

**GANDHI INSTITUTE OF TECHNOLOGY AND  
MANAGEMENT (GITAM)**

(Deemed to be University, Estd. u/s 3 of UGC Act 1956)

**VISAKHAPATNAM \* HYDERABAD \* BENGALURU**  
**Accredited by NAAC with 'A' Grade**



**REGULATIONS AND SYLLABUS of**  
**B.Sc Degree course In Nursing**  
(W.e.f 2016-2017 admitted batch)

*A University Committed to Excellence*

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**B.Sc Nursing**  
**REGULATIONS**  
(w.e.f 2016-17 admitted batch)



These regulations shall be called the regulations for the Basic B.Sc Nursing degree course in GITAM University.

These regulations are applicable to the students admitted from the Academic year 2016-17. Education is a lifelong process and a graduate Nurse emerging out of the University should be ready to learn throughout life. She/ He must bloom into cultivated, creative, self directed, knowledgeable person whose education has encouraged a continuous process of development as a person, professional, citizen and agent of social change.

**PHILOSOPHY**

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

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

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of Nursing is based upon application of basic concepts and principles derived from the Physical, Biological and Behavioral Sciences, Medicine and Nursing.

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

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

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self-directed learning and foster an attitude of lifelong learning. Under graduate Nursing education program prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conducts at all times in fulfilling personal, social and professional obligations so as to respond to the national aspirations.

**Aim:**

The aim of the undergraduate nursing program is to:

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

**Objectives:**

On completion of the Four years B.Sc. Nursing program the graduate will be able to:

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

## **ADMISSION REQUIREMENTS:**

### **Application & Registration**

- I. All applicants are advised to read the prospectus before starting online registration.
- ii. While filling the online application, ensure that no column is left blank.

### **Eligibility for Admission**

- i. The minimum age for admission shall be 17 years on 31st December of the year.
- ii. Minimum education: Pass in Intermediate or 10+2 class passed with Science Biology, Physics, Chemistry & English with aggregate of 45% marks from recognized board under AISSCE/ CBSE/ICSE/SSCE/HSCE or other equivalent Board.
- iii. The Candidate shall be medically fit.
- iv. The Candidate appearing in 10+2 examination in Science conducted by National Institute of Open School with 45% marks.

### **Cut off dates for Admission**

- a. 30th September of the academic year concerned.
- b. All kinds of admission shall be completed on or before 30th September of the academic year. There shall not be any admission after 30th September even if seats are vacant.

### **Duration of the Course**

The duration of certified study for the B.Sc degree course in Nursing (Basic) shall extend over a period of four academic years including integrated practice.

### **MEDIUM OF INSTRUCTION**

English shall be the medium of instruction for all the subjects of study and for examination.

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

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

### **ATTENDANCE REQUIRED FOR ADMISSION TO EXAMINATION**

- a. No candidate shall be permitted to appear in any one of the parts of Basic B.Sc Nursing Degree course Examinations unless he / she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University and produce the necessary certificate of study attendance, satisfactory conduct and progress from the Head of the Institution.
- b. A candidate is required to put in a minimum of 90% of attendance in both theory and practical separately in each subject before Admission to the Examinations.
- c. A candidate must have 100% attendance in each of the practical areas before award of Degree.

## **INTERNAL ASSESSMENT MARKS**

The internal assessment should consist of the following points for evaluation:

- Theory
- Practical & Oral
- a. A minimum of 50% of marks is mandatory in theory and practical separately in each subject / practical for permitting the candidates to University examinations.
- b. A minimum of three written examinations shall be conducted in each subject and average marks of the three examinations shall be taken in the final internal assessment marks. In addition, one practical internal assessment exam should be conducted in the nursing subjects.
- c. Fresh internal assessment exam is mandatory to the referred and detained students.
- d. The internal assessment marks should be submitted to the Principal by the respective Head of the Department/ Teacher concerned at least Four weeks before the commencement of the theory examinations. The Principal has to forward the copy of the same to the Registrar or an Officer authorized by him to receive the same, at least Three weeks before the commencement of the theory examinations.
- e. The same shall be displayed in the college notice board, before sending to the Examination Board.
- f. The Institution should submit average internal marks to the total students, not more than 75% i.e., if 40 students are admitted in a course the average score of the 40 students shall not exceed 75% of the total internal marks.

## **SUBMISSION OF PRACTICAL RECORD BOOKS**

The concerned Head of the Department shall evaluate the Practical Cumulative Record (Internal Evaluation) and the same shall be submitted to the Principal 15 days prior to the commencement of the theory examination.

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

## COURSE OF INSTRUCTION:

### First Year

S.No	Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs.) (Clinical)	In Hours
1.	English	60		
2.	Anatomy	60		
3	Physiology	60		
4	Nutrition	45 +20		
5	Biochemistry	30		
6	Nursing Foundations	265 + 200	450	
7	Psychology	60		
8	Microbiology	60		
9	Introduction to computers	15 + 30		
10	Hindi / Regional Language	30		
11	Library Work /Self Study			50
12	Co-curricular activities			50
	Total Hours	935	450	100
	Total Hours = 1485 hrs			
	.			

### Second Year

S.No.	Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs.) (Clinical)	In Hours
1	Sociology	80		
2	Pharmacology	45		
3	Pathology	30		
4	Genetics	15		
5	Medical-Surgical Nursing-I	210	720	
6	Community Health Nursing-I	100	135	
7	Communication and			
8	Library Work / Self Study			50
9	Co-curricular activities			35
	Total Hours	570	855	85
	Total Hours = 1510 hrs.			

### Third Year

S.No.	Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs) (Clinical)	In Hours
1	Medical Surgical Nursing(Adult including Geriatrics)-II	120	270	
2	Child Health Nursing	90	270	
3.	Mental Health Nursing	90	270	
4	Midwifery and Obstetrical Nursing-I	40	180	
5.	Library Work / Self Study			50
6	Co-curricular activities			50
	Total	340	990	100
	Total Hours: 1430			

S.No.	Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs) (Clinical)	In Hours
1	Midwifery and Obstetrical Nursing-II	60	180	
2	Community Health Nursing-II	110	135	
3	Nursing Research & Statistics	45	*	
4	Management of Nursing Services and Education	60+30		
	Total Hours	305	315	
	Total Hours = 620 hrs			

\*project work to be carried out during internship

#### Integrated Nursing Training (INTERNSHIP)

S.No.	Subject	Practical (In hrs)	In weeks
1.	Midwifery and Obstetrical Nursing	240	5
2.	Community Health Nursing - ii	195	4
3.	Medical Surgical Nursing(Adult and Geriatric)	430	9
4.	Child Health Nursing	145	3
5.	Mental Health Nursing	95	2
6.	Research Project*	45	1
	Total	1150	24

#### Note:

- Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
- Internship should be carried out as 8 hours per day @ 48 hours per week.
- Students during internship will be supervised by nursing teachers.
- Students will be eligible to appear in the fourth year final examination only after completion of Internship (24 weeks).



**SCHEME OF EXAMINATION**  
**First Year**

S.No.	Course Code	Course Title	Hours	Internal	External	Total
1	GIN 101	Anatomy & Physiology	3	25	75	100
2	GIN 102	Nutrition & Biochemistry	3	25	75	100
3	GIN 103	Nursing Foundations	3	25	75	100
4	GIN 104	Psychology	3	25	75	100
5	GIN 105	Microbiology	3	25	75	100
6	GIN 106	English	3	25	75	100
7	GIN 107	Introduction to Computers	3	25	75	100
<b>Practical and Viva voce</b>						
1.	GIN 108	Nursing Foundations		100	100	200

**Second Year**

S.No.	Course Code	Course Title	Hours	Internal	External	Total
1	GIN 201	Sociology	3	25	75	100
2	GIN 202	Medical Surgical Nursing-I	3	25	75	100
3	GIN 203	Pharmacology Pathology & Genetics	3	25	75	100
4	GIN 204	Community Health Nursing – I	3	25	75	100
5	GIN 205	Communication and Educational Technology	3	25	75	100
<b>Practical and Viva voce</b>						
1.	GIN 206	Medical Surgical Nursing-I		100	100	200

**Third Year**

S.No.	Course Code	Course Title	Hours	Internal	External	Total
1	GIN 301	Medical Surgical Nursing-II	3	25	75	100
2	GIN 302	Child Health Nursing	3	25	75	100
3	GIN 303	Mental Health Nursing	3	25	75	100
4	GIN 304	Midwifery and Obstetrical Nursing- I	3	25	75	100
<b>Practical and Viva voce</b>						
1	GIN 305	Medical Surgical Nursing-II		50	50	100
2	GIN 306	Child Health Nursing		50	50	100
3	GIN 307	Mental Health Nursing		50	50	100

#### Fourth Year

S.No.	Course Code	Course Title	Hours	Internal	External	Total
1	GIN 401	Midwifery and Obstetrics Nursing - II	3	25	75	100
2	GIN 402	Community Health Nursing - II	3	25	75	100
3	GIN 403	Nursing Research & Statistics	3	25	75	100
4	GIN 404	Management of Nursing Services and Education	3	25	75	100
<b>Practical and Viva voce</b>						
1	GIN 405	Midwifery and Obstetrics Nursing -II		50	50	100
2	GIN 406	Community Health Nursing -II		50	50	100

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

#### COMMENCEMENT OF THE EXAMINATIONS:

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

#### Note:

1. Anatomy and Physiology - Question paper will consist of Section A, Anatomy of 37 marks and B Physiology should be of 38 marks.
2. Nutrition and Biochemistry and question paper will consist of Section-A Nutrition, of 45 marks and Section B is Biochemistry of 30 marks.
3. Pharmacology, Genetics, Pathology: Section A of Pharmacology with 38 marks, Section B of Pathology of 25 and Genetics with 12 marks.
4. Nursing Research & Statistics - Nursing Research should be of 50 marks and Statistics of 25 marks.
5. Minimum pass marks shall be 40% for English only.
6. Theory and Practical exams for Introduction to computer to be conducted as College exam and Marks to be sent to the University for inclusion in the marks sheet.
7. A candidate must have 90% of attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
8. A candidate must have 100% attendance in each of the practical areas before award of degree.

#### MARKS QUALIFYING FOR PASS:

50% of marks in the University Theory Examinations. 50% of marks in the University Practical Examinations.

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

50% of marks in aggregate in Theory, Practical and internal assessment marks taken together.

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

#### **CARRY OVER OF FAILED SUBJECTS:**

- A candidate has to pass in theory and practical examinations separately in each of the paper.
- If a candidate fails in either theory or practical examinations, he/she has to reappear for both (theory and practical).
- The failed candidates can appear for the ensuing examinations in subsequent February/August.
- The candidate shall not be permitted into FINAL year unless she/he has passed all the subjects of the I, II & III year. No arrear can be carried over to FINAL year.

#### **PRACTICAL EXAMINATION**

Maximum number of candidates for practical examination should not exceed 25 per day.

The examiner should be a Lecturer or above in a college of Nursing with M.Sc. (N) in the concerned subject and minimum of 3 years of teaching experience.

Faculty with M.Sc.(N) qualification and required teaching experience in any Specialty shall be considered for conducting Practical Examination in the subject "Nursing Foundation".

#### **EXAMINERS:**

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

#### **REVALUATION / RETOTALLING OF ANSWER PAPERS:**

Revaluation of answer papers is not permitted. Only re-totalling of theory answer papers is allowed in the failed subjects and should be applied through the institution.

