spinal Neuropathies- Bell's Palsy, Trigeminal Neuralgia</li> <li>➤ Tumours of spinal cord</li> </ul> <p>❖ <b>Disorders of Brain</b></p> <ul style="list-style-type: none"> <li>➤ Tumours of brain</li> <li>➤ Intracranial &amp; cerebral aneurysms</li> <li>➤ Cerebro vascular accident(CVA)</li> <li>➤ Degenerative diseases</li> <li>➤ Headache</li> <li>➤ Head injury</li> <li>➤ Altered level of consciousness</li> <li>➤ Congenital malformation</li> </ul> <p>❖ <b>Infections</b></p> <ul style="list-style-type: none"> <li>➤ meningitis,</li> <li>➤ encephalitis,</li> <li>➤ brain abscess,</li> <li>➤ neurocysticercosis</li> </ul> <p>❖ <b>Movement disorder</b></p> <ul style="list-style-type: none"> <li>➤ chorea</li> <li>➤ seizures</li> <li>➤ epilepsy's</li> </ul> <p>❖ <b>Myasthenia gravis</b></p> <p>❖ Multiple sclerosis</p> <p>❖ Disorders of Elderly</p> <ul style="list-style-type: none"> <li>○ Delirium</li> <li>○ Dementia</li> <li>○ Alzheimer's disease</li> <li>○ Parkinson's disease</li> </ul> <ul style="list-style-type: none"> <li>• Role of nurse in communicating with the patients with neurological deficit</li> <li>• Rehabilitation of patients with neurological deficit</li> <li>• Role of nurse in long stay facility(institutions) and at home</li> </ul>	<p>Charts, graphs</p> <ul style="list-style-type: none"> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> <li>• Visit to rehabilitation centre</li> </ul>	<ul style="list-style-type: none"> <li>• Short notes</li> <li>• Short answer</li> </ul>
IV	10	<ul style="list-style-type: none"> <li>• Describe the etiology, pathophysiology,</li> </ul>	<p><b>Nursing Management Of Patient With burns, reconstructive and cosmetic surgery</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of the</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
		clinical manifestation, diagnostic measures & management of patients with Burns, reconstructive and cosmetic surgery	<p>skin, connective tissues and various deformities.</p> <ul style="list-style-type: none"> <li>• Nursing assessment: history and physical assessment and assessment of burns and fluid and electrolyte loss.</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management (Nursing process including nursing procedures).</li> <li>• Types of reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes.</li> <li>• Role of nurse</li> <li>• Legal aspects</li> <li>• Rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Explain using Charts, graphs</li> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> </ul>	<p>question</p> <ul style="list-style-type: none"> <li>• Short notes</li> <li>• Short answer</li> </ul>
V	15	<ul style="list-style-type: none"> <li>• Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures &amp; management of patients with oncology</li> </ul>	<p><b>Nursing Management Of Patients With oncological conditions</b></p> <ul style="list-style-type: none"> <li>• Structure &amp; characteristics of normal &amp; cancer cells</li> <li>• <i>Nursing assessment</i> – history &amp; physical assessment</li> <li>• <i>Prevention, screening, early detection, warning signs of cancer</i></li> <li>• <i>Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and nursing management (Nursing process including nursing procedures).</i></li> <li>• <i>Common malignancies of various body systems ;</i> <ul style="list-style-type: none"> <li>➤ Oral Cancer</li> <li>➤ Cancer Larynx</li> <li>➤ Cancer Lungs</li> <li>➤ Cancer Stomach</li> <li>➤ Cancer Liver</li> <li>➤ Cancer Colon</li> <li>➤ Hodgkin's Lymphoma</li> <li>➤ Leukemia</li> <li>➤ Cancer Breast</li> <li>➤ Cancer Cervix</li> <li>➤ Cancer Ovary</li> <li>➤ Cancer Uterus</li> <li>➤ Cancer Bladder</li> <li>➤ Cancer Prostrate</li> <li>➤ Glioma</li> <li>➤ Cancer Of Kidney</li> <li>➤ Sarcoma</li> </ul> </li> <li>• Oncological emergencies</li> <li>• Modalities of treatment</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
			<ul style="list-style-type: none"> <li>❖ Immunotherapy</li> <li>❖ Chemotherapy</li> <li>❖ Radiotherapy</li> <li>❖ Surgical interventions</li> <li>❖ Stem cell &amp; bone marrow transplants</li> <li>❖ Gene therapy</li> <li>❖ Other forms of treatment</li> <li>• Psycho social aspects of cancer</li> <li>• Rehabilitation</li> <li>• Palliative care ; symptom &amp; pain management , nutritional support</li> <li>• Home care</li> <li>• Hospice care</li> <li>• Stomal therapy</li> </ul>		
VI	15	<ul style="list-style-type: none"> <li>• Describe the organization of emergency and disaster management care services</li> <li>• Describe the role of nurse in disaster management</li> <li>• Describe the role of nurse in management of common Emergencies</li> </ul>	<p><b>Nursing management of patient in emergency and disaster situations.</b></p> <ul style="list-style-type: none"> <li>• Concepts and principles of disaster nursing</li> <li>• Causes and types of disaster : natural and man made <ul style="list-style-type: none"> <li>❖ Earthquakes, floods, epidemics, cyclones.</li> <li>❖ Fire , explosions, accidents</li> <li>❖ Violence, terrorism; biochemical, war</li> </ul> </li> <li>• Policies related to emergency / disaster management at international, national, state, institutional level.</li> <li>• <b>Disaster Management :</b> <ul style="list-style-type: none"> <li>❖ Team, guidelines, protocols, equipments, resources.</li> <li>❖ Coordination &amp; involvement of ; community, various govt., department, non-govt. organization &amp; international agencies.</li> <li>❖ <i>Role of nurse</i> : working</li> <li>❖ Legal aspects of Disaster Nursing</li> <li>❖ Impact on health &amp; after effects ; Post Traumatic Stress Disorder</li> <li>❖ Rehabilitation ; Physical, Psychosocial, Financial, Relocation</li> </ul> </li> <li>• <b>Emergency Nursing :</b> <ul style="list-style-type: none"> <li>• Concept, priorities, principles &amp; scope of emergency nursing</li> <li>• Organization of emergency services: physical set up, staffing, equipment &amp; supplies, protocols, Concepts of triage &amp; role of triage nurse.</li> <li>• Coordination &amp; involvement of different departments &amp; facilities</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> <li>• Disaster management</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
			<ul style="list-style-type: none"> <li>• <i>Nursing assessments</i> – history &amp; physical assessments.</li> <li>• Etiology, Pathophysiology, Clinical manifestation, diagnosis, medical and surgical treatment modalities, alternative therapies, dietetics and Nursing Management (Nursing process including nursing procedures) of medical and surgical emergencies. <ul style="list-style-type: none"> <li>➤ Principles of emergency management</li> <li>➤ Common Emergencies</li> <li>➤ Respiratory Emergencies</li> <li>➤ Cardiac Emergencies</li> <li>➤ Shock &amp; Haemorrhage</li> <li>➤ Pain</li> <li>➤ Poly-Trauma, road accidents, crush injuries, wound.</li> <li>➤ Bites</li> <li>➤ Poisoning ; food, gas, drugs &amp; chemical poisoning.</li> <li>➤ Seizures</li> <li>➤ <i>Thermal Emergencies</i> ; Heat Strokes &amp; Cold Injuries</li> <li>➤ Paediatric emergencies</li> <li>➤ Psychiatric emergencies</li> <li>➤ Obstretical emergencies</li> <li>➤ Violence, abuse, sexual assault</li> <li>➤ Cardiopulmonary resuscitation</li> <li>➤ Crisis intervention</li> </ul> </li> <li>• Role of the nurse ; communication &amp; interpersonal relations</li> <li>• Medico-Legal Aspects</li> </ul>		
VII	10	<ul style="list-style-type: none"> <li>• Describe the organization of critical care units</li> <li>• Describe the role of nurse in management of patients critical care units</li> </ul>	<p><b>Nursing management of patient in critical care units</b></p> <ul style="list-style-type: none"> <li>• <i>Nursing assessment</i> : history and physical assessment</li> <li>• Classification</li> <li>• Principles of critical care nursing</li> <li>• <i>Organization</i> : physical set up, policies, staffing norms</li> <li>• Protocols, equipment and supplies</li> <li>• <i>Special equipments</i>: ventilators, cardiac monitor, defibrillators</li> <li>• Resuscitation equipment</li> <li>• Infection control protocols</li> <li>• Nursing management of critically ill patient</li> <li>• BLS, Advance Cardiac Life support</li> <li>• Treatments and procedures</li> <li>• Transitional care</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, Films, Slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions/Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
			<ul style="list-style-type: none"> <li>Ethical and legal aspects in CCU</li> <li>Communication with patient and family.</li> <li>Intensive care records</li> <li>Crisis intervention</li> <li>Death and dying – coping with</li> <li>Drugs used in critical care unit.</li> </ul>		
VIII	10	<ul style="list-style-type: none"> <li>Explain the concept and problems of aging</li> </ul>	<p><b>Nursing care of the elderly</b></p> <ul style="list-style-type: none"> <li><b>Nursing assessment</b> : history and physical assessment</li> <li>Ageing</li> <li><b>Demography</b> ; myths and realities</li> <li>Concepts and theories of ageing</li> <li>Cognitive aspects of ageing</li> <li>Normal biological ageing</li> <li>Age related body systems changes</li> <li>Psychosocial aspects of ageing</li> <li>Medications and elderly</li> <li>Stress and coping in older adults</li> <li>Common health problems and nursing management</li> <li>Cardiovascular, respiratory, musculoskeletal</li> <li>Endocrine, genito-urinary, gastro intestinal</li> <li>Neurological, skin and other sensory organs <ul style="list-style-type: none"> <li>psychosocial and sexual</li> <li>abuse of elderly</li> </ul> </li> <li>Role of nurse in care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual</li> <li>role of nurse for care givers of elderly</li> <li>role of family and formal and non formal care givers</li> <li>use of aids and prosthesis (hearing aids, dentures)</li> <li>legal and ethical issues</li> <li>provisions and programs for elderly, privileges, community programs and health services</li> <li>Home and institutional care.</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Explain using Charts, graphs</li> <li>Models, Films, Slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/Seminar</li> <li>Health education</li> <li>Supervised clinical practice</li> <li>Drug book /presentation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>

## MEDICAL-SURGICAL NURSING-II (Including Geriatrics) PRACTICAL

**Placement: Third Year**

**Time: Practical – 270 hours**

<b>Practical – III</b>	<b>Internal Assessment</b>	<b>(Final Practical Exam)</b>	<b>Total Marks</b>
<b>Medical – Surgical Nursing - II Practical with Viva Voce</b>	50	50	100

**Note:**

An examiner in practical III – Medical Surgical Nursing – II Practical with viva voce need to be M.Sc. Nursing with Medical Surgical Nursing specialty & with 3 years of Collegiate / University level teaching experience.

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
ENT	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide nursing care to patients with ENT disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Perform examination of ear , nose &amp; throat</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Instillation of ear drops/ medications</li> <li>• Perform/assist with ear irrigations</li> <li>• Apply ear bandage</li> <li>• Assist with foreign body removal</li> <li>• Perform tracheostomy care</li> <li>• Teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients.</li> <li>• Nursing care plan- 1</li> <li>• Observation reports of OPD</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Observation reports of OPD</li> <li>• Completion of practical record.</li> </ul>
Ophthalmology	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide care to patients with eye disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Perform examination of eye</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Perform/assist with eye irrigations</li> <li>• Apply eye bandage</li> <li>• Apply Eye drops/ointments</li> <li>• Assist with foreign body removal</li> <li>• Teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients.</li> <li>• Nursing care plan- 1</li> <li>• Observation reports of OPD &amp; eye bank</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Observation reports of OPD/eye bank</li> <li>• Completion of practical record.</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Neurology	2	<ul style="list-style-type: none"> <li>• Provide care to patients with neurological disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Perform neurological examination</li> <li>• Use Glasgow Coma Scale</li> <li>• Preparation of patient and assisting with EEG, EMG, Skull and spine X-rays</li> <li>• Assisting in MRI</li> <li>• Assisting with Lumber puncture</li> <li>• Assist with therapeutic procedures</li> <li>• Teach patients and families</li> <li>• Participate in rehabilitation programme</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients.</li> <li>• Case study/Case Presentation -1</li> <li>• Health Teaching-1</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Case study and Health Teaching</li> <li>• Completion of practical record.</li> </ul>
Burn Unit	1	<ul style="list-style-type: none"> <li>• Provide care to patients with burns</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the burn patient <ul style="list-style-type: none"> <li>▪ Percentage of burns</li> <li>▪ Degree if burns</li> </ul> </li> <li>• Fluid and electrolyte replacement therapy <ul style="list-style-type: none"> <li>▪ Assess</li> <li>▪ Calculate</li> <li>▪ Replace</li> <li>▪ Record intake/output</li> <li>▪ Percentage of burns</li> </ul> </li> <li>• Care of Burn wound <ul style="list-style-type: none"> <li>▪ Bathing</li> <li>▪ Dressing</li> </ul> </li> <li>• Perform active and passive exercises</li> <li>• Practice medical and surgical asepsis</li> <li>• Counsel and Teach patients and families</li> <li>• Participate in rehabilitation programme</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 1-2 assigned patients.</li> <li>• Nursing Care Plan-1</li> <li>• Observation report of burn unit</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Care plan and observation report</li> <li>• Completion of practical record.</li> </ul>
Oncology Unit	1	<ul style="list-style-type: none"> <li>• Provide care to patients with cancer</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Screen for common cancers – TNM classification</li> <li>• Assist with diagnostic procedures <ul style="list-style-type: none"> <li>▪ Biopsies</li> <li>▪ Pap smear</li> <li>▪ Bone-marrow aspiration</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients.</li> <li>• Nursing Care Plan-1</li> <li>• Observation report of cancer unit</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Care</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			<ul style="list-style-type: none"> <li>• Breast examination</li> <li>• Assist with therapeutic procedures</li> <li>• Participates in various modalities of treatment <ul style="list-style-type: none"> <li>▪ Chemotherapy</li> <li>▪ Radiotherapy</li> <li>▪ Pain management</li> <li>▪ Stomal therapy</li> <li>▪ Hormonal therapy</li> <li>▪ Immuno therapy</li> <li>▪ Gene therapy</li> <li>▪ Alternative therapy</li> </ul> </li> <li>• Participate in palliative care</li> <li>• Counsel and Teach patients and families <ul style="list-style-type: none"> <li>▪ Self Breast Examination</li> <li>▪ Warning signs</li> </ul> </li> <li>• Participate in rehabilitation program</li> </ul>		<ul style="list-style-type: none"> <li>plan and observation report</li> <li>• Completion of practical record.</li> </ul>
Critical Care Unit	2	<ul style="list-style-type: none"> <li>• Provide care to critically ill patients</li> <li>• Counsel patients &amp; families for grief &amp; bereavement</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring of patients in ICU</li> <li>• Maintain flow sheet</li> <li>• Care of patient on ventilators</li> <li>• Perform Endotracheal suction</li> <li>• Demonstrates use of ventilators, cardiac monitors etc.</li> <li>• Collect specimens &amp; interprets ABG analysis</li> <li>• Assist with arterial puncture</li> <li>• Maintain CVP line</li> <li>• Pulse oximetry</li> <li>• CPR – ACLS</li> <li>• Defibrillators</li> <li>• Pacemakers</li> <li>• Bag-mask ventilation</li> <li>• Emergency tray/ trolley – Crash cart</li> <li>• Administration of drugs <ul style="list-style-type: none"> <li>▪ Infusion pump</li> <li>▪ Epidural</li> <li>▪ Intrathecal</li> <li>▪ Intracardiac</li> </ul> </li> <li>• Total parenteral therapy</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 1 assigned patients.</li> <li>• Observation report of critical care unit</li> <li>• Drug Book</li> </ul>	<ul style="list-style-type: none"> <li>• Assess each skill with checklist</li> <li>• Assess performance with rating scale</li> <li>• Evaluation of observation report</li> <li>• Completion of practical record.</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			<ul style="list-style-type: none"> <li>• Chest physiotherapy</li> <li>• Perform active &amp; passive exercises</li> <li>• Counsel the patient and family in dealing with grieving &amp; bereavement</li> </ul>		
Casualty/ Emergency	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide care to patients in emergency &amp; disaster situation</li> <li>• Counsel patients &amp; families for grief &amp; bereavement</li> </ul>	<ul style="list-style-type: none"> <li>• Practice ‘triage’</li> <li>• Assist with assessment, examination, investigations &amp; their interpretations, in emergency &amp; disaster situations</li> <li>• Assist in documentations</li> <li>• Assist in legal procedures in emergency unit</li> <li>• Participate in managing crowd</li> <li>• Counsel the patient and family in dealing with grieving &amp; bereavement</li> </ul>	<ul style="list-style-type: none"> <li>• Observation report of emergency unit</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Evaluation of observation report</li> <li>• Completion of practical record.</li> </ul>