#### **AWARD OF MEDALS AND PRIZES:**

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

#### **AUTHORITY TO ISSUE TRANSCRIPT OF MARKS:**

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

## **B.Sc NURSING 4 Years Course**

### **First year Syllabus:**

1. English
2. Anatomy
3. Physiology
4. Nutrition
5. Biochemistry
6. Nursing foundations
7. Nursing foundations- Practical
8. Psychology
9. Microbiology
10. Introduction to Computers

# ENGLISH

**Placement: First year**

**Theory - 60 Hours**

**Course description:**

The course is designed to enable students 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 verbal and written English during clinical and classroom experience.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	10	Speak & write grammatically correct English	<ul style="list-style-type: none"> <li>• Review of Grammar</li> <li>• Remedial study of grammar</li> <li>• Building Vocabulary</li> <li>• Phonetics</li> <li>• Public Speaking</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate use of dictionary grammar</li> <li>• Class-room Conversation</li> <li>• Exercise on use of Grammar</li> <li>• Practice in Public speaking</li> </ul>	<ul style="list-style-type: none"> <li>• Objective type</li> <li>• Fill in the blanks</li> <li>• Para Phrasing</li> </ul>
II	30	Develop ability to read, understand and express meaningfully, the prescribed text.	<ul style="list-style-type: none"> <li>• Read and comprehend prescribed course books</li> </ul>	<ul style="list-style-type: none"> <li>• Exercise on:               <ul style="list-style-type: none"> <li>- Reading</li> <li>- Summarizing</li> <li>- Comprehension</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Short Answers</li> <li>• Essay type.</li> </ul>
III	10	Develop writing skills	<ul style="list-style-type: none"> <li>• Various forms of composition               <ul style="list-style-type: none"> <li>- Letter writing</li> <li>- Note takings</li> <li>- Precise writings</li> <li>- Nurses Notes</li> <li>- Anecdotal records</li> <li>- Diary writing</li> <li>- Reports on health problem etc</li> <li>- Resume / CV</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Exercise on writing:               <ul style="list-style-type: none"> <li>- Letter writing</li> <li>- Nurses Notes</li> <li>- Précis, Diary</li> <li>- Anecdotal</li> </ul> </li> <li>• - Health problem</li> <li>• - Story writing</li> <li>- Resume /CV</li> <li>• Essay Writing               <ul style="list-style-type: none"> <li>- Discussion on written reports / documents</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the skills based on the checklist.</li> </ul>

IV	6	Develop skill in spoken English	<ul style="list-style-type: none"> <li>• Spoken English</li> <li>- Oral report</li> <li>- Discussion</li> <li>- Debate</li> <li>- Telephonic Conversion</li> </ul>	<ul style="list-style-type: none"> <li>• Exercise on:</li> <li>- Debating</li> <li>- Participating in Seminar, Panel, Symposium</li> <li>- Telephonic Conversion</li> <li>- Conversation in different situations, practice in public speaking</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the skills based on the checklist.</li> </ul>
V	4	Developing skill in listening comprehension	<ul style="list-style-type: none"> <li>• <b>Listening Comprehension</b></li> <li>- Media, audio, video, speeches etc</li> </ul>	<ul style="list-style-type: none"> <li>• Exercise on:</li> <li>- Listening to audio, video tapes and identify the key points</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of the skills based on the checklist.</li> </ul>

#### Books list

##### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Angela & R.S.Caroline	English for B.Sc Nursing	Frontline Publications

##### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Dr T.Vasudeva Reddy	A Grammar of English	
2.	Koorkkalaka Tom	Communicative English for Nursing students	K.J. Publications, Kerala
3.	Sindhu Tilak	Better English for Nurses	Vora Medical Publications

# ANATOMY

**Placement: First year**

**Theory - 60 Hours**

**Course description:**

The course is designed to assist students to acquire the knowledge of the normal structure of human body & functions. To ensure the students to understand the alternation in anatomical structure and function in disease and practice of Nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	5	Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands	<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, characteristics, classification, location, functions and formation</li> <li>• Membranes and glands - classification and structure</li> <li>Alterations in disease</li> <li>Applications and implications nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using charts, microscopic slides, Skeleton &amp; torso</li> <li>• Demonstrate cells, types of tissues membranes and glands</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>
II	6	Describe the structure & function of bones and joints	<b>The Skeletal System</b> <ul style="list-style-type: none"> <li>• Bones- types, structure,</li> <li>• Axial &amp; Appendicular Skeleton, Bone formation and growth</li> <li>• Description of bones</li> <li>• Joints - classification and structure</li> <li>• Alterations in disease</li> <li>• Applications and implications in nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using charts, Skeleton, loose bones and joints</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>
III	7	Describe the structure and function of muscles	<b>The Muscular System</b> <ul style="list-style-type: none"> <li>• Types and structure of muscles</li> <li>• Muscle groups</li> <li>Alterations in disease</li> <li>• Applications and implications in nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using charts, models and films</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>

IV	6	Describe the structure & function of nervous system	<b>The Nervous System</b> <ul style="list-style-type: none"> <li>• Structure of neurologia &amp; neurons</li> <li>• Somatic Nervous system <ul style="list-style-type: none"> <li>- Structure of brain,</li> </ul> </li> <li>• spinal cord, cranial nerves, spinal nerves, peripheral nerves</li> <li>• Autonomic Nervous System <ul style="list-style-type: none"> <li>sympathetic, para sympathetic</li> </ul> </li> <li>- Structure, location</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>
V	6	Explain the structure & functions of sensory organs	<b>The Sensory Organs</b> <ul style="list-style-type: none"> <li>• Structure of skin, eye, ear, nose, tongue, (Auditory and olfactory apparatus)</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>
VI	7	Describe the structure & function of circulatory and lymphatic system	<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, coronary</li> </ul> </li> <li>• Lymphatic system <ul style="list-style-type: none"> <li>- Lymphatic vessels and lymph</li> <li>- Lymphatic tissues <ul style="list-style-type: none"> <li>- Thymus gland</li> <li>- Lymph nodes</li> <li>- Spleen</li> <li>- Lymphatic nodules</li> </ul> </li> </ul> </li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>



VII	5	Describe the structure & functions of respiratory system	<b>The Respiratory System</b> <ul style="list-style-type: none"> <li>• Structure of the organs of respiration</li> <li>• Muscles of respiration: Intercostal and Diaphragm</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
VIII	6	Describe the structure & functions of digestive system	<b>The Digestive System</b> <ul style="list-style-type: none"> <li>• Structure of Alimentary tract and accessory organs of digestion</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer question</li> <li>• Objective type</li> </ul>
IX	4	Describe the structure & functions Of excretory system	<b>The Excretory System (Urinary)</b> <ul style="list-style-type: none"> <li>• Structure of organs of urinary System: Kidney, ureters, urinary bladder, urethra, structure of skin</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
X	4	Describe the structure & functions of endocrine system	<b>The Endocrine System</b> <ul style="list-style-type: none"> <li>• Structure of Pitutary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
XI	4	Describe the structure and functions of reproductive system	<b>The Reproductive system including breast</b> <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>• Alterations in disease</li> </ul> Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using models, charts, slides, specimens</li> <li>• Record book</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Toratora	Principles of Anatomy and Physiology	
2.	Ross & Wilson	Anatomy and Physiology	

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Ashalatha P.R	Principles of Anatomy and Physiology for nurses	
2.	Kimber & Gray	Anatomy and Physiology	

# PHYSIOLOGY

**Placement: First year**

**Theory - 60 Hours**

**Course Description:**

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	Describe the physiology of cell, tissues, membranes and glands	<b>Cell Physiology</b> <ul style="list-style-type: none"> <li>• Tissue-formation, repair</li> <li>• Membranes &amp; glands - functions</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
II	4	Describe the bone formation and growth and movements of skeleton system	<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, bone healing</li> <li>• Joints and joint movement</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, models and films</li> <li>• Demonstration of joint movements</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
III	4	Describe the muscle movements and tone and demonstrate muscle contraction and tone	<b>Muscular System</b> <ul style="list-style-type: none"> <li>• Muscle movements, Muscle tone, Physiology of muscle contraction, levels and maintenance of posture</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, models slides, specimen and films</li> <li>• Demonstration of muscle movements, tone and contraction</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

IV	7	<p>Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves</p> <p>Demonstrate reflex action and stimulus</p>	<p><b>Nervous System</b></p> <ul style="list-style-type: none"> <li>• Functions of Neurologia &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, and referred</li> <li>- Autonomic learning and biofeedback</li> </ul> </li> </ul> <p>Alternations in disease Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using, Charts, models and films</li> <li>• Demonstrate nerve stimulus, reflex action, reflexes</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
V	8	<p>Describe the physiology of blood and functions of Heart</p> <p>Demonstrate blood cell count, coagulation, grouping, Hb: BP and Pulse monitoring</p>	<p><b>Circulatory System</b></p> <ul style="list-style-type: none"> <li>• Blood formation, composition, blood groups, blood coagulation</li> <li>• Hemoglobin: 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>Alternations in disease Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, films</li> <li>• Demonstration of Blood cell count, coagulation, grouping, Hemoglobin estimation, Heart conduction system.</li> <li>• Measurement of pulse, BP</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

VI	6	Describe the physiology and mechanisms of respiration Demonstrates spirometry	<b>The Respiratory System</b> <ul style="list-style-type: none"> <li>• Functions of respiratory organs</li> <li>• Physiology of Respiration</li> <li>• Pulmonary ventilation, Volume</li> <li>• Mechanics of respiration</li> <li>• Gaseous exchange in lungs</li> <li>• Carriage of oxygen &amp; carbon-dioxide</li> </ul> Exchange of gases in tissues <ul style="list-style-type: none"> <li>• Regulation of respiration.</li> </ul> Alterations in disease Applications and implications in nursing.	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, films</li> <li>• Demonstration of spirometry</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
VII	6	Describes the physiology of digestive system Demonstrates BMR	<b>The Digestive System</b> <ul style="list-style-type: none"> <li>• Functions of organs of digestive tract.</li> </ul> Movements of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food. Functions of liver, gall bladder and pancreas <ul style="list-style-type: none"> <li>• Metabolism of carbohydrates, protein and fat</li> </ul> Applications and implications in nursing.	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, Films</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
VIII	5	Describe the physiology of Excretory System	<b>The Excretory System</b> <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>• Functions of skin</li> <li>• Regulation of body temperature</li> <li>• Fluid and electrolyte</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts films</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

			balance. Alterations in disease Applications and implications in nursing		
IX	4	Describe the physiology of sensory organs	<b>The Sensory Organ</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	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, films</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
X	5	Describe the physiology of endocrine glands	<b>The Endocrine System</b> <ul style="list-style-type: none"> <li>• Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid, pancreas, Supra renal, Placenta and ovaries &amp; Testes</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, films</li> <li>• Demonstration of BMR</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective Type</li> </ul>
XI	5	Describe the physiology of male and female reproductive system	<b>The Reproductive System</b> Reproduction of cells - DNA, Mitosis, Meiosis, spermatogenesis, oogenesis. <ul style="list-style-type: none"> <li>• Functions of female reproductive organs; Functions of breast, Female sexual cycle.</li> <li>• Introduction to embryology.</li> <li>• Functions of male reproductive organs, Male function in reproduction, Male fertility system, Alterations in disease Applications and implications in nursing.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, films, models specimens</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective Type</li> </ul>
XII	2	Describe the physiology of Lymphatic and Immunological System	<b>Lymphatic and Immunological System</b> Circulation of lymph Immunity <ul style="list-style-type: none"> <li>• Formation of T-cells and cells</li> <li>• Types of Immune response</li> <li>• Antigens</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, films</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Cytokines</li> <li>• Antibodies</li> </ul> Applications and implications in nursing.		
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**Books list**

**Prescribed books :**

<b>S.No.</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Toratora	Principles of Anatomy and Physiology	
2.	Ross & Wilson	Anatomy and Physiology	

**Reference Books :**

<b>S.No.</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Ashalatha P.R	Principles of Anatomy and Physiology for nurses	
2.	Kimber & Gray	Anatomy and Physiology	

# NUTRITION

**Placement: First year**

**Theory – 45 hours**

**Practical – 20 hours**

**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 and its application for practice of nursing.

Unit	Time (Hrs) T P	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	7	<ul style="list-style-type: none"> <li>• Describe the relationship between nutrition &amp; Health</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Nutrition:               <ul style="list-style-type: none"> <li>- History</li> <li>- Concepts</li> </ul> </li> <li>• Role of nutrition in maintaining health</li> <li>• Nutritional problems in India</li> <li>• National nutritional policy</li> <li>• Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc</li> <li>• Role of food and its medicinal value</li> <li>• Classification of foods</li> <li>• Food standards</li> <li>• Food resources; World food problems.               <ul style="list-style-type: none"> <li>- Changes caused by Agriculture and overgrazing , effects of modern agriculture, - fertilizer -pesticide problems, water logging, salinity, case studies</li> </ul> </li> <li>• Elements of nutrition:               <ul style="list-style-type: none"> <li>• macro and micro nutrients</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Explaining using charts</li> <li>• Panel discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>



II	2		<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</li> <li>Caloric value</li> <li>Recommended daily allowances</li> <li>Dietary sources.</li> <li>Functions</li> </ul> <p>Digestion, absorption and storage, metabolism of carbohydrates</p> <p>Malnutrition: Deficiencies and Over consumption</p>	<p>Lecture, Discussion</p> <p>Explaining using charts</p>	<ul style="list-style-type: none"> <li>Short answer questions</li> <li>Objective Type</li> </ul>
III	2		<ul style="list-style-type: none"> <li>Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats</li> </ul>	<p><b>Fats</b></p> <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 Proteins</li> </ul>	<p><b>Proteins</b></p> <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>
V	3		<ul style="list-style-type: none"> <li>Describe the daily calorie requirement for different categories of people</li> </ul>	<p><b>Energy</b></p> <ul style="list-style-type: none"> <li>Unit of Energy - Kcal</li> <li>Energy requirements of different categories of people.</li> <li>Measurements of energy.</li> <li>Body Mass Index (BMI) and basic metabolism</li> <li>Basal Metabolic Rate (BMR) - determination and factors affecting</li> </ul>	<ul style="list-style-type: none"> <li>Lecture, Discussion</li> <li>Explaining using charts</li> <li>Exercise</li> <li>Demonstration</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 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>Hyper vitaminosis</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	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>
VIII	3		Describe the sources, functions and requirements of Water & electrolytes	<b>Water, Metabolism, &amp; Electrolytes</b> <ul style="list-style-type: none"> <li>Water: Daily requirement, regulation 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>	<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>

IX	6	15	Describe the Cookery rules and preservation of nutrients Prepare and serve simple beverages and different types of foods	<b>Cookery rules and preservation of nutrients</b> <ul style="list-style-type: none"> <li>Principles, methods of cooking and serving</li> <li>Preservation of nutrients</li> <li>Safe Food handling-toxicity</li> <li>Storage of food</li> <li>Food preservation, food additives and its principles</li> <li>Prevention of food adulteration Act (PFA)</li> <li>Food standards</li> </ul> Preparation of simple beverages and different types of food	<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>
X	7	5	Describe and plan balanced diet for different categories of people	<b>Balanced diet</b> <ul style="list-style-type: none"> <li>Elements</li> <li>Food groups</li> <li>Recommended Daily Allowance</li> <li>Nutritive value of foods</li> <li>Calculation of balanced diet for different categories of people</li> <li>Planning menu</li> <li>Budgeting of food</li> </ul> Introduction to therapeutic diets: Naturopathy --Diet	<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>

XI	5	Describe various national programmes related to nutrition Describe The role of nurse in assessment of nutritional status and nutrition Education	<b>Role of Nurse in Nutritional Programmes</b> <ul style="list-style-type: none"> <li>• National programmes related to nutrition <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> </ul> </li> <li>Integrated child development Scheme (ICDS)</li> <li>• National and International agencies working towards <ul style="list-style-type: none"> <li>• food/nutrition <ul style="list-style-type: none"> <li>- NIPCCD, CARE, FAO, NIN, CFTRI(Central food technology and research institute) etc</li> </ul> </li> </ul> </li> <li>Assessment of nutritional status</li> <li>Nutrition education and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Explaining using charts</li> <li>• Slide /Film shows</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>
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### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Swaminathan	Essentials of Food and Nutrition	The Bangalore printing and publishing
2.	Robinson & Proudfit	Normal & Therapeutic Nutrition	Macmillan Company

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Shukla	Nutritional problems in India	
2.	Anitha F.P. & Philip Abraham	Clinical dietetics & Nutrition	
3.	Carol west suitor & crowdy	Nutritional principles and application in health promotion	J.B. Lippincott
4.	B. Srilakshmi	Text Book of Nutriton for B.Sc (N)	New age International Publishers

# BIOCHEMISTRY

**Placement: First year**

**Theory - 30 Hours**

**Course Description:**

The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and alterations in the biochemistry in diseases for practice of nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	Describe the structure Composition and functions of cell Differentiate between Prokaryote and Eukaryote cell Identify techniques of Microscopy	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Definition and significance in nursing</li> <li>• Review of structure, Composition and functions of cell</li> <li>• Prokaryote and Eukaryote cell organization</li> </ul> Microscopy	Lecture, Discussion using charts, slides Demonstrate use of microscope	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
II	6	Describe the Structure and functions of Cellmembrane	<b>Structure and functions of Cell membrane</b> <ul style="list-style-type: none"> <li>• Fluid mosaic model</li> <li>tight junction, Cytoskeleton</li> <li>• Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump</li> <li>• Acid base balance maintenance &amp; diagnostic tests</li> <li>• PH buffers</li> </ul>	Lecture, discussion	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>

III	6	Explain the metabolism of carbohydrates	<p><b>Composition and Metabolism of Carbohydrates</b></p> <ul style="list-style-type: none"> <li>• Types, structure, composition and uses</li> <li>• Monosaccharides,</li> <li>• Disaccharides,</li> <li>• Polysaccharides,</li> <li>• Oligosaccharides</li> <li>• Metabolism</li> </ul> <p>Pathways of glucose: Glycolysis</p> <ul style="list-style-type: none"> <li>- Gluconeogenesis:</li> </ul> <p>Cori's cycle, Tricarboxylic acid (TCA) cycle</p> <ul style="list-style-type: none"> <li>- Glycogenolysis</li> <li>- Pentose phosphate pathways (Hexose mono phosphate)</li> <li>- Regulation of blood glucose level</li> </ul> <p>Investigations and their Interpretations</p>	Lecture, discussion Demonstration of blood glucose monitoring	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> </ul>
IV	4	Explain the metabolism of Lipids	<p><b>Composition and metabolism of Lipids</b></p> <ul style="list-style-type: none"> <li>• Types, structure, composition and uses of fatty acids</li> </ul> <p>Nomenclature, Roles and Prostaglandins</p> <ul style="list-style-type: none"> <li>• Metabolism of fatty acid</li> <li>- Breakdown</li> <li>- Synthesis</li> <li>• Metabolism of triacyl glycerols</li> <li>• Cholesterol metabolism</li> <li>- Biosynthesis and its Regulation</li> <li>- Bile salts and bilirubin</li> <li>- Vitamin D</li> <li>- Steroid hormones</li> <li>• Lipoproteins and their functions:</li> <li>- VLDLs- IDLs, LDLs and HDLs</li> <li>- Transport of lipids</li> </ul> <p>Atherosclerosis,</p>	<ul style="list-style-type: none"> <li>• Lecture,</li> <li>• 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>

			Investigations and their interpretations·		
V	6	Explain the metabolism of Amino acids and Proteins	<p><b>Composition and metabolism of Amino acids and Proteins</b></p> <ul style="list-style-type: none"> <li>• Types, structure, composition and uses of Amino acids and Proteins</li> <li>• Metabolism of Amino acids and Proteins</li> <li>• Protein synthesis, targeting and glycosylation</li> <li>- Chromatography</li> <li>- Electrophoresis</li> <li>- Sequencing·</li> <li>• Metabolism of Nitrogen</li> <li>- Fixation and Assimilation</li> <li>- Urea Cycle</li> <li>- Hemes and chlorophylls</li> <li>• Enzymes and co-enzymes</li> <li>- Classification, Properties</li> <li>- Kinetics and inhibition</li> </ul> <p>Control 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>
VI	2	Describe types, composition and utilization of Vitamins & minerals	<p><b>Composition of Vitamins and Minerals</b></p> <ul style="list-style-type: none"> <li>• Vitamins and minerals: Structure, - Classification</li> <li>- Properties</li> <li>- Absorption</li> <li>- Storage &amp; transportation</li> <li>- Normal concentration</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	Describe Immuno chemistry	<p><b>Immuno chemistry</b></p> <ul style="list-style-type: none"> <li>• Immune response,</li> <li>• Structure and classification of immunoglobins</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>

			<ul style="list-style-type: none"> <li>• Mechanism of antibody production</li> <li>• Antigens: HLA typing.</li> <li>• Free radical and Antioxidants.</li> <li>• Specialised 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>		
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#### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	U. Satyanarayana	Essentials of Biochemistry	

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Martin D.W	Harper's Review of Biochemistry	
2.	M.N. Chatterjee & Rana Schinde	Medical Biochemistry	



## NURSING FOUNDATIONS

**Placement: First year**

**Time: Theory - 265 hours**

**Practical - 650 hours**

**(200 lab and 450 clinical)**

**Course Description:**

This course is designed to help the students to develop an understanding of the philosophy, objectives, theories and process of nursing in various Supervised Clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in Supervised Clinical settings.

<b>Unit</b>	<b>Time (Hrs)</b>	<b>Learning Objectives</b>	<b>Content</b>	<b>Teaching Learning Activities</b>	<b>Assessment methods</b>
I	10	Describe the concept of health, illness and health care agencies	<ul style="list-style-type: none"> <li>• <b>Introduction</b></li> <li>Concept of Health: Health – Illness continuum</li> <li>• Factors influencing health</li> <li>• Causes and risk factors for developing illness</li> <li>• Body defences: Immunity and immunization</li> <li>• Illness and illness Behaviour:</li> <li>• Impact of illness on patient and family</li> <li>• Health Care Services: Health Promotion and prevention and Primary Care, Diagnosis, Treatment, Rehabilitation and Continuing Care</li> <li>• Health care teams</li> <li>• Types of health care agencies:</li> <li>• Hospitals: Types, Organization and Functions</li> <li>• Health Promotion and Levels of Disease Prevention</li> <li>• Primary health care and its delivery: Role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Visit to health care agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answer Questions</li> <li>• Objective type</li> </ul>

II	16	<p>Explain concept and scope of nursing</p> <p>Describe values, code of ethics and professional conduct for nurses in India</p>	<p><b>Nursing as a profession</b></p> <ul style="list-style-type: none"> <li>• Definition and Characteristics of a profession</li> <li>• Nursing: <ul style="list-style-type: none"> <li>- Definition, Concepts, philosophy, objectives</li> <li>- Characteristics, nature and scope of nursing practice</li> <li>- Functions of nurse</li> <li>- Qualities of a nurse</li> <li>- Categories of nursing personnel</li> <li>- Nursing as a Profession</li> <li>- History of Nursing in India</li> </ul> </li> <li>• Values: Definition, Types, Values</li> </ul> <p>Clarification and values in professional Nursing: Caring and Advocacy</p> <ul style="list-style-type: none"> <li>• Ethics: <ul style="list-style-type: none"> <li>- Definition and Ethical Principles</li> </ul> </li> <li>• Code of ethics and professional conduct for nurses</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Case discussion</li> <li>• Role plays</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answer</li> <li>• Objective type</li> </ul>
III	4	<p>Explain the admission and discharge procedure.</p> <p>Performs admission and discharge procedure</p>	<p><b>Hospital admission and discharge</b></p> <ul style="list-style-type: none"> <li>• Admission to the hospital <ul style="list-style-type: none"> <li>- Unit and its preparation, admission bed</li> <li>- Admission procedure</li> <li>- Special considerations</li> <li>- Medico-legal issues</li> <li>- Roles and Responsibilities of the nurse</li> </ul> </li> <li>• Discharge from the hospital <ul style="list-style-type: none"> <li>- Types: Planned discharge, LAMA and abscond, Referrals and transfers</li> <li>- Discharge Planning</li> <li>- Discharge procedure</li> <li>- Special considerations</li> <li>- Medico—legal issues</li> <li>- Roles and Responsibilities of the nurse</li> </ul> </li> <li>- Care of the unit after discharge</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Lab Practice</li> <li>• Supervised</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assess skills with check list</li> <li>• Clinical practical Examination</li> </ul>

IV	10	<p>Communicate effectively with patient, families and team member and maintain effective human relations (projecting professional image)</p> <p>Appreciate the importance of patient teaching in nursing</p>	<p><b>Communication and Nurse patient relationship</b></p> <ul style="list-style-type: none"> <li>• Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication <ul style="list-style-type: none"> <li>- Methods of Effective Communication,</li> <li>- Attending skills</li> <li>- Rapport building skills</li> <li>- Empathy skills</li> <li>- Barriers to effective communication,</li> </ul> </li> <li>• Helping Relationships (NPR): <ul style="list-style-type: none"> <li>Dimensions of Helping. Relationships, Phases of a helping relationship</li> </ul> </li> <li>• Communicating effectively with patient, families and team members and maintain effective human relations with special reference to communicating with vulnerable group (children, women, physically and mentally challenged and elderly)</li> <li>• Patient Teaching: Importance, Purposes, Process, role of nurse and Integrating teaching in Nursing Process</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Role play and video film on the nurses interacting with the patient</li> <li>• Practice session on patient teaching</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> </ul>
V	15	<p>Explain the concept, uses, format and steps of nursing process Documents nursing process as per the format</p>	<p><b>The Nursing Process</b></p> <ul style="list-style-type: none"> <li>• Critical Thinking and Nursing Judgment <ul style="list-style-type: none"> <li>- Critical Thinking: Thinking and Learning,</li> <li>- Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing</li> </ul> </li> <li>• Nursing Process Overview: Application in Practice <ul style="list-style-type: none"> <li>- Nursing process format: INC,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Exercise</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<p>current format</p> <ul style="list-style-type: none"> <li>- Assessment :</li> </ul> <p>Collection of Data: Types, Sources, Methods, Formulating Nursing judgment: Data interpretation</p> <ul style="list-style-type: none"> <li>- Nursing diagnosis</li> <li>- Identification of client problems</li> </ul> <p>Nursing diagnosis statement</p> <ul style="list-style-type: none"> <li>- Difference between medical and</li> <li>- Nursing diagnosis</li> </ul> <p>Planning</p> <ul style="list-style-type: none"> <li>- Establishing Priorities</li> <li>- Establishing Goals and Expected Outcomes,</li> </ul> <p>Selection of interventions: Protocols and standing Orders</p> <ul style="list-style-type: none"> <li>- Writing the Nursing Care Plan</li> <li>- Implementation</li> <li>- Implementing the plan of care</li> <li>- Evaluation</li> <li>- Outcome of care</li> <li>- Review and modify</li> <li>- Documentation and Reporting</li> </ul>		
VI	4	Describe the purposes, types and techniques of recording and reporting	<p><b>Documentation and Reporting</b></p> <ul style="list-style-type: none"> <li>• Documentation: Purposes of Recording and reporting</li> <li>• Communication within the Health Care Team,</li> <li>• Types of records; ward records, medical/nursing records,</li> <li>• Common Record-keeping forms, Computerized documentation</li> <li>• Guidelines for Reporting: Factual Basis, Accuracy, Completeness, currentness, Organization, confidentiality</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Methods of Recording,</li> <li>• Reporting: Change-of shift reports: Transfer reports, Incident reports</li> <li>• Minimizing legal Liability through effective record keeping</li> </ul>		
VII	15	Describe principles and techniques of monitoring and maintaining vital signs Monitor and maintain vital Signs	<p><b>Vital signs</b></p> <ul style="list-style-type: none"> <li>• Guidelines for taking vital signs:</li> <li>• Body temperature: <ul style="list-style-type: none"> <li>- Physiology, Regulation, Factors affecting body temperature,</li> <li>- Assessment of body temperature: sites, equipments and technique, special considerations</li> <li>- Temperature alterations: Heatstroke, Hypothermia Hot and cold applications</li> </ul> </li> <li>• Pulse: <ul style="list-style-type: none"> <li>- Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse</li> <li>- Assessment of pulse: sites, location, equipments and technique, special considerations</li> <li>- Alterations in pulse:</li> </ul> </li> <li>• Respiration: <ul style="list-style-type: none"> <li>- Physiology and Regulation, Mechanics of breathing Characteristics of the respiration, Factors affecting respiration</li> <li>- Assessment of respirations: technique, special considerations</li> <li>- Alterations in respiration</li> </ul> </li> <li>• Blood pressure: <ul style="list-style-type: none"> <li>- Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assess with check list and Clinical practical</li> </ul>