# CHILD HEALTH NURSING

**Placement: Third Year**

**Time: Theory – 90 hours**  
**Practical – 270 hours**

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XV	Child Health Nursing	25	75	100

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration	Max. Marks (External Exam)
XV	Child Health Nursing	3 hours	75

**Question paper pattern**

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

**Note:** An examiner / paper setter in the subject of Paper –XIV Child Health Nursing need to be M.Sc. Nursing with Child Health/Pediatric Nursing specialty & with 3 years of collegiate or Univ. level teaching experience.

**Course Description:** This course is designed for developing an understanding of the modern approach to child-care, identification, prevention and nursing management of common health problems of neonates and children.

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching Learning Activities	Assessment Methods
I.	15	<ul style="list-style-type: none"> <li>• Explain the modern concept of child care &amp; principles of Child Health Nursing</li> <li>• Describe national policy programs &amp; legislation in relation to child health &amp; welfare.</li> <li>• List major causes of death during infancy, early &amp; late childhood</li> <li>• Describe the major functions &amp; role of the pediatric nurse in caring for a hospitalized</li> </ul>	<p><b>Introduction: Modern concepts of child care</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Historical development of child health</li> <li>• Philosophy &amp; Modern concept of child care.</li> <li>• Cultural and religious considerations in child care.</li> <li>• National policy and legislations in relation to child health and welfare.</li> <li>• National programmes and agencies related to welfare services to the children.</li> <li>• Internationally accepted rights of the child</li> <li>• Changing trends in hospital care, preventive, promotive and curative aspect of child health.</li> <li>• Child morbidity and mortality rates.</li> <li>• Difference between an adult and child which affect response to illness.                             <ul style="list-style-type: none"> <li>-Physiological</li> <li>-Psychological</li> <li>-Social</li> <li>-Immunological</li> </ul> </li> <li>• Hospital environment for sick child.</li> <li>• Impact of hospitalization on the child and family.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration of common paediatric procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with checklist</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching Learning Activities	Assessment Methods
		<p>child.</p> <ul style="list-style-type: none"> <li>Describe the principles of child health nursing</li> </ul>	<ul style="list-style-type: none"> <li>Communication techniques for children.</li> <li>Methods of pain assessment in children. <ul style="list-style-type: none"> <li>FACES pain rating scale</li> <li>FLACC scale</li> <li>Numerical scale</li> </ul> </li> <li>Principles of pre and postoperative care of infants and children.</li> <li>Grief and bereavement.</li> <li>The role of a child health nurse in caring for a hospitalized child.</li> </ul>		
<b>II.</b>	<b>20</b>	<ul style="list-style-type: none"> <li>Describe the normal growth and development of children at different ages</li> <li>Identify the needs of children at different ages &amp; provide parental guidance</li> <li>Identify the nutritional needs of children at different ages &amp; ways of meeting needs</li> <li>Appreciate the role of play for normal &amp; sick children</li> <li>Appreciate the preventive measures and strategies for children</li> </ul>	<p><b>The healthy child</b></p> <ul style="list-style-type: none"> <li>Definition and principles of growth and development.</li> <li>Factors affecting growth and development.</li> <li>Growth and development from birth to adolescence.</li> <li>Growth and developmental theories. (Freud, Erickson, Jean Piaget, Kohlberg)</li> <li>The need of normal children through the stages of developmental and parental guidance.</li> <li>Nutritional needs of children and infants. <ul style="list-style-type: none"> <li>breast feeding</li> <li>exclusive breast feeding</li> <li>Supplementary / artificial feeding and weaning.</li> </ul> </li> <li>Baby friendly hospital concept.</li> <li>Accidents; causes and prevention</li> <li>Types and value of play and selection of play material</li> <li>Preventive immunization, immunization programme and cold chain.</li> <li>Preventive pediatrics</li> <li>Care of under five and Under-five Clinics /Well-baby clinics.</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Developmental study of infant and children</li> <li>Observation study of normal &amp; sick child</li> <li>Field visit to Anganwadi, child guidance clinic</li> <li>Film show on breast feeding</li> <li>Clinical practice/field</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of field visits and developmental study reports</li> </ul>
<b>III.</b>	<b>15</b>	<ul style="list-style-type: none"> <li>Provide care to normal and high risk neonates</li> <li>Perform neonatal resuscitation</li> <li>Recognize &amp; manage common neonatal problems</li> </ul>	<p><b>Nursing care of neonate:</b></p> <ul style="list-style-type: none"> <li>Appraisal of Newborn</li> <li>Nursing care of a normal new born / essential new born care.</li> <li>Neonatal resuscitation</li> <li>Nursing management of low birth weight baby.</li> <li>Kangaroo mother care</li> <li>Nursing management of common neonatal disorder. <ul style="list-style-type: none"> <li>Hyperbilirubinemia</li> <li>Hypothermia hyperthermia</li> <li>Metabolic disorder</li> <li>Neonatal infections</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Workshop on neonatal resuscitation</li> <li>Demonstration</li> <li>Practice Session</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of skills with checklist</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>- Neonatal seizures</li> <li>- Respiratory distress syndrome</li> <li>• Organization of neonatal care unit.</li> <li>• Identification and Nursing management of congenital malformations.</li> </ul>		
IV.	10		<b>Integrated management of neonatal and childhood management.</b>		
V.	20	<ul style="list-style-type: none"> <li>• Provide nursing care in common diseases</li> <li>• Identify measures to prevent common childhood diseases including immunization</li> </ul>	<b>Nursing management in common childhood diseases.</b> <ul style="list-style-type: none"> <li>• Respiratory system: <ul style="list-style-type: none"> <li>a) Congenital disorder :Tracheoesophageal fistula, Diaphragmatic hernia</li> <li>b) Others: - Acute naso-pharyngitis, Bronchitis, bronchiolitis, Tonsillitis, Bronchopneumonia, asthma</li> </ul> </li> <li>• Cardiovascular system:- <ul style="list-style-type: none"> <li>a) Congenital heart diseases: Cyanotic and Acyanotic.</li> <li>b) Others: - Rheumatic fever and Rheumatic heart disease, Congestive cardiac failure.</li> </ul> </li> <li>• Digestive system:- <ul style="list-style-type: none"> <li>a) Congenital: Cleft lip, Cleft palate, Congenital hypertrophic pyloric stenosis, Megacolon, Malabsorption syndrome, Imperforate anus</li> <li>b) Others: Gastroenteritis, Diarrhea, Vomiting, Intestinal obstruction, Hepatic diseases, intestinal parasites.</li> </ul> </li> <li>• Genitourinary urinary system: <ul style="list-style-type: none"> <li>a) Congenital : Wilms tumor, Extrophy of bladder, Hypospadiasis, Epispadiasis</li> <li>b) Others: Nephrotic syndrome, Acute glomerulo nephritis, renal failure</li> </ul> </li> <li>• Nervous system: <ul style="list-style-type: none"> <li>a) Congenital: Spinabifida, Hydrocephalous.</li> <li>b) Others: Meningitis, Convulsive disorders (convulsions and seizures), Cerebral palsy, Reye's syndrome, Mental deficiency, Encephalitis, head injury.</li> </ul> </li> <li>• Orthopedic disorders: Club foot, Hip dislocation and Fracture.</li> <li>• Disorder of eye, ear and skin,: Otitismedia, ROP, atopic dermatitis</li> <li>• Child health emergencies: Poisoning, Foreign bodies, Hemorrhage, Burns and Drowning.</li> <li>• Nursing care of infant and children with HIV/AIDS.</li> <li>• Endocrine system: Growth hormone insufficiency, Adrenal insufficiency, Juvenile Diabetes mellitus, Hyper and Hypo-thyroidism.</li> <li>• Hematological condition <ul style="list-style-type: none"> <li>a) Congenital: Hemophilia, thalassemia.</li> <li>b) Others: Anemia, Leukemia, Idiopathic</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with checklist</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching Learning Activities	Assessment Methods
			thrombocytopenia, purpura <ul style="list-style-type: none"> <li>• Genetic Disorders: Down's syndrome, Klinefelters and Turners syndrome</li> <li>• Nutritional deficiency diseases: Malnutrition, Vitamin deficiencies, Rickets, Scurvy and Vit A deficiency.</li> <li>• Inborn error of metabolism : Phenylketonuria, galactosemia, Congenital hypothyroidism.</li> <li>• Communicable diseases in children, their identification, nursing management in hospital, in home and prevention: Measles, Small pox, Chickenpox, Mumps, Poliomyelitis, Diphtheria, Tetanus, Pertussis, and Tuberculosis.</li> </ul>		
VI	10	<ul style="list-style-type: none"> <li>• Manage the child with behavioral &amp; social problems</li> <li>• Identify the social &amp; welfare services for challenged children</li> </ul>	<b>Management of behavior and social problems in children.</b> <ul style="list-style-type: none"> <li>• Child Guidance clinic</li> <li>• Common behavior disorders in children and management               <ul style="list-style-type: none"> <li>- Enuresis and Encopresis</li> <li>- Nervousness</li> <li>- Nail biting</li> <li>- Thumb sucking</li> <li>- Temper tantrum</li> <li>- Stealing</li> <li>- Aggressiveness</li> <li>- Juvenile delinquency</li> <li>- School phobia</li> <li>- Learning disability</li> </ul> </li> <li>• Psychiatric disorders in children and management.               <ul style="list-style-type: none"> <li>- Childhood schizophrenia</li> <li>- Childhood depression</li> <li>- Conversion reaction</li> <li>- Posttraumatic stress disorder</li> <li>- Autism</li> </ul> </li> <li>• Eating disorder in children and management.               <ul style="list-style-type: none"> <li>- Obesity</li> <li>- Anorexia nervosa</li> <li>- Bulimia</li> </ul> </li> <li>• Management of challenged children.               <ul style="list-style-type: none"> <li>- Mentally</li> <li>- Physically</li> <li>- Socially</li> <li>- Child abuse</li> </ul> </li> <li>• Welfare services for challenged children in India.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Field visits to child guidance clinics, school for mentally &amp; physically, socially challenged</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of field reports</li> </ul>

# CHILD HEALTH NURSING – PRACTICAL

**Placement: Third Year**

**Time: Practical – 270 hours (9 weeks)**

<b>Practical – IV</b>	<b>Internal Assessment</b>	<b>(Final Practical Exam)</b>	<b>Total Marks</b>
<b>Child Health Nursing Practical with Viva Voce</b>	50	50	100

**Note:** An examiner in practical IV – Child Health Nursing – Practical with viva voce need to be M.Sc. Nursing with Child Health / Pediatric Nursing specialty & with 3 years of Collegiate / University level teaching experience.

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Paediatric Medicine Ward	3	<ul style="list-style-type: none"> <li>• Provide nursing care to children with various medical disorders</li> <li>• Counsel &amp; educate parents</li> </ul>	<ul style="list-style-type: none"> <li>• Taking paediatric history</li> <li>• Physical examination &amp; assessment of children</li> <li>• Administer oral, I/M, &amp; I/V. medicine/ fluids</li> <li>• Calculation of fluid replacement</li> <li>• Prepare different strengths of I/V fluids</li> <li>• Apply restraints</li> <li>• Administer O<sub>2</sub> 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> <li>• Assist with common diagnostic procedures</li> <li>• Teach mothers/ parents                             <ul style="list-style-type: none"> <li>❖ Malnutrition</li> <li>❖ Oral rehydration therapy</li> <li>❖ Feeding &amp; Weaning</li> <li>❖ Immunization schedule</li> <li>❖ Play therapy</li> <li>❖ Specific Disease conditions</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Give care to 3 assigned paediatric 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 performance with rating scale</li> <li>• Assess each skill with checklist OSCE/ OSPE</li> <li>• Evaluation of case study/ presentation &amp; health education session</li> <li>• Completion of activity record.</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Paediatric Surgery Ward	3	<ul style="list-style-type: none"> <li>Recognize different paediatric surgical conditions/ malformations</li> <li>Provide pre &amp; post operative care to children with common paediatric surgical conditions/ malformation</li> <li>Counsel &amp; educate parents</li> </ul>	<ul style="list-style-type: none"> <li>Calculate, prepare &amp; administer I/V fluids</li> <li>Do bowel wash</li> <li>Care for ostomies: <ul style="list-style-type: none"> <li>Colostomy Irrigation</li> <li>Ureterostomy</li> <li>Gastrostomy</li> <li>Enterostomy</li> </ul> </li> <li>Urinary catheterization &amp; drainage</li> <li>Feeding <ul style="list-style-type: none"> <li>Naso-gastric</li> <li>Gastrostomy</li> <li>Jejunostomy</li> </ul> </li> <li>Care of surgical wounds <ul style="list-style-type: none"> <li>Dressing</li> <li>Suture removal</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Give care to 3 assigned paediatric surgical patients.</li> <li>Nursing care plan- 1</li> <li>Case study/ presentation – 1</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance with rating scale</li> <li>Assess each skill with checklist OSCE/ OSPE</li> <li>Evaluation of case study/ presentation</li> <li>Completion of activity record.</li> </ul>
Pediatric OPD/Immunization room	1	<ul style="list-style-type: none"> <li>Perform assessment of children: health, developmental &amp; anthropometric</li> <li>Perform immunization</li> <li>Give health education/ nutritional education</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of children <ul style="list-style-type: none"> <li>Health assessment</li> <li>Developmental assessment</li> <li>Anthropometric assessment</li> </ul> </li> <li>Immunization</li> <li>Health / Nutritional education</li> </ul>	<ul style="list-style-type: none"> <li>Developmental study-1</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance with rating scale</li> <li>Completion of activity record.</li> </ul>
NICU & PICU	1+1	<ul style="list-style-type: none"> <li>Provide nursing care to critically ill children</li> </ul>	<ul style="list-style-type: none"> <li>Care of a baby in incubator / warmer</li> <li>Care of a child on ventilator</li> <li>Endotracheal Suction</li> <li>Chest Physiotherapy</li> <li>Administer fluids with infusuion pumps</li> <li>Total Parenteral Nutrition</li> <li>Phototherapy</li> <li>Monitoring of babies</li> <li>Recording &amp; reporting</li> <li>Cardio Pulmonary</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 performance with rating scale</li> <li>Evaluation of observation report</li> <li>Completion of activity record.</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			Resuscitation		

# MENTAL HEALTH NURSING

**Placement: Third Year**

**Time: Theory – 90 hour  
Practical – 270 hours**

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XVI	Mental Health Nursing	25	75	100

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration of exam	Max. Marks (Final Exam)
XVI	Mental Health Nursing	3 hours	75

**Question paper pattern**

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

**Note:** An examiner / paper setter in the subject of Paper –XV Mental Health Nursing need to be M.Sc. Nursing with Mental Health/Psychiatric Nursing specialty & with 3 years of Collegiate / University level teaching experience.