			<ul style="list-style-type: none"> <li>- Assessment of blood pressure: sites, equipments and technique,</li> <li>special considerations</li> <li>- Alterations in blood pressure</li> <li>• Recording of vital signs</li> </ul>		
VIII	30	<p>Describe purpose and process of health assessment</p> <p>Describe the health assessment each body system</p> <p>Perform health assessment of each body system</p>	<p><b>Health assessment</b></p> <ul style="list-style-type: none"> <li>• Purposes</li> <li>• Process of Health assessment <ul style="list-style-type: none"> <li>- Health history</li> <li>- Physical examination: <ul style="list-style-type: none"> <li>- Methods- inspection, Palpation, Percussion, Auscultation, Olfaction</li> </ul> </li> <li>Preparation for examination: patient and unit. <ul style="list-style-type: none"> <li>- General assessment</li> <li>- Assessment of each body System</li> <li>- Recording of health assessment.</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice on simulators</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> </ul>
IX	5	Identifies the various machinery, equipment and linen and their care	<p><b>Machinery, Equipment and linen</b></p> <p>Types: Disposables and re-usable</p> <ul style="list-style-type: none"> <li>- Linen, rubber goods, glass ware, metal, plastics, furniture, machinery</li> </ul> <p>Introduction :</p> <ul style="list-style-type: none"> <li>- Indent</li> <li>- Maintenance</li> <li>- Inventory</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> </ul>
X	60	<p>Describe the basic, physiological and psychosocial needs of patient</p> <p>Describe the principles and techniques for meeting basic, Physiological and</p>	<p><b>Meeting needs of patient</b></p> <ul style="list-style-type: none"> <li>• Basic needs (Activities of daily living) <ul style="list-style-type: none"> <li>- Providing safe and clean environment: <ul style="list-style-type: none"> <li>- Physical -environment: <ul style="list-style-type: none"> <li>- Temperature, Humidity, Noise, Ventilation, light, Odour, pest control</li> </ul> </li> <li>- Reduction of Physical hazards: <ul style="list-style-type: none"> <li>fire, accidents</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Practice sessions</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> <li>• Assess the check list and clinical practical</li> </ul>

	<p>psychosocial needs of patient</p> <p>Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient</p>	<ul style="list-style-type: none"> <li>- Safety devices: Restraints, side rails, airways, trapez etc</li> <li>- Role of nurse in providing safe and clean environment</li> <li>- Hygiene: -</li> <li>- Factors Influencing</li> <li>- Hygienic Practice</li> <li>- Hygienic care: Care of the</li> <li>- Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose</li> <li>- Assessment, Principles, Types, Equipments, Procedure, Special Considerations</li> <li>- Patient environment: Room Equipment and linen, Making patient beds Types of beds and bed making</li> <li>- Comfort: -</li> <li>- Factors Influencing Comfort</li> <li>- Comfort devices</li> <li>Physiological needs:</li> <li>- Sleep and Rest:</li> <li>- Physiology of sleep</li> <li>- Factors affecting sleep</li> <li>- Promoting Rest and sleep</li> <li>- Sleep Disorders</li> <li>- Nutrition</li> <li>- Importance, Factors affecting nutritional needs, Assessment of nutritional needs: Variables Meeting Nutritional needs, Principles, equipments, procedure and special considerations</li> <li>-oral</li> <li>- Enteral: Naso/ Orogastric, gastrostomy</li> <li>-Parenteral</li> <li>Urinary Elimination :</li> <li>- Review of Physiology of urine elimination,</li> </ul>	<p>examination</p>
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			<p>composition and characteristics of urine</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:</li> <li>Observation, urine testing</li> <li>- Facilitating urine elimination:</li> <li>assessment, types, equipments, procedures and special Considerations</li> <li>- Providing urinal / bed pan</li> <li>- Condom drainage</li> <li>- Perineal care, Catheterization</li> <li>- Care of urinary drainage</li> <li>- Care of urinary diversions</li> <li>- Bladder irrigation,</li> <li>- Bowel Elimination</li> <li>- Review of Physiology of Bowel Elimination, Composition and characteristics of feces</li> <li>- Factors affecting Bowel elimination</li> <li>Alteration in Bowel Elimination</li> <li>Types of collection of specimen feces-</li> <li>observation, Facilitating bowel elimination:</li> <li>assessment, equipments, procedures and special considerations</li> <li>Passing of Flatus tube, Enemas</li> <li>Suppository, Sitz bath, Bowel wash</li> <li>Care of Ostomies</li> <li>- Mobility and Immobility</li> <li>- Principles of Body Mechanics</li> <li>- Maintenance of normal body Alignment and mobility</li> <li>- Factors affecting body Alignment and mobility</li> </ul>	
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			<ul style="list-style-type: none"> <li>- Hazards associated with immobility</li> <li>- Alteration in body Alignment and mobility, - Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects</li> <li>- Range of motion exercises</li> <li>- Maintaining body alignment: Positions, Moving, Lifting, Transferring, Walking, Restraints</li> <li>- Oxygenation</li> <li>- Review of Cardiovascular and respiratory Physiology</li> <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 Oxygen administration</li> <li>Suction, Inhalations: dry and moist Chest physiotherapy and postural drainage</li> <li>Care of Chest drainage, Pulse oximetry, CPR- Basic life support - Fluid, Electrolyte, and Acid - Base Balances</li> <li>- Review of Physiological Regulation of Fluid, Electrolyte, and Acid -Base Balances</li> <li>- Factors Affecting Fluid, Electrolyte, and Acid - Base Balances</li> <li>- Alterations in Fluid, Electrolyte, and Acid - Base Balances</li> </ul>	
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			<p>Nursing interventions in Fluid, Electrolyte, and Acid-Base imbalances: assessment, types equipment, procedure and special considerations</p> <p>Measuring fluid intake and output</p> <p>Correcting Fluid, Electrolyte Imbalance :</p> <ul style="list-style-type: none"> <li>- Replacement of fluids Oral and Parenteral Venipuncture, regulating IV Flow rates, changing IV solutions and tubing, Changing IV dressing, Administering Blood transfusion, Restriction of fluids, Psychosocial Needs Concepts of Cultural Diversity, Stress and Adaptation, Self-concept, Sexuality, Spiritual Health, Coping with loss, death and grieving, Assessment of psychosocial needs</li> <li>- Nursing intervention for psychosocial needs Assist with coping and adaptation</li> <li>Creating therapeutic environment</li> <li>- Recreational and diversional Therapies</li> </ul>		
XI	20	Describe principles and techniques for infection control and biomedical waste management in Supervised Clinical settings	<p><b>Infection control in Clinical settings</b></p> <ul style="list-style-type: none"> <li>• Infection control <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> </ul> </li> <li>• Concept of asepsis: medical asepsis, and surgical asepsis</li> <li>Isolation precautions (Barrier nursing): - Hand washing: simple, hand antiseptics and surgical antiseptics (scrub)</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised Clinical Practice</li> </ul>	

			<ul style="list-style-type: none"> <li>- Isolation: source and protective</li> <li>-Personal protecting equipments: types, uses and technique of wearing and removing of gloves</li> <li>-Decontamination of equipment and unit</li> <li>-Transportation of infected patients</li> <li>-Standard safety precautions (Universal precautions)</li> <li>-Transmission based precautions <ul style="list-style-type: none"> <li>• Biomedical waste management: <ul style="list-style-type: none"> <li>Importance</li> <li>- Types of hospital waste</li> <li>- Hazards associated with hospital waste</li> <li>- Decontamination of hospital Waste</li> <li>- Segregation and Transportation and disposal</li> </ul> </li> </ul> </li> </ul>		
XII	40	<p>Explain the principles, routes, effects of administration of medications Calculate, conversions of drugs and dosages within and between systems of measurements</p> <p>Administer drugs by the following routes- oral, Intra-dermal, Subcutaneous Intramuscular, Intra Venous topical,</p>	<p><b>Administration of Medications:</b></p> <ul style="list-style-type: none"> <li>• General Principles / consideration</li> <li>-Purposes of Medication</li> <li>-Principles: 5 rights; special consideration; Prescriptions; Safety in Administering Medications Errors;</li> <li>-Drug Forms;</li> <li>-Routes of administration</li> <li>-Storage and maintenance of drugs and Nurses responsibility</li> <li>-Broad classification of drugs: <ul style="list-style-type: none"> <li>- Therapeutic Effect, Side Effects, Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions,</li> <li>- Factors Influencing drug Actions,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Objective type</li> <li>• Assess with check list and clinical practical examination</li> </ul>

		inhalation.	<ul style="list-style-type: none"> <li>- Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions.</li> <li>- Converting Measurements Units: Conversion within one system, Conversion between systems, Dosage Calculation,</li> <li>- Terminologies and abbreviations used in prescriptions of medications</li> <li>• Oral Drugs Administration: Oral, Sub lingual and Buccal: Equipment, procedure</li> <li>• Parenteral <ul style="list-style-type: none"> <li>-General principles: decontamination and disposal of syringes and needles</li> <li>-Types of parenteral therapies</li> <li>- Types of syringes, needles, canula, and infusion sets</li> <li>- Protection from Needle stick, Injuries : Giving Medications with a safety syringes</li> <li>- Routes of parenteral therapies</li> <li>Intra-dermal: purpose, site, equipment, procedure, special considerations</li> <li>-Subcutaneous: purpose, site, equipment, procedure, special considerations</li> <li>-Intramuscular: purpose, site, equipment, procedure, special considerations</li> <li>-Intra Venous: purpose, site, equipment, procedure, special considerations</li> <li>- Advanced techniques: epidural, intra-thecal, intra-osseous, intra-peritoneal, intra-plural, intra-arterial-</li> </ul> </li> </ul>		
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			<p>Role of nurse</p> <ul style="list-style-type: none"> <li>• Topical Administration: purposes, site, equipment, procedure, special considerations for <ul style="list-style-type: none"> <li>- Application to Skin</li> <li>- Application to mucous membrane</li> <li>- Direct application of liquids-Gargle and swabbing the throat</li> <li>- Insertion of Drug into body cavity: Suppository, medicated packing in rectum/vagina</li> <li>- Instillations:, Ear, Eye, Nasal, Bladder, and Rectal</li> <li>-Irrigations: Eye, Ear, Bladder, Vaginal and Rectal</li> <li>- Spraying: Nose and throat</li> </ul> </li> <li>• Inhalation: Nasal, oral, endotracheal (steam, oxygen and medications) purposes, types, equipment, procedure, special considerations <ul style="list-style-type: none"> <li>- Recording and reporting of medications administered</li> </ul> </li> </ul>		
XIII	10	<p>Describe the pre and post operative care of patients</p> <p>Explain the process of wound healing</p> <p>Explain the principles and techniques of care</p> <p>Perform care of wound</p>	<p><b>Meeting needs of Peri operative 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>- Preparation of patient for surgery</li> </ul> </li> <li>• Intraoperative <ul style="list-style-type: none"> <li>- Operation theatre Set up and Environment</li> <li>- Role of nurse</li> </ul> </li> <li>• Postoperative Phase <ul style="list-style-type: none"> <li>- Recovery unit</li> <li>- Post operative unit</li> <li>- Postoperative care,</li> </ul> </li> <li>• Wounds: types, Classifications, wound Healing Process, Factors affecting Wound, Complications of Wound Healing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Practical session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> <li>• Assess with check list and clinical practical examination</li> </ul>