**Course Description:** This course is designed for developing an understanding of the modern approach to mental health, identification, prevention and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family and community.

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
<b>I</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Discuss the historical development and current trends in mental health nursing</li> <li>• Describe the epidemiology of mental health problems</li> <li>• Describe the National Mental Health Act, programmes &amp; Mental health policy</li> <li>• Discuss the scope of mental health nursing</li> <li>• Describe the concept of normal &amp; abnormal behavior</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Perspective of Mental Health and Mental Health Nursing: evolution of Mental Health Services, treatments and Nursing practices.</li> <li>• Prevalence and incidence of mental health problems and disorders.</li> <li>• Nature and scope of mental health nursing</li> <li>• Role and functions of mental health nurse in various setting and factors affecting the level of nursing practice.</li> <li>• Concept of normal and abnormal behavior.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of Field visit reports</li> </ul>
<b>II</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Defines the various terms used in mental health nursing</li> </ul>	<p><b>Principles &amp; concept of Mental Health Nursing</b></p> <ul style="list-style-type: none"> <li>• Definition: Mental Health Nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Explain using</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
		<ul style="list-style-type: none"> <li>Explain the classification of mental disorders</li> <li>Explain psycho-dynamics of maladapted behaviour</li> <li>Discuss the etiological factors, psycho-pathology of mental disorders</li> <li>Explain the principles &amp; standards of mental health nursing</li> <li>Describe the conceptual models of mental health nursing</li> </ul>	<p>and terminology used</p> <ul style="list-style-type: none"> <li>Classification of mental disorder: ICD-10/DSM IV</li> <li>Review of personality development, defense mechanisms</li> <li>Maladaptive behaviour of individuals and groups: stress, crisis and disaster(s)</li> <li>Etiology : bio-psycho-social factors</li> <li>Psychopathology of mental disorders: review of structure and function of brain, limbic system abnormal neuro transmission</li> <li>Principles of mental health nursing</li> <li>Standards of mental health nursing practice</li> <li>Conceptual models and the role of nurse: <ul style="list-style-type: none"> <li>Existential model</li> <li>Psycho-analytical models</li> <li>Behavioural models</li> <li>Interpersonal model</li> </ul> </li> </ul>	different A.V. aids.	questions
III	8	<ul style="list-style-type: none"> <li>Describe nature, purpose &amp; process of assessment of mental health status</li> </ul>	<p><b>Assessment of mental health status</b></p> <ul style="list-style-type: none"> <li>History taking</li> <li>Mental status examination</li> <li>Mini mental status examination</li> <li>Neurological examination review</li> <li>Investigation: Related Blood chemistry, EEG, ECT MRI &amp; PET</li> <li>Psychological tests</li> </ul> <p>Role &amp; responsibilities of nurse</p>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice session</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of skills with checklist</li> </ul>
IV	6	<ul style="list-style-type: none"> <li>Identify therapeutic communication techniques</li> <li>Describe therapeutic relationships</li> <li>Describe therapeutic impasse&amp; its intervention</li> </ul>	<p><b>Therapeutic communication &amp; nurse relationship</b></p> <ul style="list-style-type: none"> <li>Therapeutic communication: Types, techniques, characteristics</li> <li>Types of relationship</li> <li>Ethics &amp; responsibilities</li> <li>Elements of nurse patient contract</li> <li>Review of technique of IPR – Johari window</li> <li>Goals, phases tasks, therapeutic techniques</li> <li>Therapeutic impasse &amp; its intervention</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Role play</li> <li>Process Recording</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
V	14	<ul style="list-style-type: none"> <li>Explain treatment modalities &amp; therapies used in mental disorders &amp; role of the nurse</li> </ul>	<p><b>Treatment modalities &amp; therapies used in mental disorders</b></p> <ul style="list-style-type: none"> <li>Psycho pharmacology</li> <li>Psychological therapies: Therapeutic community, psycho therapy – individual: psycho – analytical, cognitive &amp; supportive, family group, behavioural, play,</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice session</li> <li>Clinical practice</li> <li>Group Work</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
			psycho – drama, Music, dance, recreational & light therapy, relaxation therapies: Yoga, Meditation, bio feedback <ul style="list-style-type: none"> <li>• Alternative systems of medicine</li> <li>• Occupational therapy</li> <li>• Physical therapy: electro convulsive therapy</li> <li>• Geriatric considerations &amp;</li> <li>• Role of nurse in above therapies</li> </ul>		
VI	5	<ul style="list-style-type: none"> <li>• Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of patients with schizophrenia, &amp; other psychotic disorders</li> </ul>	<b>Nursing management of patient with schizophrenia, &amp; other psychotic disorders</b> <ul style="list-style-type: none"> <li>• Classification: ICD</li> <li>• Etiology, psycho-pathology, types, clinical manifestations, diagnosis</li> <li>• Nursing assessment – History, physical &amp; mental assessment</li> <li>• Treatment modalities &amp; nursing management of patients with schizophrenia &amp; other psychotic disorders</li> <li>• Geriatric considerations</li> <li>• Follow up &amp; home care &amp; rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Case Discussion</li> <li>• Case Presentation</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of patient management problems</li> </ul>
VII	5	<ul style="list-style-type: none"> <li>• Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of patients with mood disorders</li> </ul>	<b>Nursing management of patient with mood disorders</b> <ul style="list-style-type: none"> <li>• Mood disorders: Bipolar affective disorder, Mania depression &amp; dysthymia etc</li> <li>• Etiology, psycho-pathology, clinical manifestations, diagnosis</li> <li>• Nursing assessment – history, physical, mental assessment</li> <li>• Treatment modalities &amp; nursing management of patients with mood disorders</li> <li>• Geriatric considerations</li> <li>• Follow – up &amp; home care &amp; rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Case Discussion</li> <li>• Case Presentation</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answer</li> <li>• Assessment of patient management problems</li> </ul>
VIII	8	<ul style="list-style-type: none"> <li>• Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of patients with neurotic, stress related &amp; somatization disorders</li> </ul>	<b>Nursing management of patient with neurotic, stress related &amp; somatoform disorders</b> <ul style="list-style-type: none"> <li>• Anxiety disorder, phobias, dissociation &amp; conversion disorder, obsessive compulsive disorder, somatoform disorders, post traumatic stress disorder</li> <li>• Etiology, psycho-pathology, clinical manifestations, diagnosis</li> <li>• Nursing assessment – History, physical &amp; mental assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Case Discussion</li> <li>• Case Presentation</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
			<ul style="list-style-type: none"> <li>Treatment modalities &amp; nursing management of patient with neurotic, stress related &amp; somatization disorders</li> <li>Geriatric considerations</li> <li>Follow up &amp; home care &amp; rehabilitation</li> </ul>		
<b>IX</b>	<b>5</b>	<ul style="list-style-type: none"> <li>Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of patients with substance abuse disorders</li> </ul>	<b>Nursing management of patient with substance use disorders</b> <ul style="list-style-type: none"> <li>Commonly used psychotropic substance: classification, forms, routes, action, intoxication &amp; withdrawal</li> <li>Etiology of dependence, tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis</li> <li>Nursing assessment – History, physical, Mental assessment &amp; drug assay</li> <li>Treatment (detoxification antabuse &amp; narcotic antagonist therapy &amp; harm reduction) &amp; nursing management of patient with substance used disorders</li> <li>Geriatric considerations</li> <li>Follow up &amp; home care &amp; rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Case Discussion</li> <li>Case Presentation</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of patient management problems</li> </ul>
<b>X</b>	<b>4</b>	<ul style="list-style-type: none"> <li>Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of patients with personality, sexual &amp; eating disorders</li> </ul>	<b>Nursing management of patient with personality, sexual &amp; eating disorders</b> <ul style="list-style-type: none"> <li>Classification of disorders</li> <li>Etiology, psycho-pathology characteristics, diagnosis</li> <li>Nursing assessment – History, physical, mental assessment.</li> <li>Treatment modalities &amp; nursing management of patients with personality, sexual &amp; eating disorders</li> <li>Geriatric considerations</li> <li>Follow up &amp; home care &amp; rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Case Discussion</li> <li>Case Presentation</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of patient management problems</li> </ul>
<b>XI</b>	<b>6</b>	<ul style="list-style-type: none"> <li>Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of childhood &amp; adolescent disorders including mental deficiency</li> </ul>	<b>Nursing management of childhood &amp; adolescent disorders including mental deficiency</b> <ul style="list-style-type: none"> <li>Classification</li> <li>Etiology, psycho-pathology characteristics, diagnosis nursing assessment – History, physical, mental &amp; IQ assessment</li> <li>Treatment modalities &amp; nursing management of childhood disorders</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Case Discussion</li> <li>Case Presentation</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
			including mental deficiency Follow up & home care & rehabilitation		
XII	5	<ul style="list-style-type: none"> <li>Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria &amp; management of organic brain disorders</li> </ul>	<b>Nursing management of organic brain disorders</b> <ul style="list-style-type: none"> <li>Classification: ICD</li> <li>Etiology, psycho-pathology, clinical features, diagnosis &amp; differential diagnosis (Delirium, Dementia, Parkinsons, Alzheimers&amp; Seizures disorder)</li> <li>Nursing assessment – History, physical, mental &amp; neurological assessment</li> <li>Treatment modalities &amp; nursing management of organic brain disorders</li> <li>Geriatric considerations</li> <li>Follow up &amp; home care &amp; rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Case Discussion</li> <li>Case Presentation</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answer</li> <li>Assessment of patient management problems</li> </ul>
XIII	6	<ul style="list-style-type: none"> <li>Identify psychiatry emergency &amp; carry out crisis intervention</li> </ul>	<b>Psychiatric emergencies &amp; crisis intervention</b> <ul style="list-style-type: none"> <li>Type of psychiatric emergencies &amp; their management</li> <li>Stress adaptation model: stress &amp; stressor, coping, resources &amp; mechanism</li> <li>Grief: theories of grieving process, principles, techniques of counselling</li> <li>Types of crisis</li> <li>Crisis intervention: principles, techniques &amp; process</li> <li>Geriatric considerations role &amp; responsibilities of nurse</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice session</li> <li>Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
XIV	4	<ul style="list-style-type: none"> <li>Explain legal aspects applied in mental health settings &amp; role of the nurse</li> </ul>	<b>Legal issues in mental health nursing</b> <ul style="list-style-type: none"> <li>The mental health Act 1987: Act, sections, articles &amp; their implications etc.</li> <li>Indian Lunacy Act 1912</li> <li>Rights of mentally ill clients</li> <li>Forensic psychiatry</li> <li>NDPS Act</li> <li>Admission &amp; discharge procedures</li> <li>Role &amp; responsibilities of nurse</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Case Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
XV	4	<ul style="list-style-type: none"> <li>Describe the model of preventive psychiatry</li> <li>Describes community mental health services &amp; role of the nurse</li> </ul>	<b>Community mental health nursing</b> <ul style="list-style-type: none"> <li>Development of community mental health services</li> <li>Institutionalization versus deinstitutionalization</li> <li>Model of preventive psychiatry: Levels of prevention</li> <li>Mental health services available at</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Clinical/Field practice</li> <li>Field visits to mental health service agencies</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of the field visit reports</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Content	Teaching Learning Activity	Assessment methods
			<p>the primary, secondary, tertiary levels including rehabilitation &amp; role of nurse</p> <ul style="list-style-type: none"> <li>• Mental health agencies: Government &amp; voluntary, National &amp; International</li> <li>• Mental health nursing issues for special populations: Children, Adolescence, Women, Elderly, Victims of violence &amp; Abuse, Handicapped, HIV/ AIDS etc</li> </ul>		

# MENTAL HEALTH NURSING – PRACTICAL

**Placement: Third Year**

**Time: Practical – 270 hours (9 weeks)**

<b>Practical – V</b>	<b>Internal Assessment</b>	<b>(Final Practical Exam)</b>	<b>Total Marks</b>
<b>Mental Health Nursing Practical with Viva Voce</b>	50	50	100

**Note:**

An examiner in practical V – Mental Health Nursing practical with viva voce need to be M.Sc. Nursing with Mental Health / Psychiatric Nursing specialty with 3 years of Collegiate / University level teaching experience.