			<ul style="list-style-type: none"> <li>• Surgical asepsis</li> <li>• Care of the wound: types, equipments, procedure and special considerations <ul style="list-style-type: none"> <li>- Dressings, Suture Care,</li> <li>- Care of Drainage</li> <li>- Application of Bandages, Binders, Splints &amp; Slings</li> <li>- Heat and Cold Therapy</li> </ul> </li> </ul>		
XIV	15	Explain care of patients having alterations in body functioning	<p><b>Meeting special needs of the patient</b></p> <ul style="list-style-type: none"> <li>• Care of patients having alteration in: <ul style="list-style-type: none"> <li>- Temperature (hyper and hypothermia); Types,</li> <li>- Assessment, Management</li> <li>- Sensorium (Unconsciousness); Assessment, Management</li> <li>- Urinary Elimination (retention and incontinence); Assessment, Management</li> <li>- Functioning of sensory organs: (Visual &amp; hearing impairment)</li> <li>- Assessment of Self-Care ability</li> <li>- Communication Methods and special considerations</li> <li>- Mobility (physically challenged, cast), assessment of Self-Care ability: Communication Methods and special considerations</li> <li>- Mental state (mentally challenged) assessment of Self- Care ability;</li> <li>- Communication Methods and special considerations</li> <li>Respiration (distress); Types, Assessment, Management</li> <li>- Comfort - (Pain) - Nature, Types, Factors influencing Pain, Coping, Assessment, Management;</li> </ul> </li> <li>• Treatment related to gastrointestinal</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Case discussions</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> </ul>

			system: nasogastric suction, gastric irrigation, gastric – analysis		
XV	5	Explain care of terminally ill patient	<ul style="list-style-type: none"> <li>• <b>Care of Terminally ill patient</b></li> <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</li> <li>- Care of dead body : equipment, procedure and care of unit</li> <li>- Autopsy</li> <li>- Embalming</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Case discussion / Role Play</li> <li>• Practical session</li> <li>• Supervised clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short Answers</li> <li>• Objective Type</li> </ul>
XVI	6	Explain the basic concepts of conceptual and theoretical models of nursing	<ul style="list-style-type: none"> <li>• <b>Professional Nursing concepts and practices</b></li> <li>• Conceptual and theoretical models of nursing practice: Introduction to models- holistic model, health belief model, health promotion model etc</li> <li>• Introduction to Theories in Nursing; Peplau's, Anderson's, Orem's, Neuman's, Roger's and Roy's</li> <li>• Linking theories with nursing process</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short Answers</li> </ul>

### Book list

#### Prescribed Books

S.No	Prescribed Author	Title	Publisher
1.	Kozier & Erbs	Fundamentals of Nursing	Pearson Education
2.	Taylor	Fundamentals of Nursing	L.W.W
3.	Luckman & Sorensen	Basic Nursing and psychophysiologic approach	W.B. Saunder
4.	T.N.A.I	History of Nursing in India, Nods	TNAI

#### First aid:

S.No.	Prescribed Author	Title	Publisher
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1.	Gupta C & Gupta L	First aid management of injuries & Minor Elements	Viva
2.	Shashank Parulekar	Bandages	Vora publications

**References:**

<b>S.No</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Potter & perry	Basic Nursing, essentials, for practice	LWW
2.	Furest & Wolf	Fundamentals of Nursing	J.B. Lippincott
3.	M-Nettina sandarac	Lippincott Manual of Nursing Practice	LWW
4.	Dewit Susen C.	Fundamentals concepts and skills for Nursing	Elesweier
5.	Dorothy Ethert	Scientific principles and Nursing	C.V. Mosby 1902



## NURSING FOUNDATIONS- PRACTICAL

**Placement: First year**

**Time: Practical-650 hours  
(200 lab and 450 clinical)**

**Course Description:**

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

Areas	Time(Hrs)	Objectives	Skills	Assignments	Assessment methods
Demonstration Lab General Medical and surgery ward 550 Minimum practice time in clinical area	200+ 550 hrs Minimum practice time in clinical area	Performs admission and discharge procedure	<b>Hospital admission and discharge (III)</b> • Admission • Prepare Unit for new patient • Prepare admission bed • Performs admission procedure - New patient - Transfer in • Prepare patient records <b>Discharge/Transfer out</b> • Gives discharge counseling • Perform discharge procedure (Planned discharge, LAMA and abscond, Referrals and transfers) • Prepare records of discharge/transfer • Dismantle, and disinfect unit and equipment after discharge/transfer	Practice in Unit Hospital	• Evaluate with checklist • Assessment of clinical performance with rating scale • Completion of Practical record
		Prepares nursing care plan as per the nursing	<b>Perform assessment:</b> • History taking, Nursing diagnosis, problem list,	• Write nursing • process records of patient	• Assessment of • nursing process records with

		process format	Prioritization, Goals & Expected Outcomes, selection of interventions <ul style="list-style-type: none"> <li>• Write Nursing Care Plan</li> <li>• Gives care as per the plan</li> </ul>	Simulated -1 <ul style="list-style-type: none"> <li>• Actual -1</li> </ul>	checklist <ul style="list-style-type: none"> <li>• Assessment of actual care given with rating scale</li> </ul>
		Communicate effectively with patient, families and team members and Maintain effective human relations Develops plan for patient teaching	Communication Use verbal and non verbal communication techniques Prepare a plan for patient teaching session	• Role-plays In simulated situations oncommunication techniques-I Health talk-I	• Assess role plays with the checklist on communication techniques Assess health talk with the checklist Assess-ment of communication techniques by rating scale
		Prepare patient reports, Presents reports,	<b>Write patient report</b> Change-of shift reports Transfer reports Incident reports etc. Presents patient report	• Write nurses notes and present the patient report of 2 -3 assigned patient	• Assessment of performance with rating scale
		Monitor vital signs	<b>Vital signs</b> Measure, Records and interpret alterations in body temperature, pulse, respiration and blood pressure	• Lab practice • Measure Vital signs of assigned patient	• Assessment of each skills with checklist • Completion of activity record
		Perform health assessment of each body system	<b>Health assessment</b> Health history taking Perform assessment: - General - Body systems Use various methods of physical examination Inspection, Palpation, Percussion, Auscultation,		

			Olfaction Identification of system wise deviations		
		Provide basic nursing care to patients	<p><b>Prepare Patient's unit</b></p> <p>Prepare beds:</p> <ul style="list-style-type: none"> <li>- Open, closed, occupied, Operation, amputation,</li> <li>- Cardiac, fracture, burn, divided &amp; Fowlers bed</li> </ul> <ul style="list-style-type: none"> <li>• Pain assessment and provision for comfort devices</li> </ul> <p><b>Use comfort devices</b></p> <p><b>Hygienic care</b></p> <ul style="list-style-type: none"> <li>• Oral Hygiene</li> <li>• Baths and care of pressure points</li> <li>• Hair wash, Pediculosis treatment</li> </ul> <p><b>Feeding:</b></p> <ul style="list-style-type: none"> <li>• Oral, Enternal, Naso/Orogastric, gastostomy and parenteral feeding</li> <li>• Naso-gastric insertion, section, and irrigation</li> </ul> <p><b>Assisting patient in urinary elimination</b></p> <ul style="list-style-type: none"> <li>• provide urinal / bed pan</li> <li>• Condom drainage</li> <li>• Perineal care</li> <li>• Catheterization</li> <li>• Care of urinary drainage</li> </ul> <p><b>Bladder irrigation</b></p> <p><b>Assisting bowel Elimination</b></p> <ul style="list-style-type: none"> <li>• Insertion of Flatus tube</li> <li>• Enemas</li> <li>• Insertion of suppository</li> </ul> <p><b>Body alignment and mobility :</b></p>	<ul style="list-style-type: none"> <li>• Practical lab &amp; hospital</li> <li>• Simulated exercise on CPR mankin</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of each skill with rating scale</li> <li>• Completion of activity record</li> </ul>

			<p>- Range of motion exercises</p> <p>- Positioning :  Recumbent, Lateral (rt/lt), Fowlers, Sims, Lithotomy, Prone, Trendelenburg position</p> <p>- Assist patient in moving lifting, transferring, walking</p> <p>- Restraints</p> <p>Oxygen administration</p> <p>Suctioning :  Oropharyngeal, nasopharyngeal</p> <p>Chest physiotherapy and postural drainage</p> <p>CPR - Basic life support, Intravenous therapy Blood and blood component therapy Collect / assist for collection of specimens for investigations Urine, sputum, faces, vomitus, blood and other body fluids</p> <p><b>Perform lab tests :</b></p> <ul style="list-style-type: none"> <li>• Urine : sugar, albumin acetone</li> <li>• Blood sugar (with strip / gluco - meter) Hot and cold applications :</li> </ul> <p>Local and general sitz bath</p> <p>Communicating and assisting with self-care of visually &amp; hearing impaired patients,</p> <p>Communicating and assisting with self-care of mentally challenged/</p>	
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			<p>disturbed patients</p> <p><b>Recreational and diversional therapies</b> Caring of patient with alteration of sensorium</p>		
		<ul style="list-style-type: none"> <li>• Perform infection control procedures</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>- (Simple, hand antisepsis and surgical antisepsis (scrub)</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 (Universal precautions)</li> </ul> </li> </ul> <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>- Calculate strengths of lotion</li> <li>- Prepare lotions</li> <li>- Care of articles</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Observation study -2</li> <li>• Department of Infection control &amp; CSSD</li> <li>• Visits CSSD</li> <li>• Write Observation report</li> <li>• Collection of samples for culture</li> <li>• Do clinical posting in infection control department and write report</li> <li>• Practice in lab/ward</li> </ul>	<ul style="list-style-type: none"> <li>• Assess observation study with check list</li> <li>• Evaluate all procedures with checklist</li> </ul>
		<p>Provide care to pre and post operative patients</p> <p>Perform procedure for care of wounds</p>	<p><b>Pre and post operative care :</b></p> <ul style="list-style-type: none"> <li>• Skin preparation for surgery : Local preparation of post operative unit</li> <li>• Pre &amp; post operative teaching and counseling</li> <li>• Pre and post operative</li> </ul>		

			monitoring <ul style="list-style-type: none"> <li>• Care of the wound</li> <li>• Dressings, suture care, care of drainage</li> </ul> Application of Bandages, Binders splints & slings <ul style="list-style-type: none"> <li>• Bandaging of various body parts</li> </ul>		
	100	Admister drugs	<b>Administration of medications</b> <ul style="list-style-type: none"> <li>• Administer medications in different forms and routes</li> <li>• Oral, sublingual and Buccal</li> <li>• Parenteral : Intramuscular etc.,</li> <li>• Assist with Intra venous medications</li> <li>• Drug measurements and dose calculations</li> <li>• Drug measurements and dose calculations</li> <li>• Preparation of lotions and solutions</li> <li>• Administers topical applications</li> <li>• Insertion of drug into body cavity : Suppository &amp; medicated packing etc.,</li> <li>• Instillation of medicines and spray into ear, eye, nose and throat</li> <li>• Irrigations : Eye, ear, bladder, vagina and rectum</li> <li>• Inhalations : dry and moist</li> </ul>		
		Provide	<b>Care of dying</b>		

		care to dying and dead Counsel and support relatives	<b>patient</b> • Caring and packing of dead body • Counseling and supporting grieving relatives • Terminal ill care		
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# PSYCHOLOGY

**Placement: First year**

**Time: Theory - 60 hours**

**Course Description:**

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	2	Describe the history, scope and methods of psychology	<b>Introduction</b> <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 discussion</li> </ul>	<ul style="list-style-type: none"> <li>Essay type</li> <li>Short answers</li> </ul>
II	4	Explain the biology of Human behaviour	<b>Biology of behaviour</b> <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 organism /Integrated responses</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
III	20	Describe various cognitive processes and their applications	<b>Cognitive processes</b> <ul style="list-style-type: none"> <li>• Attention: Types, determinants, Duration &amp; degree, alterations</li> <li>• Perception: Meaning, Principles, factors affecting, Errors,</li> <li>• Learning: Nature, Types, learner and learning, Factors influencing, laws</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Psychometric assessment:</li> <li>• Practice sessions</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>Short answers</li> </ul>