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Psychiatric OPD	<b>1</b>	<ul style="list-style-type: none"> <li>• Assess patients with mental health problems</li> <li>• Observe &amp; assist in therapies</li> <li>• Counsel &amp; educate patient &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• History Taking</li> <li>• Perform mental status examination(MSE)</li> <li>• Assist in psychometric assessment</li> <li>• Perform neurological examination</li> <li>• Observe &amp; assist in therapies</li> <li>• Teach patients &amp; family members</li> </ul>	<ul style="list-style-type: none"> <li>• History taking &amp; mental status examination-2</li> <li>• Health Education -1</li> <li>• Observation Report of OPD</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of health education</li> <li>• Assessment of Observation Report</li> <li>• Completion of activity record.</li> </ul>
Child Guidance clinic	<b>1</b>	<ul style="list-style-type: none"> <li>• Assessment of children with mental health problems</li> <li>• Counsel &amp; educate children , families &amp; significant others</li> </ul>	<ul style="list-style-type: none"> <li>• History Taking</li> <li>• Assist in psychometric assessment</li> <li>• Observe &amp; assist in therapies</li> <li>• Teach family &amp; significant others</li> </ul>	<ul style="list-style-type: none"> <li>• Case Work-1</li> <li>• Observation Report of different therapies-1</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of observation report</li> </ul>
Inpatient Ward	<b>6</b>	<ul style="list-style-type: none"> <li>• Assess patients with mental health problems</li> <li>• Provide nursing care</li> </ul>	<ul style="list-style-type: none"> <li>• History Taking</li> <li>• Perform mental status examination(MSE)</li> <li>• Assist in psychometric assessment</li> <li>• Record therapeutic communication</li> </ul>	<ul style="list-style-type: none"> <li>• Give care to 2-3 patients with various mental disorders</li> <li>• Case study-1</li> <li>• Care Plan-2</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
		<p>to patients with various mental health problems</p> <ul style="list-style-type: none"> <li>• Assist in various therapies</li> <li>• Counsel &amp; educate patients, families &amp; significant others</li> </ul>	<ul style="list-style-type: none"> <li>• Administer medications</li> <li>• Assist in Electro Convulsive Therapy</li> <li>• Participate in all therapies</li> <li>• Prepare patient for Activities of Daily Living(ADL)</li> <li>• Conduct admission &amp; Discharge counselling</li> <li>• Counsel &amp; teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Clinical Presentation-1</li> <li>• Process Recording-2</li> <li>• Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation of case study, care plan, clinical presentation , process recording</li> <li>• Completion of activity record.</li> </ul>
Community Psychiatry	1	<ul style="list-style-type: none"> <li>• Identify patients with various mental health problems</li> <li>• Motivate patients for early treatment &amp; follow up</li> <li>• Assist in follow up clinic</li> <li>• Counsel &amp; educate patient, family &amp; community</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct case work</li> <li>• Identify individuals with mental health problems</li> <li>• Assist in mental health camps &amp; clinics</li> <li>• Counsel &amp; Teach family members, patients &amp; community</li> </ul>	<ul style="list-style-type: none"> <li>• Case Work-1</li> <li>• Observation Report of field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Evaluation of case work &amp; observation report</li> <li>• Completion of activity record.</li> </ul>

# Obstetrical & Gynecological Nursing including Midwifery

Placement: Third year

Time: Theory – 90 hours  
Practical – 360 hours

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XVII	Obstetrical & Gynecological Nursing including Midwifery	25	75	100

## Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XVII	Obstetrical & Gynecological Nursing including Midwifery	3 hours	75

## Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

## Note:

An examiner / paper setter in the subject of Paper –XVI Midwifery and Obstetrical Nursing need to be M.Sc. Nursing with Midwifery / Obstetrical Nursing specialty & with minimum of 3 years collegiate / university level teaching experience.

**Course Description:** This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant women during antenatal, intranatal and postnatal periods in hospital and community settings. It also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme.

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
I.	2	<ul style="list-style-type: none"> <li>Recognize the trends &amp; issues in midwifery &amp; obstetrical nursing</li> </ul>	<p><b>Introduction to midwifery and obstetrical nursing:</b></p> <ul style="list-style-type: none"> <li>Introduction to concepts of midwifery and obstetrical nursing.</li> <li>Trends in midwifery and obstetrical nursing.                             <ul style="list-style-type: none"> <li>Historical perspectives and current trends.</li> <li>Legal and ethical aspects.</li> <li>Preconception care and preparing for parenthood.</li> <li>Role of nurse in midwifery and obstetrical care.</li> </ul> </li> <li>National policy and legislation in</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Explain using different A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<p>relation to maternal health and welfare.</p> <ul style="list-style-type: none"> <li>• Maternal morbidity, mortality and fertility rates.</li> </ul> <p>Peri-natal morbidity and mortality rates.</p> <ul style="list-style-type: none"> <li>• Concept of family centered maternity care.</li> </ul>		
II.	5	<ul style="list-style-type: none"> <li>• Describe the anatomy &amp; physiology of female reproductive system</li> </ul>	<p><b>Review of anatomy and physiology of female reproductive system and fetal development</b></p> <ul style="list-style-type: none"> <li>• Female organs of reproduction – external genitalia, internal genital organs and their anatomical relations, musculature –blood supply, nerves, lymphatic, pelvic cellular tissue, pelvic peritoneum.</li> <li>• Physiology of menstrual cycle</li> <li>• Human sexuality</li> <li>• Fundamental of reproduction- gametogenesis ,ovulation, fertilization , implantation (embedding of the ovum ),</li> <li>• Development of the embryo</li> <li>• Development of placenta at term , structure ,functions and placental circulation, fetal sac</li> <li>• Amniotic cavity ,amnion and amniotic fluid</li> <li>• Umbilical cord</li> <li>• Anatomical variations of the placenta and the cord</li> <li>• Fetus- fetal physiology , time scale of fetal development ,</li> <li>• Fetal circulation</li> <li>• Fetal skull ,bones ,sutures and measurements</li> <li>• Female pelvis-general description of the bones, joints ,ligaments , planes of the pelvis, diameters of the true pelvis, important landmarks ,variations in pelvis shape</li> <li>• Review of genetics : genetics ,principles of heredity ,genetic disorders and counseling ,prevention and prediction of congenital malformation ,embryology related to congenital malformation</li> <li>• Role of nurse in rendering sex education</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminars</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
III.	5	<ul style="list-style-type: none"> <li>• Describe the diagnosis &amp; management of women during antenatal period.</li> </ul>	<p><b>Assessment and management of pregnancy in antenatal period</b></p> <ul style="list-style-type: none"> <li>• <b>Normal Pregnancy</b></li> <li>• Physiological changes during pregnancy               <ul style="list-style-type: none"> <li>○ Reproductive system.</li> <li>○ Cardio vascular system.</li> <li>○ Respiratory system.</li> <li>○ Urinary system.</li> <li>○ Gastro intestinal system</li> <li>○ Metabolic changes.</li> <li>○ Skeletal changes.</li> <li>○ Skin changes.</li> <li>○ Endocrine system.</li> <li>○ Psychological changes</li> <li>○ Discomfort of pregnancy</li> </ul> </li> <li>• Signs and symptoms of pregnancy- differential diagnosis.</li> <li>• Diagnosis of pregnancy- Sign and symptoms at first ,second and third trimester, Confirmatory test-immunological tests, presenting part, ,denominator</li> <li>• Obstetrical examination confirmatory test, invasive and non-invasive procedures.</li> <li>• Minor ailments during pregnancy and its management.</li> <li>• Antenatal care               <ul style="list-style-type: none"> <li>○ Objectives.</li> <li>○ Assessment.                   <ul style="list-style-type: none"> <li>- History taking</li> <li>- Physical examination</li> <li>- Antenatal examination</li> <li>- Sign of previous child birth</li> </ul> </li> <li>○ Relationship of fetus to uterus and pelvis:lie, attitude, presentation, position.</li> <li>○ Per vaginal examination.</li> </ul> </li> <li>• Screening and assessment of high risk and risk approach.</li> <li>• Antenatal preparation               <ul style="list-style-type: none"> <li>○ Diet.</li> <li>○ Exercise.</li> <li>○ Substance use</li> <li>○ Education for child birth</li> <li>○ Preparation for safe - confinement</li> <li>○ Prevention from radiation</li> <li>○ Husband and families</li> <li>○ Counselling and</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Case discussion/ presentation</li> <li>• Health talk</li> <li>• Practice session</li> <li>• Counselling session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<p>teaching.</p> <ul style="list-style-type: none"> <li>• Psycho-social and cultural aspects of pregnancy – assessment and support. <ul style="list-style-type: none"> <li>○ Adjustment to pregnancy.</li> <li>○ Teenage pregnancy.</li> <li>○ Unwed mother.</li> <li>○ Single parent.</li> <li>○ Sexual violence.</li> </ul> </li> <li>• Adoption.</li> </ul>		
IV.	10	<ul style="list-style-type: none"> <li>• Describe the physiology &amp; stages of labour.</li> <li>• Describe the management of women during intra-natal period.</li> </ul>	<p><b>Assessment and management of intra-natal period</b></p> <ul style="list-style-type: none"> <li>• Physiology of labour.</li> <li>• Mechanism of labour.</li> <li>• Management of first stage of labour <ul style="list-style-type: none"> <li>○ Signs and symptoms of labour.</li> <li>○ Duration.</li> <li>○ Preparation of labour room and women.</li> <li>○ Assessment and observation of women in labor.</li> <li>○ Partogram-Maternal and fetal monitoring</li> </ul> </li> <li>• Assessment of pain and anxiety during labour – pain management and comfort in labour.</li> <li>• Induction of labour.</li> <li>• <b>Active management of labor.</b></li> <li>• Management of second stage of labour <ul style="list-style-type: none"> <li>○ Signs and symptoms normal and abnormal.</li> <li>○ Duration.</li> <li>○ Conduction of delivery-principles and techniques.</li> <li>○ Episiotomy(only if required)</li> <li>○ Receiving the newborn. <ul style="list-style-type: none"> <li>- Neonatal resuscitation; initial steps and subsequent resuscitation.</li> <li>- Care of umbilical cord.</li> <li>- Bonding</li> <li>- Initiate feeding.</li> <li>- Screening and transportation of neonate.</li> </ul> </li> </ul> </li> <li>• Neonatal resuscitation and immediate care of the newborn after delivery.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Case discussion/ presentation</li> <li>• Simulated practice</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>• Management of third stage of labour               <ul style="list-style-type: none"> <li>○ Signs and symptoms.</li> <li>○ Duration</li> <li>○ Method of placental expulsion.</li> <li>○ Management – principles and techniques.</li> <li>○ Active management of labour.</li> </ul> </li> <li>• Examination of placenta and perineum.</li> <li>• Management of fourth stage of labour.</li> <li>• Maintenance of reports and records.</li> </ul>		
V.	5	<ul style="list-style-type: none"> <li>• Describe the physiology of puerperium.</li> <li>• Describe the management of women during post-natal period.</li> </ul>	<b>Assessment and management of women during postnatal period</b> <ul style="list-style-type: none"> <li>• Normal puerperium. Physiological changes and its management</li> <li>• Involution of uterus and other pelvic structure, lochia</li> <li>• Lactation and physiology of lactation with its management.</li> <li>• Episiotomy (if present ) different types and its care</li> <li>• Postnatal care: episiotomy care, postnatal exercise, immunization, promoting physical and emotional wellbeing.</li> <li>• Mother infant bonding</li> <li>• Family dynamics after child birth.</li> <li>• Family welfare services- methods, counseling, follow up.</li> <li>• Maintenance of records and reports.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Health talk</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>
VI.	5	<ul style="list-style-type: none"> <li>• Describe the assessment &amp; management of normal neonate.</li> </ul>	<b>Assessment and management of normal neonates</b> <ul style="list-style-type: none"> <li>• Normal neonates               <ul style="list-style-type: none"> <li>○ Physiological adaptation.</li> <li>○ Assessment and management</li> </ul> </li> <li>• Physiological adaptation of new born</li> <li>• Characteristics of newborn,</li> <li>• Immediate appraisal of newborn</li> <li>• Apgar score care of newborn</li> <li>• Initial and daily assessment.</li> <li>• Identification of congenital abnormalities and referral.</li> <li>• Essential newborn care, Thermal</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<p>regulation and prevention of infection.</p> <ul style="list-style-type: none"> <li>• Breast feeding.</li> <li>• Immunization.</li> <li>• Minor disorders of newborns and its management.</li> <li>• Levels of neonatal care and maintenance of records and reports.</li> </ul>		
<b>VII.</b>	<b>10</b>	<ul style="list-style-type: none"> <li>• Describe the identification &amp; management of women with high risk pregnancy.</li> </ul>	<p><b>Assessment and management of high-risk pregnancy</b></p> <ul style="list-style-type: none"> <li>• Screening and assessment <ul style="list-style-type: none"> <li>○ History taking</li> <li>○ Physical examination</li> <li>○ Ultrasonic</li> <li>○ Cardiotomography</li> <li>○ NST, CST</li> <li>○ Invasive procedure</li> <li>○ Non-invasive procedure</li> <li>○ Latest modalities of diagnosis: CVS, Amniography, Radiology in obstetrics, etc)</li> </ul> </li> <li>• High-risk approach</li> <li>• Levels of care: primary, secondary &amp; tertiary</li> <li>• Disorders of pregnancy <ul style="list-style-type: none"> <li>○ Hyperemesis Gravidarum</li> <li>○ Bleeding in early pregnancy</li> <li>○ Abortion</li> <li>○ Ectopic pregnancy</li> <li>○ Vesicular mole</li> </ul> </li> <li>• Antepartum hemorrhage</li> <li>• Uterine abnormality and displacement</li> <li>• Diseases complicating pregnancy <ul style="list-style-type: none"> <li>○ Medical and surgical conditions: hematological disorders in pregnancy , tuberculosis, heart disease, diabetes mellitus, thyroid dysfunction</li> <li>○ n, jaundice, asthma, proteinuria, haematuria in pregnancy, general surgery during pregnancy. .</li> <li>○ Infections -viral hepatitis, syphilis, leprosy, bacteria, parasitic and protozoal infestation in pregnancy, pyelonephritis in pregnancy, SLE Epilepsy, viral infections,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstrate using video, films, scan reports, partograph etc.</li> <li>• Case discussion/ presentation</li> <li>• Health talk</li> <li>• Practice Session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<p>HIV and AIDS, RTI, UTI, TORCH, STD.</p> <ul style="list-style-type: none"> <li>○ Gynecological disorders in pregnancy – abnormal vaginal discharge, congenital malformations, carcinoma cervix, fibroid , ovarian tumour, retroverted gravid uterus, genital prolapsed.</li> <li>○ Mental disorders <ul style="list-style-type: none"> <li>✓ Postpartum blues</li> <li>✓ Postpartum depression</li> <li>✓ Postpartum psychosis</li> </ul> </li> <li>● Toxemia of pregnancy <ul style="list-style-type: none"> <li>○ Pre-eclampsia</li> <li>○ Eclampsia</li> <li>○ Hydramnios</li> </ul> </li> <li>● Rh-incompatibility</li> <li>● Multiple pregnancy and IUGR</li> <li>● Nursing management of the mother’s with high-risk pregnancy</li> <li>● Adolescent pregnancy, elderly primigravida and grand multipara.</li> <li>● Maintenance of records and reports.</li> </ul>		
<b>VIII.</b>	<b>10</b>	<ul style="list-style-type: none"> <li>● Describe management of abnormal labour &amp; obstetrical emergencies.</li> </ul>	<p><b>Assessment and management of abnormal labour</b></p> <ul style="list-style-type: none"> <li>● Disorders in labour <ul style="list-style-type: none"> <li>● CPD and Contracted pelvis</li> <li>● Mal-presentations and mal-positions</li> <li>● Disorders in uterine contractions</li> <li>● Precipitated labour, premature labour and prolonged labour</li> <li>● Complications of 3<sup>rd</sup> stage of labour and injury to birth canal</li> </ul> </li> <li>● Obstetrical emergencies and their management <ul style="list-style-type: none"> <li>○ Cord prolapse &amp; presentation</li> <li>○ Vasa praevia</li> <li>○ Amniotic fluid embolism</li> <li>○ Rupture of the uterus</li> <li>○ Shoulder dystocia</li> <li>○ Obstetrical shock</li> </ul> </li> <li>● Obstetrical operations and techniques <ul style="list-style-type: none"> <li>○ Caesarean section</li> <li>○ Forceps</li> <li>○ Vacuum</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Case Discussion/ presentation</li> <li>● Practice Session</li> <li>● Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answer questions</li> <li>● Assessment of skills with check list</li> <li>● Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>○ Destructive operations</li> <li>○ Manual removal of placenta</li> <li>● Nursing management of the woman undergoing obstetrical operation and procedures</li> </ul>		
IX	4	<ul style="list-style-type: none"> <li>● Describe management of postnatal complications</li> </ul>	<p><b>Abnormalities during post-natal period</b></p> <ul style="list-style-type: none"> <li>● Assessment and management of women with postnatal complications <ul style="list-style-type: none"> <li>● Puerperial sepsis</li> <li>● Breast complications (abscess, engorgement, cracked nipple, etc)</li> <li>● UTI</li> <li>● Thrombo-embolic disorders</li> <li>● Sub-involution of uterus</li> <li>● Eclampsia</li> </ul> </li> <li>● Post-partum hemorrhage</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Case Discussion/ presentation</li> <li>● Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answer questions</li> <li>● Assessment of skills with check list</li> <li>● Assessment of patient management problems</li> </ul>
X	10	<ul style="list-style-type: none"> <li>● Identify the high risk neonates &amp; their nursing management.</li> </ul>	<p><b>Assessment and management of high-risk newborn</b></p> <ul style="list-style-type: none"> <li>● Protocol for admission of neonates in NICU</li> <li>● Assessment and nursing management of high risk newborn: <ul style="list-style-type: none"> <li>○ small for date, large for date, infant of diabetic mother, prematurity, postmature babies, IUGR, Asphyxia neonatrum, Respiratory distress syndrome, Hyaline membrane disease, birth injuries, congenital anomalies, congenital syphilis, newborn with HIV positive Hemolytic diseases of newborn, Infections, TORCH neonatal seizures, metabolic disorders still birth - causes and management.</li> </ul> </li> <li>● Nursing management of <ul style="list-style-type: none"> <li>● LBW</li> <li>● Pre-mature baby</li> <li>● Neonatal infections</li> <li>● Respiratory problems</li> <li>● Haemolytic disorders</li> <li>● Birth injury</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice Session</li> <li>● Case Discussion/ presentation</li> <li>● Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short notes</li> <li>● Short answer questions</li> <li>● Assessment of skills with check list</li> <li>● Assessment of patient management problems</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>• Malformations</li> <li>• Maintenance of records and report</li> <li>• Monitoring and feeding of high-risk neonates</li> <li>• Organization and management of the NICU</li> <li>• Infection control in NICU</li> </ul>		
<b>XI</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Describe indication, dosage, action, side effects &amp; nurse's responsibilities in the administration of drugs used for mothers.</li> </ul>	<b>Pharmaco-therapeutics in Obstetrics</b> <ul style="list-style-type: none"> <li>• Indication, Doses, Action, Contra-indication and side-effects of drugs</li> <li>• Effect of drugs on pregnancy, labour and puerperium</li> <li>• Nursing responsibilities in the administration of drugs in obstetrics <ul style="list-style-type: none"> <li>• Oxytocin</li> <li>• Anti-hypertensive</li> <li>• Diuretics</li> <li>• Tocolytic agents</li> <li>• Anti-convulsants</li> <li>• Anticoagulants</li> </ul> </li> <li>• Analgesia and anesthetics use in obstetrics</li> <li>• Effects of maternal medication on fetus and neonates</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug book</li> <li>• Drug presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
XII	10	<ul style="list-style-type: none"> <li>Appreciate the importance of family welfare programme</li> <li>Describe the methods of contraception &amp; role of nurse in family welfare programme.</li> </ul>	<b>Family welfare Programme</b> <ul style="list-style-type: none"> <li>Population dynamics in India</li> <li>Concepts, Aims, Importance and History of Family Welfare Programme, National Population dynamics Policy and National Education Policy</li> <li>National Family Welfare Programme <ul style="list-style-type: none"> <li>MCH</li> <li>Safe Motherhood</li> <li>ICDS</li> <li>RCH-I</li> <li>RCH-II</li> </ul> </li> <li>Organization and administration of Family Welfare Programme at <ul style="list-style-type: none"> <li>Village level</li> <li>Block level</li> <li>District level</li> <li>State level</li> <li>National level</li> </ul> </li> <li>Method of contraception, spacing, temporary, permanent and Emergency contraception</li> <li>Infertility and its management</li> <li>Motivation and counseling for Family Welfare</li> <li>Maintenance of vital statistics and latest research in contraception</li> <li>Role of national, International, voluntary and NGOs in Family Welfare Programme</li> <li>Role of nurse in Family Welfare Programme</li> <li>Training/ Supervision / Collaboration with other functionaries in community like ANMs LHVs, Anganwadi workers, TBAs (Traditional birth attendant dai)</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Demonstration</li> <li>Practice Session</li> <li>Supervised clinical practice</li> <li>Group project</li> <li>Counselling session</li> <li>Field visits</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of skills with check list</li> <li>Assessment of patient management problems</li> </ul>
XIII	10	<ul style="list-style-type: none"> <li>Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures &amp; management of patients with disorders of Female Reproductive</li> </ul>	<b>Nursing Management Of Patient With Disorders of female reproductive system (Gynecological disorders)</b> <ul style="list-style-type: none"> <li>Review of anatomy and physiology of the female reproductive system</li> <li>Nursing Assessment: History and physical assessment.</li> <li>Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Explain using Charts, graphs</li> <li>Models, Films, Slides</li> <li>Demonstration</li> <li>Practice session</li> <li>Case discussions/Seminar</li> <li>Health education</li> </ul>	<ul style="list-style-type: none"> <li>Short answers</li> <li>Short notes</li> <li>Essay type</li> <li>Assessment of skills with checklist</li> <li>Assessment of patient management problem</li> </ul>

Unit No.	Time (hrs)	Learning Objective	Contents	Teaching /Learning Activities	Assessment methods
		<p>system</p> <ul style="list-style-type: none"> <li>Describe concepts of reproductive health and family welfare programme</li> </ul>	<p>of disorders of female reproductive System</p> <ul style="list-style-type: none"> <li>Menstrual disorders</li> <li>Ovarian &amp; fallopian tube disorders</li> <li>Endometriosis</li> <li>Polyps, fibroids</li> <li>Cervical &amp; uterine tumors</li> <li>Uterine displacement</li> <li>Vaginal disorders</li> <li>Vulval disorders ;</li> <li>Menopause &amp; hormonal replacement therapy</li> <li>Abortion – natural, medical &amp; surgical abortion – MTP act</li> <li>Toxic shock syndrome</li> <li>Congenital abnormalities of female reproductive system</li> </ul> <p>Drugs used in treatment of gynecological disorder</p>	<ul style="list-style-type: none"> <li>Supervised clinical practice</li> <li>Drug book /presentation</li> </ul>	

# Obstetrical & Gynecological Nursing including Midwifery – PRACTICAL

Placement: Third year

Time: Practical – 360 hours

Practical – VI	Internal Assessment	Final Practical	Total
Midwifery & Obstetrical Nursing practical with Viva Voce	50	50	100

**Note:**

An examiner in practical VII – Midwifery & Obstetrical Nursing including midwifery – Practical with viva voce need to be M.Sc. Nursing with Midwifery / Obstetrical Nursing specialty & with minimum of 3 years collegiate / university level teaching experience.

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Antenatal clinic/OPD	2	<ul style="list-style-type: none"> <li>Assessment of pregnant women</li> </ul>	<ul style="list-style-type: none"> <li>Antenatal History Taking</li> <li>Physical Examination</li> <li>Recording of weight &amp; B.P</li> <li>Hb. &amp; Urine testing for sugar &amp; albumin</li> <li>Antenatal Examination- Abdomen &amp; Breast</li> <li>Immunization</li> <li>Assessment of risk status</li> <li>Teaching antenatal mothers</li> <li>Maintenance of antenatal records</li> </ul>	<ul style="list-style-type: none"> <li><b>*Conduct antenatal examination -30</b></li> <li>Health talk-1</li> <li>Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>Verification of findings of antenatal examination</li> <li>Completion of Case book recordings</li> </ul>
Labour room O.T.	4	<ul style="list-style-type: none"> <li>Assess woman in labour</li> <li>Carry out per-vaginal examinations</li> <li>Conduct normal deliveries</li> <li>Perform episiotomy &amp; suture it</li> <li>Resuscitate newborns</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of women in labour</li> <li>Pervaginal examinations &amp; interpretation</li> <li>Monitoring &amp; caring of woman in labour</li> <li>Maintenance of partograph</li> <li>Conduct normal delivery</li> <li>Newborn assessment &amp; immediate care</li> </ul>	<ul style="list-style-type: none"> <li><b>*Conduct normal deliveries – 20</b></li> <li><b>*Pervaginal examination – 5</b></li> <li><b>*Perform &amp; suture the episiotomies – 5</b></li> <li><b>*Resuscitate newborns – 5</b></li> <li><b>*Assist with</b></li> </ul>	<ul style="list-style-type: none"> <li>Assessment of clinical performance with rating scale</li> <li>Assessment of each skill with checklist</li> <li>Completion of case book recordings</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
		<ul style="list-style-type: none"> <li>Assist with Caesarean Sections, MTP &amp; other surgical procedures</li> </ul>	<ul style="list-style-type: none"> <li>Resuscitation of newborns</li> <li>Assessment of risk status of newborn</li> <li>Episiotomy &amp; suturing</li> <li>Maintenance of labour &amp; birth records</li> <li>Arrange for &amp; assist with Caesarean section &amp; care for woman &amp; baby during Caesarean</li> <li>Arrange for &amp; assist with MTP &amp; other surgical procedures</li> </ul>	<ul style="list-style-type: none"> <li>Caesarean Sections – 2</li> <li>*Witness abnormal deliveries – 5</li> <li>Assist with MTP &amp; other surgical procedures – 1</li> <li>Case book recordings</li> </ul>	
Postnatal Ward	4	<ul style="list-style-type: none"> <li>Provide nursing care to postnatal mother &amp; baby</li> <li>Counsel &amp; teach mother &amp; family for parenthood</li> </ul>	<ul style="list-style-type: none"> <li>Examination &amp; assessment of mother &amp; baby</li> <li>Identification of deviations</li> <li>Care of postnatal mother &amp; baby</li> <li>Perineal care</li> <li>Lactation Management</li> <li>Breast feeding</li> <li>Baby bath</li> <li>Immunization</li> <li>Teaching postnatal mother: <ul style="list-style-type: none"> <li>Mother craft</li> <li>Postnatal care</li> <li>Exercises</li> <li>Immunization</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Give care to Postnatal mothers - 20</li> <li>Health talk - 1</li> <li>Case study- 1</li> <li>Case Presentation -1</li> <li>Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of clinical performance</li> <li>Assess each skill with checklist</li> <li>Evaluation of case study, presentation &amp; health education sessions</li> <li>Completion of case book recording.</li> </ul>
Newborn nursery	2	<ul style="list-style-type: none"> <li>Provide nursing care to newborn at risk</li> </ul>	<ul style="list-style-type: none"> <li>Newborn assessment</li> <li>Admission of neonates</li> <li>Feeding of at risk neonates <ul style="list-style-type: none"> <li>Katori spoon, paldi, tube feeding, total parenteral nutrition</li> </ul> </li> <li>Thermal management of neonates –</li> </ul>	<ul style="list-style-type: none"> <li>Case Study- 1</li> <li>Observation study - 1</li> </ul>	<ul style="list-style-type: none"> <li>Assessment of clinical performance</li> <li>Assessment of each skill with checklist</li> <li>Evaluation of case study &amp; observation study</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			kangaroo mother care, care of baby in incubator <ul style="list-style-type: none"> <li>• Monitoring &amp; care of neonates</li> <li>• Administering medications</li> <li>• Intravenous therapy</li> <li>• Assisting with diagnostic procedures</li> <li>• Assisting with exchange transfusion</li> <li>• Care of baby on ventilator</li> <li>• Phototherapy</li> <li>• Infection control protocols in the nursery</li> <li>• Teaching &amp; counselling of parents</li> <li>• Maintenance of neonatal records</li> </ul>		
Family Planning Clinic	Rotation from post natal ward 1 week	<ul style="list-style-type: none"> <li>• Counsel for &amp; provide family welfare services</li> </ul>	<ul style="list-style-type: none"> <li>• Counselling technique</li> <li>• Insertion of IUD</li> <li>• Teaching on use of family planning methods</li> <li>• Arrange for &amp; assist with family planning operations</li> <li>• Maintenance of records &amp; reports</li> </ul>	<ul style="list-style-type: none"> <li>• *IUD insertion – 5</li> <li>• Observation study – 1</li> <li>• Counselling – 2</li> <li>• Simulation exercise on recording &amp; reporting - 1</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of each skill with checklist</li> <li>• Evaluation of observation study</li> </ul>
Gynaecology Ward	1	<ul style="list-style-type: none"> <li>• Provide care to patients with gynaecological disorders</li> <li>• Counsel &amp; educate patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Assist with gynaecological examination</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Teach patients and families</li> <li>• Teach patient Self Breast</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients.</li> <li>• Nursing Care Plan-1</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• Evaluation of Care plan</li> <li>• Completion of practical record.</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
			Examination <ul style="list-style-type: none"> <li>• Assist with PAP Smear Collection</li> </ul>		

<i>*Essential skill Requirements for registration as midwife to be completed</i>	<i>Number of requirements</i>
1. Antenatal examination	30
2. Conducting normal deliveries in hospital/ home/ health centre	20
3. Vaginal Examination	5
4. Episiotomy & suturing	5
5. Neonatal Resuscitation	5
6. Assist with Caesarean section	3
7. Witness/ Assist abnormal deliveries	5
8. Postnatal cases nursed in hospital/ home/ health centre	20
9. ICD insertion	5
10. Family planning counseling	2

*Note: All casebooks must be certified by supervising teacher on completion of essential requirements*

# **B.Sc. (Hons) NURSING 4<sup>th</sup> YEAR**

# COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: Fourth Year

Time: Theory - 60 Hours

Practical-30 Hours

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XVIII	Communication & Educational Technology	25	75	100

## Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XVIII	Communication & Educational Technology	3 Hours	75

## Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

## Note:

An examiner / paper setter in the subject of Paper –XII Communication & Education Technology need to M.Sc. Nursing with specialization in any nursing subject with 3 years of collegiate/ Univ. level teaching experience.

**Course Description:** This course is designed to enable students to acquire an understanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal relations, teaching individuals and groups in clinical, community health and educational settings.