			<p>and theories, process, transfer, study habits</p> <ul style="list-style-type: none"> <li>• Memory: Meaning, Types, Nature Factors influencing, Development Theories and methods of memorizing and Forgetting</li> <li>• Thinking: Types and level, stages of development, Relationship with language and communication</li> <li>• Intelligence: Meaning, classification, uses, theories</li> <li>• Aptitude: Concept, types, Individual differences and variability Psychometric assessments of cognitive processes</li> <li>• Alterations in cognitive processes • Applications</li> </ul>		
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IV	8	Describe motivation, emotions, stress, attitudes and their influence on behaviour	<b>Motivation and Emotional Processes:</b> <ul style="list-style-type: none"> <li>• Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, Conflicts and frustration, conflict resolution</li> <li>• Emotions &amp; stress <ul style="list-style-type: none"> <li>- Emotion: Definition, components, Changes in emotions, theories emotional adjustments, emotions in health and illness</li> <li>- Stress: stressors, cycle, effect, adaptation &amp; coping</li> </ul> </li> <li>• Attitude: Meaning , nature development, factors affecting, <ul style="list-style-type: none"> <li>- Behaviour and attitudes</li> <li>- Attitudinal change</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</li> <li>• 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 answers</li> </ul>
V	7	Explain the concepts of personality and its influence on behaviour	<b>Personality</b> <ul style="list-style-type: none"> <li>• Definitions, topography, types, Theories</li> <li>• Psychometric assessments of personality</li> <li>• Alterations in personality</li> <li>• Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
VI	7	Describe psychology of people during the life cycle	<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 Psychology of groups</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Case discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

VII	8	Describe the characteristics of Mentally healthy Person Explain ego defence mechanisms	<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 defence mechanism and implication</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</li> <li>• 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 answers</li> </ul>
VIII	4	Explain the Psychological assessments and role of nurse	<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</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> <li>• Practice sessions</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of practice</li> </ul>

### Book list

#### Prescribed Books :

S.No	Prescribed Author	Title	Publisher
1.	Bhatia & Craig	Elements of Psychology and Mental Hygiene for Nurses in India	Orient Longman

#### Reference Books :

S.No	Prescribed Author	Title	Publisher
1.	Cruese	Psychology in Nursing	
2.	Jain D. Pal	Abnormal Psychology	
3.	Crow & Crow	Psychology in Nursing Practice	
4.	Averill & Kempt	Psychology applied to nursing	
5.	Zwerner	Psychology for Nurses	

# MICROBIOLOGY

**Placement: First year Time:**

**Theory – 60 hours  
(Theory 45+15 lab)**

**Course Description:**

This course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	2		Explain concepts and principles of microbiology and their Importance in nursing	<b>Introduction:</b> <ul style="list-style-type: none"> <li>• Importance of microbiology and relevance to nursing</li> <li>• Historical perspective</li> <li>• Concepts and terminology</li> <li>• Principles of microbiology</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective Type</li> </ul>
II	12		Describe structure, classification morphology and growth of bacteria and the different disease producing organisms	<b>General characteristics of Bacteria</b> <ul style="list-style-type: none"> <li>• Structure and classification</li> <li>• Microscopy and staining</li> <li>• Size and form of bacteria Motility, Colonization of bacteria in various parts of the body</li> <li>Growth and nutrition of bacteria Culture media</li> <li>Antibiotic sensitivity testing</li> </ul> <b>Pathogenic bacteria:</b> pathogenicity, laboratory diagnosis and prophylaxis <b>Gram positive bacilli-</b> corny bacterium diphtheria, clostridium tetani, clostridium perfringens, clostridium botulinum, bacillus anthracis, bacillus cereus	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Demonstration</li> </ul>	Short answer questions Objective type

			<p><b>Gram negative bacilli-</b>  Group-1: intestinal bacilli-E. Coli, klebsiella, proteus, salmonella, shigella  Group II- Non intestinal gram negative Bacilli-bordetella, hemophilus  Group-III Gram negative curved bacilli (Vibrio cholerae) Acid fat bacilli  Mycobacterium Tuberculosis, mycobacterium leprae</p> <ul style="list-style-type: none"> <li>• Spirochaetes ; treponema pallidum, borellia recurrentis, borellia vincentil, leptospira ictero hemorrhagica.</li> <li>Rickettsiae; chlamydiae; mycoplasma.</li> <li>• Collection and transport of clinical samples to laboratory</li> </ul>		
III	5	Describe the different disease producing viruses.	<p><b>Viruses: pathogenicity, laboratory diagnosis, and prophylaxis.</b></p> <ul style="list-style-type: none"> <li>• General properties of viruses; structure, resistance of virus, viral multiplication, virus cultivation, taxonomic classification of viruses, interferons, inclusion bodies, antiviral agents.</li> <li>• Specimen collection and transport for viral diseases</li> <li>• RNA viruses: poliomyelitis, influenza, mumps, rubella, rabies, Japanese encephalitis, dengue, KFD, Chikungunya,</li> <li>• DNA virus: variola, molluscum contagiosum, varicella zoster virus,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Demonstration</li> <li>• Visits to CSSD Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>

			Epstein - barr virus, adeno virus, papilloma virus. • Viral hepatitis- H- A,B,C,D,E • Rota virus, Sars Virus, HIV virus			
IV	3		Describe the different disease producing fungi	<p><b>Pathogenic fungi:</b></p> <ul style="list-style-type: none"> <li>• pathogenicity, clinical picture ,laboratory diagnosis and prophylaxis</li> <li>• Introduction: pathogenic and opportunistic fungi, classification, anti fungal agents</li> <li>• Superficial micoses; piedra, tinea nigra</li> <li>• Cutaneous mycoses: mycetoma, rhinosporidiosis</li> <li>• Systemic mycoses; histoplasmosis, cryptococcosis, rhino orbito cerebral phycomycosis</li> <li>• Opportunistic mycoses: otomycosis, oculomycosis, pulmonary aspergillosis.</li> <li>• Mycetism and mycototoxicosis.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
V	5		Discuss about different parasites	<ul style="list-style-type: none"> <li>• <b>Parasites;</b> Mode of Infection, Pathogenecity, Clinical Picture, Laboratory Diagnosis</li> <li>• Protozoal infections- amoebiasis, trichomoniasis, trypanosomiasis, leishmaniasis, malaria, toxoplasmosis, pneumosistis jirovecii, cryptosporidium</li> <li>• Nematode infections;</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

				<p>ascaris lumbricoides,  ancylostoma  duodenale, enterobius  vermicularis, trichuris  trichuira, strongyloides  stercoralis, wucheraria  bancrofti, dracunculus  medinensis</p> <ul style="list-style-type: none"> <li>• Cestode infections;  taenia  saginata, taenia solium,  diphylobothrium latum.</li> <li>• Trematode  infections;schistosoma  hematobium, fasciola  hepatica, fasciolopsis  buskii, clonorchis  sinensis,paragonimus  westermanii</li> <li>• <b>Rodents and vectors</b></li> </ul>		
VI	8		<p>Explain the  concept of  immunity, hyper  sensitivity and  immunization</p>	<p><b>Immunity</b></p> <ul style="list-style-type: none"> <li>• Immunity-definition,  Types, classification</li> <li>• Antigen and antibody  reaction</li> <li>• Hypersensitivity - skin  test</li> <li>• Serological tests</li> <li>• Immunoprophylaxis</li> <li>• Vaccines &amp; sera -  Types &amp; Classification,  storage and handling,  cold chain</li> <li>• Immunization for  various Diseases  - Immunization  Schedule</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture  Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short  answers</li> <li>• Objective  type</li> </ul>
VII	8	3	<p>Describe the  methods of  infection control  Identify the role of  nurse in hospital  infection control  programme</p>	<p><b>Infection control</b></p> <ul style="list-style-type: none"> <li>• Infection: definition,  types, Sources, portals of  entry and exit,  transmission</li> <li>• Asepsis&amp; Disinfection;  Types and methods</li> <li>• Sterilization; Types  and methods</li> <li>• Chemotherapy and  antibiotics</li> <li>• Standard safety  measures</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture  Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short  answers</li> <li>• Objective  type</li> </ul>



				<ul style="list-style-type: none"> <li>• Biomedical waste management</li> <li>• Role of Nurse</li> <li>• Hospital acquired infection</li> <li>• Hospital infection control programme</li> </ul> Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc		
VIII	2	12	Demonstration the various types of microbiological procedures.	<b>Demonstration of practical procedures in microbiology:</b> <ul style="list-style-type: none"> <li>• Microscopy ; types, parts Use of microscope Hanging drop preparation; Simple staining Gram's staining, composition Ziehl Nielsen's staining (Acid fast staining), Albert's staining Widal test, VDRL test Culture and sensitivity test</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Anantanarayana	Text book of Microbiology	
2.	Baveja	Text book of Microbiology	

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Simmons N.H.	Text book of Microbiology	Frontline publications
2.	Dr. M.V. Ramanamma	An Introduction to microbiology for Nurses	William Heinman 1980

# INTRODUCTION TO COMPUTERS

**Placement: First year**

**Time: Theory - 15 hours**

**Practical – 30 hours**

**Course Description:**

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	3		Identify & define various concepts used in computer Identify application of computer in nursing	<b>Introduction:</b> • Concepts of Computers Hardware and software; trends and technology • Application of computers in nursing	• Lecture Discussion • Demonstration	• Short answers • Objective type
II	6	20	Describe and Use the Disk Operating System Demonstrate skill in the use of MS Office	<b>Introduction to disk-operating system:</b> • DOS Windows (all version) • Introduction to: MS-Word MS-Excel with Pictorial presentation MS-Access MS-Power point	• Lecture Discussion • Demonstration • Practice Session	• Short answer questions • Objective type • Practical Exam
III	2	3	Demonstrate skill in using multi- media Identify features of computer aided teaching and testing	<b>Multimedia; types &amp; uses</b> Computer aided teaching & testing.	• Lecture Discussion • Demonstration	• Short answers • Objective type • Practical Exam and Viva Voce
IV	1	3	Demonstrate use of internet and Email	• Use of Internet and e-mail	• Lecture Discussion • Demonstration • Practice Session	• Short answers • Objective type • Practical Exam and Viva Voce
V	2	2	Describe and use the statistical packages	<b>Statistical packages:</b> types and their features	• Lecture Discussion • Demonstration • Practice Session	• Short answer questions • Objective type • Practical Exam and Viva Voce

VI	1	2	Describe the use of Hospital Management System	<b>Hospital Management System:</b> Types and uses	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Objective type</li> <li>• Practical Exam and Viva Voce</li> </ul>
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### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	KusumSamant	Basic Computer Training for B.Sc Nursing	Vora Medicals
2.	Nagendra Reddy	Computer Education for B.Sc Nursing	

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
	Suhail Ahmed, Khazi Mohammed & Shahija Khan	Computer Education For Nurses	Frontline Publications

## **B.Sc NURSING 4 Years Course**

### **Second Year Syllabus:**

1. Sociology
2. Pharmacology
3. Pathology & Genetics
4. Medical-Surgical Nursing(Adult including Geriatrics)-I
5. Medical-Surgical Nursing(Adult including Geriatrics)-I practical
6. Community Health Nursing-I
7. Community Health Nursing-I Practical
8. Communication and Educational Technology

# SOCIOLOGY

**Placement: Second year**

**Theory- 80 Hours**

**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	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	1	State the importance of sociology in Nursing	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Definition of Sociology</li> <li>• Nature and Scope of the discipline</li> <li>• Importance and application of Sociology in Nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
II	1	Know the multi disciplinary nature of environment	<b>Multi disciplinary nature of environmental studies</b> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Scope and importance</li> <li>• Need for public awareness</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
III	5	Identify various natural resources and associated problems	<b>Natural resources : Renewable and non renewable resources</b> <b>Natural resources and associated problems</b> - <b>Forest resources:</b> use and over- exploitation, deforestation, timber extraction, mining, dams and their effects on forest and tribal people - <b>Water resources:</b> Use and over - utilization of surface and ground water ,floods, drought, conflicts over water, dams- benefits and problems. - <b>Mineral resources:</b> use and exploitation, environmental effect of extracting and using mineral use of resources. <b>Energy resources :</b>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Case study</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			<p>Growing energy needs, renewable and non renewable energy resources, use of alternate energy sources.</p> <p><b>Land resources :</b> Land as a resource, land degradation, man induced landslides, soil erosion and desertification</p> <p>- Role of an individual in conservation of natural resources.</p> <p>- Equitable use of resources for sustainable life styles.</p>		
IV	3	Describe the interrelationship of individual in society and community	<p><b>Individual &amp; Society</b></p> <ul style="list-style-type: none"> <li>• Society and Community</li> <li>• Nature of Society</li> <li>• Difference between Society and Community</li> <li>• Process of Socialization and individualization</li> <li>• Personal disorganization</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
V	3	Describe the influence of culture on health and disease	<p><b>Culture</b></p> <p>Nature of culture</p> <p>Evolution of culture</p> <p>Diversity and uniformity of culture</p> <p>Culture and socialization</p> <p>Transcultural society</p> <p>Influence on health and disease</p>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Panel discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
VI	6	Identify various social groups and their interactions	<p><b>Social groups and Processes</b></p> <ul style="list-style-type: none"> <li>• The meaning and classification of groups</li> <li>• Primary &amp; Secondary Group</li> <li>• In-group V/s. Out-group</li> <li>• Class, Tribe, Caste</li> <li>• Economic, Political, Religious groups,</li> <li>• Crowd, Public and Audience</li> <li>Interaction &amp; Social Processes</li> <li>• Co-operation, Competition &amp; Conflict</li> <li>• Accommodation,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			Assimilation & Isolation		
VII	15	Explain the growth of population in India and its impact on health	<b>Population</b> <ul style="list-style-type: none"> <li>• Society and population</li> <li>• Population distribution</li> </ul> <b>India-Demographic characteristics</b> <ul style="list-style-type: none"> <li>• Malthusian theory of Populations</li> <li>• Population explosion in India and its impact on health status</li> <li>• Environment and human health</li> <li>• Human right</li> <li>• Value education</li> <li>• Role of information technology in environment and human health</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Community Identification</li> <li>• Case studies</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Assessment of report on community identification</li> </ul>
VIII	5	Describe the institutions of family and marriage in India	<b>Family and Marriage</b> <ul style="list-style-type: none"> <li>• Family- Functions</li> <li>• Types-Joint, Nuclear,</li> <li>• Blended and extended family: Characteristics</li> <li>• The Modern Family – Changes , Problems-Dowry etc., welfare Services</li> <li>• Changes &amp; legislations on family and marriage in India - marriage acts</li> <li>• Marriage: Forms and functions of marriage,</li> <li>• Marriage and family problems in India</li> <li>• Family, marriage and their influence on health and health practices</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Family Case study</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Assessment of family case study</li> </ul>
IX	6	Describe the class and caste system and their influence on health and health practices	<b>Social Stratification</b> <ul style="list-style-type: none"> <li>• Meaning &amp; types of social stratification</li> <li>• The Indian Caste System- origin &amp; features</li> <li>• Features of Caste in India Today</li> <li>• Social Class system and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Community survey</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Assessment of report on community survey</li> </ul>

			<p>status</p> <ul style="list-style-type: none"> <li>• Social Mobility- Meaning &amp; Types</li> <li>• Race as a biological concept, criteria of racial classification</li> <li>• Salient features of Primary races- Racism</li> <li>• Influence of Class, Caste and Race on health and health practices</li> </ul>		
X	6	Describe the types of communities	<ul style="list-style-type: none"> <li>• <b>Types of Communities in India (Rural, Urban and Regional)</b></li> <li>• Features of village community &amp; Characteristics of Indian villages- 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 and health practices</li> <li>• Urban Community features</li> <li>" The growth of cities: Urbanisation and its impact on health and health practices</li> <li>• Major U ban problems- Urban Slums</li> <li>• Region: Problems and impact on Health</li> </ul>	<ul style="list-style-type: none"> <li>• Visits to rural and urban community</li> <li>• Community survey</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of report o n community survey</li> </ul>
XI	4	Explain the process of Social Change	<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: cultural change, Cultural lag.</li> <li>• Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional Role of nurse-Change agents</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
XII	4	Explain the	<ul style="list-style-type: none"> <li>• <b>Social organization</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>



		process of Social Change	<b>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>	Discussion <ul style="list-style-type: none"> <li>• Observation visits</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Assessment of visit reports</li> </ul>
XIII	2	Explain the nature and process of social control	<b>Social Control</b> <ul style="list-style-type: none"> <li>• Nature and process of social control</li> <li>• Political, Legal, Religious, Educational, Economic, Industrial and Technological systems, Norms &amp; Values- Folkways &amp; Mores Customs, Laws and Fashion Role of Nurse.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Community survey</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Assessment of report on community survey.</li> </ul>
XIV	13	Describe the role of the nurse in dealing with social problems in India	<b>Social Problems</b> <ul style="list-style-type: none"> <li>• Social disorganization</li> <li>• Control &amp; planning: poverty, housing, illiteracy, food</li> <li>• 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.</li> <li>• Social Welfare programmes in India Role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Institutional visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short Answers</li> <li>• Assessment of visit reports</li> </ul>
XV	6	Describe the social issues and interrelationship with environment	<b>Social issues and the environment</b> <ul style="list-style-type: none"> <li>• From unsustainable to sustainable development</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Case study</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			<ul style="list-style-type: none"> <li>• Urban problems related to energy</li> <li>• Resettlement and rehabilitation of people, its problems and concerns.</li> <li>• Environmental ethics: issues and possible solutions</li> <li>• Consumerism and waste products</li> <li>• Issues involved in enforcement of environmental legislation</li> <li>• Public awareness</li> </ul>		
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### Books list

#### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Vidya Bhushan & Sachdev	An introduction to sociology	Emmess Publishers
2.	K.P. Neeraja	Texbook of sociology for nurses	
3.	Jan Clement	Sociological implications in Nursing	Frontline

#### Reference Books:

S.No	Prescribed Author	Title	Publisher
1.	R.N. Sharma	Principles of Sociology	Frontline
2.	Prof. R.S. Caroline	Sociology for nurses	Frontline

# Pharmacology

**Placement: Second year**

**Theory- 45 Hours**

**Course Description:**

The course is designed to enable the students to acquire understanding of Pharmacodynamics, Pharmacokinetics and principles of therapeutics and nursing implications.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration	<b>Introduction to pharmacology</b> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Sources</li> <li>• Terminology used</li> <li>• Types: Classification</li> <li>• Pharmacodynamics: Actions, therapeutic,</li> <li>• Adverse, toxic</li> <li>• Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion</li> <li>• Review: Routes and principles of administration of drugs</li> <li>• Indian pharmacopoeia: Legal issues</li> <li>• Rational use of drugs</li> <li>• Principles of therapeutics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
II	6	Explain chemotherapy of specific infections and infestations and nurse's responsibilities	<ul style="list-style-type: none"> <li>• <b>Chemotherapy</b></li> <li>• Pharmacology of commonly used; Penicillin, Cephalosporins. Aminoglycosides Macrolide &amp; Broad Spectrum Antibiotics, Sulfonamides Quinolones, Antiamoebic, Antimalarials, Anthelmintics Antiscabies agents Antiviral &amp; anti-fungal agents. Antitubercular drugs, Anti leprosy drugs Anticancer drugs,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Drug Study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			Immuno-suppressants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse		
III	2	Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities	<ul style="list-style-type: none"> <li>• <b>Pharmacology of commonly used antiseptics, disinfectants and insecticides</b></li> <li>• Antiseptics; Composition, action, dosage, route, indications, contraindications, drug interactions, side effects adverse effects, toxicity and role of nurse</li> <li>• Disinfectants</li> <li>• Insecticides</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
IV	2	Describe Drugs acting on Gastro Intestinal system and nurse's responsibilities	<ul style="list-style-type: none"> <li>• <b>Drugs acting on G.I. system</b></li> <li>• Pharmacology of commonly used- Antiemetics, Emetics Purgatives, Antacids Cholinergic Anticholinergics Fluid and electrolyte therapy, Anti diarrhoeals Histamines Composition, action, dosage, route, indications, contra indications, drug interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study/ presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
V	2	Describe Drugs used on Respiratory Systems and nurse's responsibilities	<ul style="list-style-type: none"> <li>• <b>Drugs used on Respiratory Systems</b></li> <li>• Pharmacology of commonly used- Antiasthmatics, Mucolytics Decongestants, Expectorants Antitussives Bronchodilators Broncho constrictors Antihistamines</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>

			Composition, action, dosage, route, indications, contra indications, drug interactions, side effects, adverse effects, toxicity and role of nurse		
VI	2	Describe Drugs used on Urinary System and nurse's responsibilities	<b>Drugs used on Urinary System</b> <ul style="list-style-type: none"> <li>• Pharmacology of commonly used- Diuretics and antidiuretics Urinary antiseptics Cholinergic and anticholinergics Acidifiers and alkalanizers</li> </ul> Composition, action, dosage, route, indications, contraindications, drug inter actions, side effects, adverse effects, toxicity and role of nurse	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
VII	4	Describe Drugs used in deaddiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immune suppression and nurse's responsibilities	<b>Miscellaneous</b> <ul style="list-style-type: none"> <li>• Drugs used in de-addiction</li> <li>• Drugs used in CPR and emergency</li> <li>• Vitamins and minerals</li> <li>• Immunosuppressant</li> <li>• Antidotes</li> <li>• Antivenom</li> <li>• Vaccines and sera</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
VIII	1	Describe Drugs used on skin and mucous membranes and nurse's responsibilities	<b>Drugs used on skin and mucous membranes</b> <ul style="list-style-type: none"> <li>• Topical applications for skin, eye, ear, nose and buccal cavity, Antipruritics</li> </ul> Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	<ul style="list-style-type: none"> <li>• Lecture Discussion,</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
IX	8	Describe Drugs used on Nervous System and nurses responsibilities	<b>Drugs acting on Nervous system</b> <ul style="list-style-type: none"> <li>• Basic &amp; applied pharmacology of commonly used:</li> <li>• Analgesics and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion,</li> <li>• Drug study / Presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<p>Anaesthetics</p> <ul style="list-style-type: none"> <li>- Analgesics, Non steroidal antiinflammatory (NSAID) drugs</li> <li>-Antipyretics</li> <li>-Hypnotics and Sedatives</li> <li>- Opioids, Non-Opioids</li> <li>Tranquilizers</li> <li>-General &amp; local anesthetics</li> <li>-Gases: oxygen, nitrousoxide, carbon dioxide</li> <li>• Cholinergic and anti-cholinergic: <ul style="list-style-type: none"> <li>-Musclerelaxants</li> <li>-Major tranquilizers</li> <li>-Anti-psychotics</li> <li>-Antidepressants</li> <li>-Anticonvulsants.</li> <li>-Adrenergics</li> <li>-Noradregenics</li> <li>-Mood stabilizers</li> <li>-Acetylcholine</li> <li>-Stimulants</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	Describe Drugs used on Cardio vascular System and nurse's responsibilities	<p><b>Cardiovascular drugs</b></p> <ul style="list-style-type: none"> <li>• Haematinics</li> <li>• Cardiotonics,</li> <li>• Anti anginals</li> <li>• Anti-hypertensives &amp;</li> <li>• Vasodilators</li> <li>• Anti-arrhythmics</li> <li>• Plasma expanders</li> <li>• Coagulants &amp; anticoagulants</li> <li>• Antiplatelets &amp; thrombolytics</li> <li>• Hypolipidemics</li> </ul> <p>Composition, action, dosage, route, indications,</p>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Drug study</li> <li>• Presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>

			contraindications, drug interactions, side effects, adverse effects, toxicity role of nurse		
XI	4	Describe drugs used for hormonal disorders and supplementation contraception and medical termination of pregnancy and nurse's responsibilities	<ul style="list-style-type: none"> <li>• <b>Drugs used for hormonal Disorders and supplementation, contraception and medical termination of pregnancy</b></li> <li>• Insulins &amp; Oral hypoglycemics</li> <li>• Thyroid supplements and suppressants</li> <li>• Steroids, Anabolics</li> <li>• Uterine stimulants and relaxants</li> <li>• Oral contraceptives</li> <li>• Other estrogen-progestrone preparations</li> <li>• Corticotrophine &amp; Gonadotropines</li> <li>• Adrenaline.</li> <li>• Prostaglandins</li> <li>• Calcitonins</li> <li>• Calcium salts</li> <li>• Calcium regulators</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 Discussion</li> <li>• Drug study / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
XII	6	Demonstrate awareness of the common drugs used in alternative system of medicine	<b>Introduction to Drugs used in alternative systems of medicine:</b> Ayurveda, Homeopathy, Unani and Siddha etc	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Observational Visits</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

### Books list

#### Prescribed Books:

<b>S.No</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Satoskar & bhandarkar	Pharmacology and Pharmacotherapeutics	Popular prakasham

#### Reference Books:

<b>S.No</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Jeane schera C.	Lippin cott,s Nurses Drug manual	J.B.Lippincott
2.	Shobhana mathur	Principles of pharmacology for B.Sc(N)	frontline