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
I	3		<ul style="list-style-type: none"> <li>Describe the communication process.</li> <li>Identify techniques of effective communication</li> </ul>	<b>Review of communication Process</b> -Definitions of communication - Meaning of communication - Process of communication: Elements and channels - Types of communication - Facilitators of communication - Barriers of communication - Methods to overcome barriers of communication - Techniques of effective communication - Techniques of therapeutic communication	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Seminar</li> <li>Role plays</li> <li>Exercises with audio/ video tapes</li> </ul>	<ul style="list-style-type: none"> <li>Respond to critical incidents.</li> <li>Short answers.</li> <li>Short notes</li> </ul>
II	3		<ul style="list-style-type: none"> <li>Establish effective inter-personal relations with</li> </ul>	<b>Interpersonal relations</b> - Definitions of interpersonal relations - Dynamics of interpersonal	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Seminar</li> </ul>	<ul style="list-style-type: none"> <li>Short notes</li> <li>Short answers</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
			patients, families & co-workers.	relationship - Purposes of interpersonal relations - Types of interpersonal relationship - Phases of interpersonal relationship - Barriers of interpersonal relationship - Methods to overcome barriers of interpersonal relations - Johari Window	<ul style="list-style-type: none"> <li>• Role plays</li> <li>• Exercises with audio/ video tapes</li> <li>• Process recording</li> </ul>	
<b>III</b>	<b>3</b>		<ul style="list-style-type: none"> <li>• Develop effective human relations in context of nursing.</li> </ul>	<b>Human relations</b> - Definitions of human relations - Human relation in context of nursing - Understanding self - Social behavior - Social attitude - Motivation - Individual and groups - Group dynamics - Team work	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Sociometry</li> <li>• Group games</li> <li>• Psychometric exercises followed by discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Respond to test based on critical incidents</li> <li>• Shot notes</li> <li>• Short answers</li> </ul>
<b>IV</b>	<b>10</b>	<b>3</b>	<ul style="list-style-type: none"> <li>• Develop basic skill of counseling and guidance.</li> </ul>	<b>Guidance &amp; counselling</b> - Definitions of guidance & counseling <ul style="list-style-type: none"> <li>○ Difference of guidance</li> <li>○ Definition of counseling</li> </ul> - Difference between guidance and counseling - Purpose of guidance & counseling - Characteristics of guidance and counseling - Scope of guidance & counseling - Need of guidance & counseling - Basic principles of guidance & counseling - Types/ areas of guidance approaches - Types of counseling approaches - Organization of counseling services	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Demonstration</li> <li>• Role play on counselling in different situations followed by discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess performance in role play situations</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>- Types of counseling approaches</li> <li>- Role &amp; preparation of counselor</li> <li>- Counseling process: steps</li> <li>- Techniques &amp; tools of counseling</li> <li>- Issues for counseling in nursing</li> <li>- Managing disciplinary problems</li> <li>- Crisis interventions</li> </ul>		
V	5	2	<ul style="list-style-type: none"> <li>• Describe the philosophy &amp; principles of education.</li> <li>•</li> </ul>	<b>Principles &amp; philosophies of Education</b> <ul style="list-style-type: none"> <li>- Meaning of education</li> <li>- Aims of education</li> <li>- Functions of education</li> <li>- Educational philosophies</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Symposium</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> </ul>
VI	6		<ul style="list-style-type: none"> <li>• Explain the teaching learning process</li> </ul>	<b>Teaching-Learning Process</b> <ul style="list-style-type: none"> <li>- Meaning of learning</li> <li>- Definitions of learning</li> <li>- Concept of learning</li> <li>- Nature learning</li> <li>- Characteristics of learning</li> <li>- Principles of learning</li> <li>- Domains of learning</li> <li>- Factors influencing learning</li> <li>- Meaning of teaching</li> <li>- Concept of teaching</li> <li>- Nature teaching</li> <li>- Characteristics of good teaching</li> <li>- Principles of teaching</li> <li>- Maximums of teaching</li> <li>- Formulation of educational objectives: general &amp; Specific</li> <li>- Lesson planning</li> <li>- Class room management</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Symposium</li> <li>• Project on prepare lesson plan.</li> <li>• Practicing micro teaching</li> <li>• Exercise on writing objectives.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess lesson plans &amp; teaching sessions</li> </ul>
VI	10	10	<ul style="list-style-type: none"> <li>• Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings.</li> </ul>	<b>Methods of teaching</b> <ul style="list-style-type: none"> <li>- Definition of method of teaching</li> <li>- Lecturer method</li> <li>- Demonstration method</li> <li>- Group discussion</li> <li>- Seminar</li> <li>- Symposium</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Symposium</li> <li>• Project on planning and</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess lesson plans</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>- Panel discussion</li> <li>- Role play</li> <li>- Project method</li> <li>- Field trip</li> <li>- Workshop</li> <li>- Exhibition</li> <li>- Programmed instruction</li> <li>- Computer assisted learning</li> <li>- Micro-teaching</li> <li>- Problem based learning</li> <li>- Problem solving as method of teaching</li> <li>- Self directed learning or self instructional module</li> <li>- Simulation</li> <li>- Clinical teaching methods</li> <li>- Case method</li> <li>- Nursing rounds</li> <li>- Nursing Bedside clinics</li> <li>- Morning &amp; afternoon reports</li> <li>- Group conference</li> <li>- Nursing care conference</li> <li>- Individual conference</li> <li>- Health team</li> <li>- Process recording</li> </ul>	conducting five teaching sessions using different methods & media	& teaching sessions
<b>VII</b>	<b>10</b>	<b>8</b>	<ul style="list-style-type: none"> <li>• Prepare and use different types of educational media effectively.</li> </ul>	<b>Educational media</b> <ul style="list-style-type: none"> <li>- Definitions of audio-visual aids</li> <li>- Concept of audio-visual aids</li> <li>- Importance of audio-visual aids</li> <li>- Purposes of Audio visual aids</li> <li>- Characteristics of good audio-visual aids</li> <li>- Sources of audio-visual aids</li> <li>- Principles in use of audio-visual aids</li> <li>- Types of teaching aids</li> <li>- Graphical teaching aids <ul style="list-style-type: none"> <li>○ Chalk board/ Black board</li> <li>○ Chart</li> <li>○ Graph</li> <li>○ Poster</li> <li>○ Flash cards</li> <li>○ Flannel graph</li> <li>○ Bulletin board</li> <li>○ Cartoons</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Demonstration</li> <li>• Prepare different teaching aids – projected &amp; non-projected.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess the prepared teaching aids</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>- Three-dimensional aids:               <ul style="list-style-type: none"> <li>○ <i>Objects and specimens</i></li> <li>○ <i>Models</i></li> <li>○ <i>Puppets</i></li> <li>○ <i>Exhibition</i></li> <li>○ <i>Museum</i></li> <li>○ <i>Dioramas</i></li> </ul> </li> <li>- Printed educational aids:               <ul style="list-style-type: none"> <li>○ <i>Pamphlets</i></li> <li>○ <i>Leaflets</i></li> </ul> </li> <li>- Projected audio-visual aids:               <ul style="list-style-type: none"> <li>○ <i>Slide projector</i></li> <li>○ <i>Overhead projector</i></li> <li>○ <i>Opaque projector</i></li> <li>○ <i>Filmstrips</i></li> <li>○ <i>Television</i></li> <li>○ <i>VCR/ VCD</i></li> <li>○ <i>Camera</i></li> <li>○ <i>Microscope</i></li> <li>○ <i>LCD projector</i></li> </ul> </li> <li>- Audio educational aids:               <ul style="list-style-type: none"> <li>○ <i>Tape recorder</i></li> <li>○ <i>Public address system</i></li> <li>○ <i>Computer</i></li> </ul> </li> <li>- Guidelines for effective use of audio-visual aids</li> </ul>		
<b>VIII</b>	<b>5</b>	<b>7</b>	<ul style="list-style-type: none"> <li>• Prepare different types of questions for assessment of knowledge, skills and attitudes.</li> </ul>	<p><b>Assessment</b></p> <ul style="list-style-type: none"> <li>- Concept of measurement, assessment and evaluation</li> <li>- Meaning of assessment/evaluation</li> <li>- Types of assessment/evaluation</li> <li>- Purposes of assessment/evaluation</li> <li>- Scope of assessment/evaluation</li> <li>- Criteria for selection of evaluation technique/ method</li> <li>- Classification assessment tools and techniques</li> <li>- Essay type questions</li> <li>- Short answer questions</li> <li>- Multiple choice questions</li> <li>- Item analysis</li> <li>- Observation checklist</li> <li>- Rating scale</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Symposium</li> <li>• Demonstration</li> <li>• Exercise on designing different types of assessment tools.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess the strategies used in practice teaching sessions &amp; exercise sessions.</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				<ul style="list-style-type: none"> <li>- Practical examination</li> <li>- Viva-voce</li> <li>- Objective structured clinical examination (OSCE)</li> <li>- Attitude scale</li> <li>- Likert's scale</li> <li>- Semantic differential scale</li> </ul>		
<b>IX</b>	<b>5</b>		<ul style="list-style-type: none"> <li>• Teach individuals, groups and communities about health with their active participation.</li> </ul>	<p><b>Information, Education &amp; communication for health (IEC)</b></p> <ul style="list-style-type: none"> <li>- Health behaviors</li> <li>- Health education</li> <li>- Planning for health education</li> <li>- Health education with individual, group &amp; communities</li> <li>- Communicating health messages</li> <li>- Methods and media for communicating health message</li> <li>- Media for communicating health message</li> <li>- Using mass media</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Seminar</li> <li>• Plan &amp; conduct health education sessions for individuals, groups &amp; communities.</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Shot notes</li> <li>• Short answers</li> <li>• Assess the planning &amp; conduct of the educational session</li> </ul>

## COMMUNITY HEALTH NURSING – II

**Placement: Fourth Year**

**Time: Theory – 90 Hours  
Practical – 135 Hours**

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XIX	Community Health Nursing-II	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XIX	Community Health Nursing-II	3 hours	75

### Question paper pattern

Essay type question: 3 x 10	= 30 Marks
Short Notes : 5 x 5	= 25 Marks
MCQs : 20 x 1	= 20 Marks

### Note:

An examiner / paper setter in the subject of Paper –XI Community Health Nursing \_ II need to be M.Sc. Nursing with Community Health Nursing specialty & with 3 years of Collegiate or Univ. level teaching experience.

**Course Description:** This course is designed for students to practice community health nursing for the individual, family & groups at both urban and rural settings by using concepts and principles of health and community health nursing.

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
<b>I</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Define concept, scope, principles &amp; historical development of community health &amp; community health nursing.</li> </ul>	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Definition, concept &amp; scope of Community Health and Community Health Nursing</li> <li>• Historical development of                             <ul style="list-style-type: none"> <li>○ Community Health</li> <li>○ Community Health Nursing                                     <ul style="list-style-type: none"> <li>- Pre-independence</li> <li>- Post-independence</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short note</li> <li>• Short answers questions</li> </ul>
<b>II</b>	<b>6</b>	<ul style="list-style-type: none"> <li>• Describe health plans, policies, various health committees &amp; health</li> </ul>	<b>Health Planning and Policies and problems</b> <ul style="list-style-type: none"> <li>• National health planning in India Five Year Plans</li> <li>• Various committees and commissions on health and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Panel Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short note</li> <li>• Short answers</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		problems in India.	<p>family welfare</p> <ul style="list-style-type: none"> <li>○ Central council for health and family welfare (CCH and FW)</li> <li>○ National health policies (1983, 2002)</li> <li>○ National population policy</li> </ul> <p>• Health problems in India</p>		questions
<b>III</b>	<b>15</b>	<ul style="list-style-type: none"> <li>• Describe the system of delivery of community health services in rural &amp; urban areas</li> <li>• List the functions of various levels &amp; their staffing pattern</li> <li>• Explain the components of health services</li> <li>• Describe alternative systems of health promotion &amp; health maintenance</li> <li>• Describe the chain of referral system</li> </ul>	<p><b>Delivery of community health services</b></p> <ul style="list-style-type: none"> <li>• Planning, budgeting and material management of SCs, PHC and CHC</li> <li>• <b>Rural:</b> Organization, staffing and functions of rural health services provided by government at: <ul style="list-style-type: none"> <li>○ Village</li> <li>○ Sub centre</li> <li>○ Primary health centre</li> <li>○ Community health center/ sub divisional</li> <li>○ Hospitals</li> <li>○ District</li> <li>○ State</li> <li>○ centre</li> </ul> </li> <li>• <b>Urban:</b> Organization, staffing and functions of urban health services provided by government at: <ul style="list-style-type: none"> <li>○ Slums</li> <li>○ Dispensaries</li> <li>○ Maternal and child health centers</li> <li>○ Special clinics</li> <li>○ Hospitals</li> <li>○ Corporation/ Municipality/ Board</li> </ul> </li> <li>• Components of health services <ul style="list-style-type: none"> <li>○ Environmental sanitation</li> <li>○ Family Health Care &amp; Family health Nursing Process</li> <li>○ Health education</li> <li>○ Vital statistics</li> <li>○ M.C.H. antenatal, natal, postnatal, MTP Act, female foeticide act, child adoption act</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Visits to various health delivery systems</li> <li>• Supervised field practice</li> <li>• Panel discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short note</li> <li>• Short answers questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Family Welfare</li> <li>○ National health programmers</li> <li>○ School health services</li> <li>○ Occupational health</li> <li>○ Defence services</li> <li>○ Institutional services</li> <li>● Systems of Medicine and health care <ul style="list-style-type: none"> <li>○ Allopathy</li> <li>○ Indian system of Medicine and homeopathy</li> <li>○ Alternative health care system like yoga, meditation, social and spiritual healing etc</li> </ul> </li> <li>● Referral system</li> </ul>		
IV	25	<ul style="list-style-type: none"> <li>● Describe Community Health Nursing approaches &amp; concepts</li> <li>● Describe the roles &amp; responsibilities of Community Health Nursing personnel.</li> </ul>	<p><b>Community health nursing approaches, concepts and roles and responsibilities of nursing personnel</b></p> <ul style="list-style-type: none"> <li>○ Approaches</li> <li>○ Nursing theories</li> <li>○ Working with families : Appllyng nursing process</li> <li>○ Epidemiological approach</li> <li>○ Problem solving approach</li> <li>○ Evidence based approach</li> <li>○ Empowering people to care for themselves</li> <li>○ Concepts of primary Health Care:</li> <li>○ Equitable distribution</li> <li>○ Community participation</li> <li>○ Focus on prevention</li> <li>○ Use of appropriate technology</li> <li>○ Multi sectoral approach</li> <li>○ Roles and responsibilities of community health nursing personnel in</li> <li>○ Family health services</li> <li>○ Information Education Communication (IEC)</li> <li>○ Management Information system (MIS); maintenance of Records &amp; reports</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice session</li> <li>● Supervised field practice</li> <li>● Participation in camps</li> <li>● Group Project</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short note</li> <li>● Short answers questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Training and supervision of various categories of health workers</li> <li>○ National health programmes</li> <li>○ Environmental sanitation</li> <li>○ Maternal and child health and family welfare</li> <li>○ Treatment of minor ailments</li> <li>○ School Health services</li> <li>○ Occupational health</li> <li>○ Organization of clinics, camps; Types, preparation, planning conduct and evaluation</li> <li>○ Waste management in the center clinics etc.</li> <li>○ Job description of community health nursing personnel</li> </ul>		
V	15	<ul style="list-style-type: none"> <li>● Describe &amp; appreciate the activities of community health nurse in assisting individuals &amp; groups to promote &amp; maintain their health</li> </ul>	<p><b>Assisting individuals and groups to promote and maintain their health</b></p> <ul style="list-style-type: none"> <li>● Empowerment for self care of individuals, families and groups in –</li> </ul> <p><b>A. Assessment of individual and family</b></p> <ul style="list-style-type: none"> <li>○ Monitoring growth and development <ul style="list-style-type: none"> <li>- Mile stones</li> <li>- Weight measurement</li> <li>- Social development</li> </ul> </li> <li>○ Temperature and Blood pressure monitoring</li> <li>○ Menstrual cycle</li> <li>○ Breast self examination and testicles</li> <li>○ Warning signs of various diseases</li> <li>○ Tests: Urine for sugar and albumin, blood sugar</li> </ul> <p><b>B. Seek health services for</b></p> <ul style="list-style-type: none"> <li>○ Routine checkup</li> <li>○ Immunization</li> <li>○ Counseling</li> <li>○ Diagnosis</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Demonstration</li> <li>● Practice session</li> <li>● Supervised field practice</li> <li>● Individual/ group/ family/ community health education</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short note</li> <li>● Short answers questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>○ Treatment</li> <li>○ Follow up</li> </ul> <p><b>C. Maintenance of health records for individual and family</b></p> <p><b>D. Continue medical care and follow up in community for various diseases and disabilities</b></p> <p><b>E. Carryout therapeutic procedures as prescribed/ required for individual and family</b></p> <p><b>F. Waste management</b></p> <ul style="list-style-type: none"> <li>○ Collection and disposable of waste at home &amp; community</li> </ul> <p><b>G. Sensitize and handle social issues affecting health and development for self and family</b></p> <ul style="list-style-type: none"> <li>○ Women Empowerment</li> <li>○ Women and child abuse</li> <li>○ Abuse of elders</li> <li>○ Female foeticide</li> <li>○ Commercial sex workers</li> <li>○ Food adulteration</li> <li>○ Substance abuse</li> </ul> <p><b>H. Utilize community resources for self and family</b></p> <ul style="list-style-type: none"> <li>○ Trauma services</li> <li>○ Old age homes</li> <li>○ Orphanage</li> <li>○ Homes for physically and mentally challenged individuals</li> <li>○ Home for destitute</li> </ul>		
<b>VI</b>	<b>20</b>	<ul style="list-style-type: none"> <li>● Describe national health &amp; family welfare programmes &amp; role of a nurse</li> <li>● Describe the various health schemes in India</li> </ul>	<p><b>National health and family welfare programmes and the role of a nurse</b></p> <ol style="list-style-type: none"> <li>1) National ARI programme</li> <li>2) Revised National tuberculosis control programme (RNTCP)</li> <li>3) National vector borne disease control programme (Malaria, Filaria, Kalazar, Japanese Encephalitis, Dengue, Chikungunya)</li> <li>4) National Guinea worm eradication programme</li> </ol>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Participation in national health programmes</li> <li>● Field visits</li> </ul>	<ul style="list-style-type: none"> <li>● Essay type</li> <li>● Short note</li> <li>● Short answers questions</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>5) National leprosy eradication programme</li> <li>6) National AIDS control programme</li> <li>7) STD control programme</li> <li>8) National programme for control of blindness</li> <li>9) Iodine deficiency disorder programme</li> <li>10) Expanded programme on immunization</li> <li>11) National family welfare programme – RCH programme historical development, organization, administration, research, constraints</li> <li>12) National water supply and sanitation programme</li> <li>13) Minimum need programme</li> <li>14) National programme for prevention and control of diabetes, cardiovascular disease and stroke</li> <li>15) National programme for control and treatment of occupational diseases</li> <li>16) Polio eradication; Pulse Polio programme</li> <li>17) National Cancer Control Programme</li> <li>18) Yaws Eradication Programme</li> <li>19) National mental health programme</li> <li>22. National nutritional programmes</li> <li>20) Minimum needs programme</li> <li>21) 20 point programme</li> <li>22) ICDS programme</li> <li>23) Millennium development goals</li> <li>24) Community development programme</li> <li>25) National Rural Health Mission (NRHM)</li> <li>26) National Urban Health</li> </ul>		

Unit No.	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			Mission (NUHM) <ul style="list-style-type: none"> <li>• Health schemes               <ul style="list-style-type: none"> <li>○ ESI</li> <li>○ CGHS</li> <li>○ Health insurance</li> </ul> </li> </ul>		
<b>VII</b>	<b>5</b>	<ul style="list-style-type: none"> <li>• Explain the roles &amp; functions of various national &amp; international health agencies</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Health Agencies</b>  <b>International</b> – WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (EC), Red cross, USAID, UNESCO, Colombo plan, ILO, CARE etc.  <b>National</b> – Indian Red cross, Indian council for child welfare, Family planning Association of India (FPAI), Tuberculosis Association of India, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All India women’s conference, Blind Association of India etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short note</li> <li>• Short answers questions</li> </ul>

## COMMUNITY HEALTH NURSING – PRACTICAL

**Placement: Fourth Year**

**Time: Practical – 135 Hours**

<b>Practical – VII</b>	<b>Internal Assessment</b>	<b>Final Practical</b>	<b>Total</b>
<b>Community Health Nursing Practical with Viva Voce</b>	50	50	100

**Note:**

An examiner in practical VI – Community Health Nursing – Practical with viva voce need to be M.Sc. Nursing with Community Health Nursing specialty & minimum of 3 years collegiate / university level teaching experience.

<b>Areas</b>	<b>Duration (in weeks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assignments</b>	<b>Assessment Method</b>
Community Health Nursing	1 week for urban 4 week for rural	<ul style="list-style-type: none"> <li>• Identify community profile</li> <li>• Identify prevalent communicable and non-communicable diseases</li> <li>• Diagnose health needs of Individual, Families &amp; community</li> <li>• Plan, provide &amp; evaluate care</li> <li>• Participate in school health program</li> <li>• Organize group for self help and involve clients in their own health activities</li> <li>• Provide family welfare services</li> <li>• Counsel and educate individual, family &amp; community</li> <li>• Collect Vital health statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Community health survey</li> <li>• Community diagnosis</li> <li>• Family care: Home adaptation of common procedures</li> <li>• Home visit: Bag Technique</li> <li>• Organize and conduct clinics- antenatal, postnatal, well baby clinic, camps etc</li> <li>• Screen manage and referrals for:                             <ul style="list-style-type: none"> <li>○ High risk mothers and neonates</li> <li>○ Accidents and Emergencies</li> <li>○ Illnesses: Physical and mental</li> <li>○ Disabilities</li> </ul> </li> <li>• Conduct delivery at centre/home; episiotomy and suturing</li> <li>• Resuscitate newborn</li> <li>• School Health programme                             <ul style="list-style-type: none"> <li>○ Screen, manage, refer children</li> </ul> </li> <li>• Collaborate with health &amp; allied agencies</li> <li>• Train &amp; supervise</li> </ul>	<ul style="list-style-type: none"> <li>• Community survey report - 1</li> <li>• Family care study - 1</li> <li>• Project - 1</li> <li>• Health talk- 1</li> <li>• Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Evaluation of community survey report care study, project &amp; health talk</li> <li>• Completion of activity record.</li> <li>• Completion of case book recordings</li> </ul>

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
		<ul style="list-style-type: none"> <li>• Maintain Records &amp; reports</li> </ul>	<p>health workers</p> <ul style="list-style-type: none"> <li>• Provide family welfare services: insertion of IUD</li> <li>• Counsel &amp; teach individual, family &amp; community about: HIV, TB, Diabetes, hypertension, Mental Health, adolescents, elderly's health, physically &amp; mentally challenged individuals etc</li> <li>• Document &amp; maintain               <ul style="list-style-type: none"> <li>○ Individual, family &amp; administrative records</li> <li>○ Write reports-center, disease, national health programme/projects</li> </ul> </li> </ul>		

# NURSING RESEARCH & STATISTICS

**Placement: Fourth Year Internship**

**Time: Theory – 30 + 15 Hours  
Practical – 45 Hours**

Paper	Subject	Internal Assessment	Final Exam	Total Marks
XX	Nursing Research & Statistics	25	75	100

The questions of both the subject i.e. Nursing Research & Statistics will be on the same question paper and demarked as Section – A & Section – B and to be answered on separate answer books.

## Section – A: Nursing Research

**Placement: Fourth Year**

**Time: Theory – 30 Hours**

**Scheme of examination (Theory/Written)**

Paper	Subject	Duration	Max. Marks (Final Exam)
XX Section : A	Nursing Research	2 hrs.	50

### Question paper pattern

Essay type question: 2 x 10 = 20 Marks
Short Notes : 4 x 5 = 20 Marks
MCQs : 20 x 1 = 20 Marks

### Note:

An examiner / paper setter in the subject of Paper –XVIII Nursing Research & Statistics need to be M.Sc. Nursing with specialization in any nursing subject with minimum of 3 years collegiate / university level teaching experience.

**Course Description:** The course is designed to enable students to develop an understanding of basic concepts of research and research process. It is further structured to conduct/ participate in need based research studies in various settings and to utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting individual/ group research project.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	4	<ul style="list-style-type: none"> <li>Describe the concept, research, terms, need &amp; areas of research in nursing.</li> <li>Explain the steps of research process</li> </ul>	<b>Research and research process</b> <ul style="list-style-type: none"> <li>Introduction and Definition of Research &amp; Nursing research</li> <li>Need &amp; significance of Nursing research</li> <li>Steps of scientific method</li> <li>Characteristic of good research</li> <li>Steps of research process overview</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Narrate steps of research process followed from examples of published studies</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
II	3	<ul style="list-style-type: none"> <li>Identify &amp; research problem and objectives</li> </ul>	<b>Research problem/ question</b> <ul style="list-style-type: none"> <li>Identification of problem area</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Exercise on</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> <li>Criteria for selecting a good research problem</li> <li>Formulating a problem statement</li> <li>Writing research objective</li> <li>Hypothesis and assumptions</li> </ul>	writing statement of problem and objectives	<ul style="list-style-type: none"> <li>Short answer</li> </ul>
III	3	<ul style="list-style-type: none"> <li>Review the related literature</li> </ul>	<b>Review of literature</b> <ul style="list-style-type: none"> <li>Definition &amp; Purposes</li> <li>Location, Sources</li> <li>On line search;</li> <li>CINHAL, COCHRANE etc. <ul style="list-style-type: none"> <li>Method of review of literature</li> <li>Developing conceptual or theoretical framework &amp; models</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Exercise on reviewing one research report/article for a selected research problem</li> <li>Prepare annotated bibliography</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
IV	4	<ul style="list-style-type: none"> <li>Describe the research approaches &amp; designs</li> </ul>	<b>Research approaches and designs</b> <ul style="list-style-type: none"> <li>Introduction and definition of research designs</li> <li>Elements of research design</li> <li>Types of research design <ul style="list-style-type: none"> <li>Quantitative designs</li> <li>Qualitative designs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Explain types of research approaches used from examples of published and unpublished research studies with rationale</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
V	3	<ul style="list-style-type: none"> <li>Explain the sampling process</li> </ul>	<b>Population, Sample and Sampling</b> <ul style="list-style-type: none"> <li>Definition of population, sample</li> <li>Sampling criteria</li> <li>Factors influencing Sampling process</li> <li>Types of sampling techniques.</li> <li>Sample Size</li> <li>Problems of Sampling</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>
VI	5	<ul style="list-style-type: none"> <li>Describe the methods of data collection</li> </ul>	<ul style="list-style-type: none"> <li><b>Data collection methods and tools:</b> <ul style="list-style-type: none"> <li>Methods and tools of data Collection</li> <li>Selection of methods of data collection</li> <li>Criteria for evaluation/assessment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Practicing assignment on examples of data collection tool</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			t of data collection methods <ul style="list-style-type: none"> <li>• Commonly used tools &amp; methods of data collection in nursing research</li> <li>• Validity &amp; Reliability of tools</li> <li>• Pilot study</li> <li>• Data collection procedure</li> </ul>		
<b>VII</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Analyze, Interpret summarize the research data</li> </ul>	<b>Analysis of data:</b> <ul style="list-style-type: none"> <li>• Compilation Tabulation Classification, Summarization, Presentation, Interpretation of data</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Preparation of sample tables</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> </ul>
<b>VIII</b>	<b>4</b>	<ul style="list-style-type: none"> <li>• Communicate and utilize the research findings</li> </ul>	<b>Communication and utilization of research</b> <ul style="list-style-type: none"> <li>• Communication of research findings               <ul style="list-style-type: none"> <li>▪ Verbal report</li> <li>▪ Writing Research Report</li> <li>▪ Writing Scientific Article/paper                   <ul style="list-style-type: none"> <li>- Critical review of Published research</li> <li>- Utilization of research findings</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Read /presentations of a sample published research report</li> <li>• Writing group research project</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type question</li> <li>• Short notes</li> <li>• Short answer</li> <li>• Assessment of group research project</li> </ul>

## Section – B: Statistics

Placement: Fourth Year

Time: Theory – 15 Hours

### Scheme of examination

Paper	Subject	Duration	Max. Marks (Final Exam)
XX Section-B	Statistics	1hr.	25

### Question paper pattern

Essay type question: 1 x 7 = 7 Marks
Short Notes : 2 x 5 = 10 Marks
MCQs : 8 x 1 = 8 Marks

### Note:

An examiner/paper setter in the subject of paper – XVIII (Section: B Statistics) need to be with post graduate degree in statistics/Biostatistics with minimum of 3 years collegiate / university level teaching experience.

Unit No.	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	15	<ul style="list-style-type: none"> <li>Explain the use of statistics, scales of measurement &amp; graphical presentation of data</li> <li>Describe the measures of central tendency &amp; variability &amp; methods of correlation</li> </ul>	<b>Introduction to statistics</b> <ul style="list-style-type: none"> <li>Definition, use of statistics, scales of measurement.</li> <li>Frequency of distribution and graphical Presentation of data</li> <li><b>Measures of central tendency:</b> Mean, median, mode.</li> <li>Measures of Variability : Standard deviation</li> <li>Co-efficient of correlation</li> <li>Normal probability</li> <li><b>Tests of significance :</b> 't' test , chi square</li> <li>Statistical packages and its application - SPSS</li> </ul>	<ul style="list-style-type: none"> <li>Lecture Discussion</li> <li>Practice on graphical presentation</li> <li>Practice on computation of measures of central tendency, variability &amp; correlation</li> </ul>	<ul style="list-style-type: none"> <li>Essay type question</li> <li>Short notes</li> <li>Short answer</li> </ul>

# NURSING MANAGEMENT

Placement: Fourth Year

Time: Theory – 90 Hours

Paper	Subject	Internal assessment	Final Exam	Total marks
XXI	Management of Nursing Services and Education	25	75	100

### Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
XXI	Nursing Management	3 hours	75

### Question paper pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
MCQs : 20 x 1 = 20 Marks

### Note:

An examiner/paper setter in the subject of paper – XIX Management of Nursing services and education need to be M.Sc. Nursing in any Nursing specialty with minimum 3 years of collegiate / university level teaching experience.

**Course Description:** This course is designed to enable students to acquire understanding of management of clinical and community health nursing services, nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects & contribution to the growth of the profession.

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	4		<ul style="list-style-type: none"> <li>Explain the principles and function of management</li> </ul>	<b>Introduction to management &amp; Administration in nursing</b> <ul style="list-style-type: none"> <li>Definition, nature &amp; Philosophy of Management and Administration                             <ul style="list-style-type: none"> <li>concepts of management</li> </ul> </li> <li>Theories of management</li> <li>Principles of management</li> <li>Functions of management</li> <li>Comparison of administration and management</li> <li>Need of Nursing Management and Administration</li> <li>Role of Nurse as a manager</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Explain using organization chart &amp; other A.V. aids.</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>
II	8		<ul style="list-style-type: none"> <li>Describe the elements and process of management</li> </ul>	<b>Management Process</b> <ul style="list-style-type: none"> <li><b>Planning:</b> Meaning, definition, importance, Nature, Characteristics, philosophy, objectives, Principles, Components, steps, types, operational plan, change.</li> <li><b>Organisation:</b> Meaning, definition,</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Simulated exercises</li> <li>Case studies</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<p>importance, nature, levels of organization, organizational effectiveness and organizational climate.</p> <ul style="list-style-type: none"> <li>• <b>Human resource management:</b> Staffing; Meaning, definition, objectives, philosophy, types of staff, factors affecting staffing, norms. Recruiting, selecting, deployment, retaining, promoting, super annuation etc</li> <li>• <b>Directing</b> : Definition features, importance, principles and elements role and functions, creativity and innovations.</li> <li>• <b>Controlling:</b> Quality management, control process, definition, importance, limitations, characteristics, elements, type of control</li> <li>• <b>Budgeting:</b> concept ,steps , principles, types, cost benefit analysis, audit,</li> <li>• <b>Material management:</b> equipment and supplies, ABC analysis, VED analysis, Principles of good material management.</li> <li>• Program Evaluation Review Technique (PERT), Bench marking, activity plan (Gantt Chart)</li> </ul>		
III	15	20	<ul style="list-style-type: none"> <li>• Describe the Management of nursing services in the hospital and community</li> </ul>	<p><b>Management of nursing services in the Hospital and Community</b></p> <ul style="list-style-type: none"> <li>• <b>Nursing Management</b> <ul style="list-style-type: none"> <li>○ Concept, types, principles and techniques.</li> <li>○ Vision, mission and statement.</li> <li>○ Philosophy, aims and objectives.</li> <li>○ Theories and models.</li> <li>○ Current trends and issues in Nursing Management.</li> </ul> </li> <li>• <b>Planning:</b> <ul style="list-style-type: none"> <li>○ Formation of mission, philosophy, aims and objectives of Nursing services and Hospital and community.</li> <li>○ Strategic Planning.</li> <li>○ Innovation in Nursing.</li> </ul> </li> <li>• <b>Organisation:</b> <ul style="list-style-type: none"> <li>○ Hospital and patient care units including ward management</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Demonstration</li> <li>• Simulated Exercises</li> <li>• Case studies</li> <li>• Supervised practice in ward-writing, indents, preparing duty roaster, ward supervision</li> <li>• Assignments on duties and responsibilities of ward sister</li> <li>• Writing report</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of problem solving exercises</li> <li>• Assessment of the assignment</li> <li>• Performance evaluation by ward sister with rating scale</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<ul style="list-style-type: none"> <li>○ Emergency and disaster management</li> <li>● <b>Human resource management:</b> <ul style="list-style-type: none"> <li>○ Staffing:</li> <li>○ Recruiting, selecting, deployment, retaining, promoting, superannuation etc</li> <li>○ Categories of nursing personnel including job description of all levels</li> <li>○ Patients/ population classification systems</li> <li>○ Patients/ population assignment and Nursing care responsibilities</li> <li>○ Personnel Policies.</li> <li>○ Staff development and welfare: Adult Education, Career Development</li> </ul> </li> <li>● <b>Directing and leading:</b> delegation, participatory management <ul style="list-style-type: none"> <li>○ Assignments, rotations, delegations</li> <li>○ Implement standards, policies, procedures and practices</li> <li>○ Managing Conflict.</li> </ul> </li> <li>● <b>Controlling/ Evaluation:</b> <ul style="list-style-type: none"> <li>○ Supervision and guidance.</li> <li>○ Maintenance of discipline.</li> <li>○ Nursing Rounds/ Visits, Nursing protocols, Manuals</li> <li>○ Quality Assurance: Continuous Quality Improvement, Standards, Models, Audit</li> <li>○ Documentation</li> <li>○ Records and reports</li> <li>○ Performance appraisal</li> </ul> </li> <li>● <b>Budgeting;</b> proposal, projecting requirements for staff, equipments and supplies for <ul style="list-style-type: none"> <li>○ Patient care units, Hospital and community services.</li> <li>○ Emergency and disaster management</li> </ul> </li> <li>● <b>Material Management:</b> Planning and procurement procedures, equipment and supplies, inventory control, auditing and maintenance in <ul style="list-style-type: none"> <li>○ Hospital and patient care units</li> <li>○ Emergency and disaster management</li> </ul> </li> </ul>		

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
IV	5		<ul style="list-style-type: none"> <li>Describe the concepts, theories and techniques of Organization al behavior and human relations</li> </ul>	<p><b>Organizational behaviour and human relations</b></p> <ul style="list-style-type: none"> <li>Concepts and theories of organizational behaviors</li> <li>Review of channels of communication</li> <li>Leadership styles</li> <li>Review of motivation; concepts and theories</li> <li>Group dynamics</li> <li><b>Techniques of :</b> <ul style="list-style-type: none"> <li>Communication; and</li> <li>Interpersonal relationships</li> <li>Human relations:</li> </ul> </li> <li>Public relations in context of nursing</li> <li>Relations with professional associations and employee unions and collective bargaining</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Role plays</li> <li>Group games</li> <li>Self assessment</li> <li>Case discussion</li> <li>Practice Session</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assessment of problem solving</li> </ul>
V	15	10	<p>Describe management of Nursing educational institutions</p> <ul style="list-style-type: none"> <li>Participate in planning and organizing in service education program</li> </ul>	<p><b>Management of nursing educational institutions</b></p> <ul style="list-style-type: none"> <li>Planning</li> <li>Establishment of nursing educational institution INC norms and guidelines</li> <li><b>Co-ordination with-</b> <ul style="list-style-type: none"> <li>Regulatory bodies</li> <li>Accreditation</li> <li>Affiliation</li> </ul> </li> <li><b>Formulation of Philosophy/objectives</b></li> <li><b>Organisation of college/School</b> <ul style="list-style-type: none"> <li>Structure</li> <li>Committees</li> <li>Physical facilities</li> <li>Clinical facilities</li> <li>Hostel Facilities</li> <li>Transport Facilities</li> <li>Curriculum planning</li> </ul> </li> <li><b>Recruitment of Faculty and staff</b> <ul style="list-style-type: none"> <li>Selection</li> <li>Recruitment</li> <li>Job description</li> <li>Placement</li> <li>Performance appraisal</li> </ul> </li> <li><b>Development and welfare :</b> <ul style="list-style-type: none"> <li>In service education</li> <li>Nature &amp; scope of in service education program,</li> <li>Principles of adult learning,</li> </ul> </li> <li><b>Budgeting</b></li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Role plays</li> <li>Counseling session</li> <li>Group Exercises</li> <li>Plan &amp; conduct an educational session for in service nursing personnel</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short notes</li> <li>Short answer questions</li> <li>Assess the planning &amp; conduct of the educational session</li> </ul>

Unit No.	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
				<ul style="list-style-type: none"> <li>• <b>Equipments and supplies</b>; audio visual equipments, laboratory equipment, books, journals etc <ul style="list-style-type: none"> <li>○ College/ School</li> <li>○ Hostel</li> </ul> </li> <li>• <b>Students selection and admission</b> <ul style="list-style-type: none"> <li>○ Selection</li> <li>○ Admission</li> <li>○ Guidance and Counseling</li> <li>○ Maintaining discipline</li> </ul> </li> <li>• <b>Maintenance of Records:</b> College/School.</li> <li>• Institutional Records and reports-administrative, faculty, staff and students</li> </ul>		
VI	10		<ul style="list-style-type: none"> <li>• Describe the ethical and legal responsibilities of a professional nurse</li> </ul>	<p><b>Regulatory Bodies, Legal and Ethical Issues</b></p> <ul style="list-style-type: none"> <li>○ <b>Regulatory bodies</b>; Indian Nursing Council (INC), State Nursing Council Acts; - constitution, functions.</li> <li>○ Current trends and issues in Nursing</li> <li>• <b>Professional ethics</b> <ul style="list-style-type: none"> <li>○ Code of ethics; Indian Nursing Council, International Council for Nurses (ICN).</li> <li>○ Code of professional conduct; INC, ICN</li> </ul> </li> <li>• <b>Legal aspects in Nursing</b> <ul style="list-style-type: none"> <li>○ Legal terms related to practice; registration and licensing</li> <li>○ Laws related to nursing practice; Breach and penalties</li> <li>○ Malpractice and negligence</li> </ul> </li> <li>• <b>Practice standards for Nursing :</b> INC <ul style="list-style-type: none"> <li>○ Professional responsibilities and accountability.</li> </ul> </li> <li>• <b>Patient Rights.</b></li> <li>• <b>Consumer protection act</b></li> <li>• <b>Clinical Establishment Act.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Case Discussion</li> <li>• Panel discussion</li> <li>• Role plays</li> <li>• Critical incidents</li> <li>• Visit to INC/SNRCs</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> <li>• Assessment of critical incidents</li> </ul>
VII	3		<ul style="list-style-type: none"> <li>• Explain the various opportunities for professional advancement</li> </ul>	<p><b>Professional Advancement:</b></p> <ul style="list-style-type: none"> <li>• Continuing education</li> <li>• Career opportunities</li> <li>• <b>Membership with professional organizations</b>; National and International</li> <li>• Participation in research activities</li> <li>• Publications; Journals newspapers etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Review/Presentation of published articles</li> <li>• Group work on maintenance of bulletin board</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short notes</li> <li>• Short answer questions</li> </ul>



**SIX MONTHS COMPULSORY  
INTERNSHIP  
(INTEGRATED PRACTICE)**

## MEDICAL – SURGICAL NURSING – PRACTICAL (Including Geriatrics)

**Placement: Internship**

**Time: 430 hours (9 weeks)**

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
ICU, CCU, CARDIAC OT	2	<ul style="list-style-type: none"> <li>To gain proficiency in ICU nursing</li> <li>Develop advance skill in special procedures used in critical care units</li> <li>Identify potential problems &amp; provide care accordingly</li> <li>Skill in setting &amp; handling ventilator</li> <li>Administer injection in infusion pump</li> <li>Record accurately findings medicationns</li> <li>Develop IPR with family members</li> <li>Acquaint with OT technique</li> </ul>	<ul style="list-style-type: none"> <li>Assist in arterial puncture for blood gas analysis.</li> <li>Perform ECG &amp; interpret accordingly</li> <li>Conduct &amp; analysis pulse oximetry</li> <li>Care with artificial airway</li> <li>Assist in endotracheal intubation</li> <li>Setting up ventilator</li> <li>Giving care in ventilator</li> <li>Drug sheet</li> <li>Observation of special procedure in OT</li> </ul>	<ul style="list-style-type: none"> <li>Arterial pucture-5</li> <li>Taking out ECG Stripe-5 For all assigned patients</li> <li>Oxygen administratio n by CPAP mask and use Ambu bag</li> <li>Assessment for all assigned patients</li> <li>Nursing care in ventilator</li> <li>Drug sheet</li> </ul>	<ul style="list-style-type: none"> <li>Record book</li> <li>Checking with supervisor</li> </ul>
Neuro, ICU, ITU, OT	2	<ul style="list-style-type: none"> <li>Develop skill in neurological assessment</li> <li>Giving care to the patient with head injury &amp; spinal injury</li> <li>Care with chest surgery &amp;cranial surgery</li> </ul>	<ul style="list-style-type: none"> <li>Assess neurological status</li> <li>Implement care to head injury ,spinal injury patients</li> <li>Drug sheet</li> <li>Pre and post operative care with neuro surgery patients</li> </ul>	<ul style="list-style-type: none"> <li>Assessment for all assigned patients</li> <li>Nursing care plan-2</li> <li>Drug sheet</li> </ul>	<ul style="list-style-type: none"> <li>Record book</li> <li>Observation checklist</li> </ul>
Burns and plastic reconstructive surgery	2	<ul style="list-style-type: none"> <li>Assess the severity of burns</li> <li>Administer rehydration therapy</li> <li>Observe reconstructive surgery</li> </ul>	<ul style="list-style-type: none"> <li>Nursing care</li> </ul>		
OT Laproscopic, Orthopaedic, Eye, ENT	3	<ul style="list-style-type: none"> <li>Identify instruments</li> <li>Assist in OT Set up</li> <li>Supervise sterilization</li> <li>Assist in OT Table lay out</li> <li>Observe immediately after operation</li> <li>Supervise infection control</li> </ul>		<ul style="list-style-type: none"> <li>Assist -5 cases</li> </ul>	<ul style="list-style-type: none"> <li>Record book</li> </ul>

**Placement: Internship****Time: 9 weeks**

<b>Areas</b>	<b>Duration (in weeks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assessment</b>
Medical Ward	2	<ul style="list-style-type: none"><li>• Provide comprehensive care to patients with medical &amp; surgical conditions including emergencies</li><li>• Assist with common operations</li></ul>	Integrated Practice	<ul style="list-style-type: none"><li>• Assess clinical performance with rating scale</li></ul>
Surgical Ward	2			
Critical care unit/ ICCU	1			
Casualty/ Emergency	2			
Operation Theatre (Eye, ENT, Neuro)	2			

## CHILD HEALTH NURSING – PRACTICAL

**Placement: Internship**

**Time: Internship – 145 hours (3 weeks)**

Areas	Duration (in weeks)	Objectives	Skills	Assessment
Paediatric Medicine Ward/ICU	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide Comprehensive care to children with various medical conditions</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> </ul>
Paediatric Surgery Ward/ICU	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide Comprehensive care to children with various surgical conditions</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> </ul>
NICU	<b>1</b>	<ul style="list-style-type: none"> <li>• Provide Intensive care to neonates</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> </ul>

# MENTAL HEALTH NURSING – PRACTICAL

**Placement: Internship**

**Time: Internship – 95 hours (2 weeks)**

<b>Areas</b>	<b>Duration (in weeks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assessment</b>
Psychiatry Ward	<b>2</b>	<ul style="list-style-type: none"><li>• Provide Comprehensive care to patients with mental health problems</li></ul>	<ul style="list-style-type: none"><li>• Integrated Practice</li></ul>	<ul style="list-style-type: none"><li>• Assess clinical performance with rating scale</li></ul>

## OBSTETRICAL & GYNECOLOGICAL NURSING INCLUDING MIDWIFERY- PRACTICAL

**Placement: Internship**

**Time: Internship – 240 hours (5 weeks)**

Areas	Duration (in weeks)	Objectives	Skills	Assignment	Assessment
Labour Ward	2	<ul style="list-style-type: none"> <li>• Provide comprehensive care to mothers &amp; neonates</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Completion of other essential requirement</li> <li>• Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Completion of case book recordings</li> </ul>
Neonatal Intensive care unit/ NICU	1				
Antenatal	2				

## COMMUNITY HEALTH NURSING – II

**Placement: Internship**

**Time: 195 Hrs (4 weeks)**

<b>Areas</b>	<b>Duration (in weeks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assessment</b>
Urban	4	<ul style="list-style-type: none"><li>• Provide comprehensive care to individual, family &amp; community</li></ul>	<ul style="list-style-type: none"><li>• Integrated Practice &amp; group project – 1 in each rural &amp; urban</li></ul>	<ul style="list-style-type: none"><li>• Assess clinical performance with rating scale</li><li>• Evaluation of project</li></ul>

*Note: During the posting they should stay in health centres under the supervision of teachers*