# PATHOLOGY AND GENETICS

## PATHOLOGY

**Placement: Second year**  
**Section A- Pathology**

**Theory — 30 hours**

**Course Description:**

This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	3		Define the common terms used in pathology. Appreciate the deviations from normal to abnormal structure and functions of the body system.	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Importance of the study of pathology               <ul style="list-style-type: none"> <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               <ul style="list-style-type: none"> <li>-Normal and Cancer cell</li> <li>-Benign and Malignant growths</li> <li>-In situ carcinoma</li> </ul> </li> <li>• Disturbances of fluid and electrolyte imbalance.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Explain using Charts</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer type</li> <li>• Objective type</li> </ul>

II	10	5	<p>Explain Pathological changes in disease conditions of various systems</p>	<ul style="list-style-type: none"> <li>• <b>Special pathology</b></li> <li>• Pathological changes in disease conditions of various systems:</li> <li>• <b>Respiratory tract</b> <ul style="list-style-type: none"> <li>-Tuberculosis, Bronchitis, Pleural effusion and pneumonia,</li> <li>-Lung abscess, emphysema, bronchiectasis, Bronchial asthma, Chronic obstructive Pulmonary disease &amp; tumours</li> </ul> </li> <li>• Cardiovascular system <ul style="list-style-type: none"> <li>-Pericardial effusion</li> <li>-Rheumatic heart disease</li> <li>-Infective endocarditis, atherosclerosis, Ischemia, infarction &amp; aneurysm</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, <ul style="list-style-type: none"> <li>- Gastric &amp; intestinal, Liver, Gall bladder &amp; Pancreas</li> </ul> </li> <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> <li>• Male genital systems <ul style="list-style-type: none"> <li>-Cryptorchidism testicular atrophy</li> <li>-Prostatic hyperplasia, Carcinoma Penis &amp;</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Explain using Charts, slides, specimen, X-rays and Scans</li> <li>• Visit to Pathology lab, endoscopy unit and OT</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer type</li> <li>• Objective</li> </ul>
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				prostate • Female genital system. -Fibroids -Carcinoma cervix and Endometri -Vesicular mole, choriocarcinoma -Ectopic gestation -Ovarian cyst & tumours • Cancer Breast • Central Nervous system -Hydrocephalus, Meningitis, encephalitis, - Vascular disorders thrombosis, embolism -Stroke, paraplegia, Quadriplegia - Tumours, meningiomas gliomas • Metastatic tumour - skeletal system -Bone healing, osteoporosis, osteoyelitis Arthritis & tumours		
III	4	3	Describe various laboratory tests in assessment and monitoring of disease conditions	<b>Clinical pathology</b> • Various blood and bone marrow tests in assessment and monitoring of disease conditions -Hemoglobin . -RBC. White cell & platelet counts • Bleeding time, clotting time and prothrombine time - Blood grouping and cross matching -Blood chemistry -Blood culture -Serological and immunological tests -Other blood tests -Examination of Bone marrow	• Lecture Discussion Demonstration • Visit to Clinical Pathology & Biochemistry lab and Blood bank	• Short answers • Objective type

				-Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values		
IV	2	1	Describe the laboratory tests for examination of body cavity fluids, transudates and exudates	<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 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</li> <li>• Discussion</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
V	1	1	Describe the laboratory tests for examination of Urine and faeces	<p><b>Urine and faeces</b></p> <ul style="list-style-type: none"> <li>• Urine- Physical characteristics <ul style="list-style-type: none"> <li>-Analysis, -Culture and sensitivity</li> </ul> </li> <li>• Faeces - Characteristics <ul style="list-style-type: none"> <li>-Stool examination: occult blood, ova, parasite and cyst, reducing substances etc.</li> </ul> </li> <li>• Methods of collection for various tests, inference of normal values</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

# Genetics

Placement: Second Year

Theory — 15 hours

## Section- B Genetics

### Course Description:

This course is designed to enable students to acquire understanding of Genetics, its role in causation and management of defects and diseases

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	Explain nature, principles and perspectives of heredity	<b>Introduction:</b> <ul style="list-style-type: none"> <li>• Practical application of genetics in Nursing</li> <li>• Impact of genetic 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, Patterns of inheritance, Mendalian theory of inheritance, Multiple allots and blood groups, Sex linked inheritance</li> <li>• Mechanism of inheritance</li> <li>• Errors in transmission (Mutation)</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>
II	3	Explain Maternal, prenatal and genetic influences on development of defects and diseases	<b>Maternal, prenatal and genetic influences on development of defects and diseases</b> <ul style="list-style-type: none"> <li>• Conditions affecting the mother: genetic infections</li> <li>• Consanguinity, atopy</li> <li>• Prenatal nutrition and food allergies.</li> <li>• Maternal Age</li> <li>• Maternal drug therapy</li> <li>• Prenatal testing and diagnosis</li> <li>• Effect of Radiation, drugs and chemicals</li> <li>• Infertility</li> <li>• Spontaneous abortion</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Neural Tube Defects and the role of folic acid in lowering the risks</li> <li>• Downs syndrome (Trisomy 21)</li> </ul>		
III	2	Explain the screening methods for genetic defects and diseases in neonates and children	<b>Genetic testing in the neonates and children</b> <ul style="list-style-type: none"> <li>• <b>Screening for</b> <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>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short Answers</li> <li>• Objective type</li> </ul>
IV	2	Identify genetic disorders in adolescents and adults	<b>Genetic conditions of adolescents and adults</b> <ul style="list-style-type: none"> <li>• Cancer genetics - Familial Cancer</li> <li>• Inborn errors of metabolism</li> <li>• Blood group alleles and haematological disorder</li> <li>• Genetic haemochromatosis</li> <li>• Huntington's disease</li> <li>• Mental illness</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Explain using charts, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>
V	5	Describe the role of nurse in genetic services and counselling	<b>Services related to Genetics</b> <ul style="list-style-type: none"> <li>• Genetic testing</li> <li>• Human genome project</li> <li>• Gene therapy</li> <li>• The Eugenics movement</li> <li>• Genetic Counselling</li> <li>• Legal and Ethical issues, Role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>

### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Triveni Bhopal	Text book of pathology for B.Sc (Nursing)	Frontline
2.	Mohd Rizwan & Ayesha Ali	Genetics Nursing Perspectives	Frontline
3.	H.K. Jain	Genetics Principles, Concept and implications	Oxford & I.B.H

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1.	Robbins & Cotran	Pathogenic basis of Diseases	W.B. Saunders
2.	Boyd	Pathology	
3.	Govan	Illustrated Pathology	
4.	Purnima S. Rao	Pathology and Genetics	
5.	Dalela & Varma	A Text book of Genetics	Jaiprakashnath & Co

## MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I

**Placement : Second year**

**Theory – 210 hours**

**Practical – 720 hours**

### 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	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	15	<p>Appreciate the trends in medical and surgical nursing.</p> <p>Describe the role of a nurse in caring for adult patient in hospital and community.</p> <p>Describe the concepts of Medical Surgical asepsis</p>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Introduction to medical surgical nursing               <ul style="list-style-type: none"> <li>- Evolution and trends of medical and surgical nursing</li> </ul> </li> <li>• Review of Concepts of Health and illness, Disease-concepts, causations, classification- International Classification of Diseases (ICD- 10 or later version), Acute illness, Chronic illness &amp; Terminal illness, stages of illness</li> <li>• Review of concepts of comprehensive nursing care in medical surgical conditions based on 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 unit</li> <li>-Intensive care unit.</li> <li>-Home and community settings</li> </ul> </li> <li>• Introduction to medical surgical asepsis               <ul style="list-style-type: none"> <li>-Inflammation and Infection -Immunity</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised clinical practice</li> </ul>	<p>Short answers</p> <p>Objective Type</p> <p>Assessment of skills with check list</p>

			<ul style="list-style-type: none"> <li>-Wound healing</li> <li>• Care of Surgical Patient</li> <li>-Pre operative, -Intra operative , -Post operative</li> </ul>		
II	15	Describe the common signs, symptoms, problems and their Specific nursing interventions	<p><b>Common signs and symptoms and management</b></p> <ul style="list-style-type: none"> <li>• Fluid and electrolyte imbalance.</li> <li>• Vomiting</li> <li>• Dyspnea and cough,</li> <li>• Respiratory obstruction</li> <li>• Fever</li> <li>• Shock</li> <li>• Unconsciousness,</li> <li>• Syncope Pain</li> <li>• Incontinence</li> <li>• Edema</li> <li>• Age related problems-geriatric</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Seminar</li> <li>• Case discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short Answers</li> <li>• Objective Type</li> </ul>
III	20	Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems	<p><b>Nursing management of patients (adults including elderly) 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, patho-physiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of adults including elderly with -</li> <li>-Upper Respiratory fact infection</li> <li>-Bronchitis</li> <li>-Asthma</li> <li>-Emphysema</li> <li>-Empyema</li> <li>-Atelectasis</li> <li>-Chronic Obstructive Pulmonary Diseases (COPD)</li> <li>-Bronchiectasis</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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, book / presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>



			<ul style="list-style-type: none"> <li>-Pneumonia</li> <li>-Pulmonary tuberculosis</li> <li>-Lung abscess</li> <li>-Pleural effusion</li> <li>-Cysts and Tumours</li> <li>-Chest injuries</li> <li>-Respiratory arrest and insufficiency</li> <li>-Pulmonary embolism</li> <li>special therapies,</li> <li>alternative therapies</li> <li>Nursing procedures</li> <li>Drugs used in treatment of respiratory disorders</li> </ul>		
IV	30	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems	<p><b>Nursing management of patient (adults including elderly) 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 Etiology, Patho-physiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management</li> <li>• Disorders of <ul style="list-style-type: none"> <li>-Oral cavity- lips, gums, and teeth</li> <li>-Oesophagus - inflammation, stricture, obstruction, bleeding and tumours</li> <li>-Stomach and duodenum, hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis, Small intestinal disorders inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation</li> <li>-Large intestinal disorders- Colitis, inflammation and</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment Of skills with check list</li> <li>• Assessment Of Patient management problem</li> </ul>

			<p>infection, obstruction, tumour and lump</p> <ul style="list-style-type: none"> <li>-Hernias</li> <li>-Appendix-inflammation, mass, abscess, rupture</li> <li>-Anal &amp; Rectum; hemorrhoids, fissures, Fistulas</li> <li>-Peritonitis/acute abdomen</li> <li>- Pancreas; inflammation, cyst, abscess and tumours</li> <li>-Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours</li> <li>-Gall Bladder; inflammation, obstruction, stones and tumours</li> </ul> <p>Special therapies, alternative therapies</p> <p>Nursing procedures, Drugs used in treatment of disorders of digestive system</p>		
V	30	<p>Describe the etiology, patho Physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardiovascular problems</p> <p>Describes the vascular conditions and its nursing management</p>	<p><b>Nursing management of patient (adults including elderly) with blood and cardio vascular problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of blood and cardio vascular system,</li> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of- Vascular system</li> <li>-Hypertension, Hypotension</li> <li>-Arteriosclerosis</li> <li>-Raynaud's disease</li> <li>-Aneurism and Peripheral</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs Models, films, slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions /</li> <li>• Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book/ presentation</li> <li>• Visit to blood bank</li> <li>• Participation in blood donation camps</li> <li>• Counseling</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<p>vascular disorders</p> <p>Heart</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</li> </ul> <p>Myocarditis</p> <ul style="list-style-type: none"> <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 emergencies and arrest</li> <li>• Cardio Pulmonary Resuscitation (CPR)</li> <li>• Blood <ul style="list-style-type: none"> <li>-Anaemias</li> <li>-Polycythemia</li> <li>-Bleeding disorders; clotting factor defects and platelets defects</li> <li>-Thalassemia</li> <li>-Leukaemias</li> <li>-Leukopenias and agranulocytosis</li> <li>-Lymphomas</li> <li>-Myelomas</li> </ul> </li> <li>• Special therapies <ul style="list-style-type: none"> <li>-Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reactions:, records for blood transfusion.</li> </ul> </li> <li>• Management and counseling of blood donors, phlebotomy</li> </ul>	
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			<p>procedure, and post donation management.          Blood bank functioning and hospital transfusion committee. Bio- safety and waste management in relation to blood transfusion</p> <ul style="list-style-type: none"> <li>-Role of a nurse in Organ donation, retrieval and banking</li> <li>- Alternative therapies</li> <li>- Nursing procedures</li> <li>- Drugs used in treatment of blood and cardio vascular disorders</li> </ul>		
VI	10	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults include elderly) with disorders of genito-urinary system	<p><b>Nursing management of patient (adults including elderly) 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 manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of-             <ul style="list-style-type: none"> <li>• Nephritis</li> <li>• Nephrotic syndrome</li> <li>• Nephrosis</li> <li>• Renal calculus</li> <li>• Tumours</li> <li>• Acute renal failure</li> <li>• Chronic renal failure</li> <li>• End stage renal disease</li> <li>• Dialysis, renal transplant</li> <li>• Congenital disorders, urinary infections</li> <li>• Benign prostate hypertrophy.</li> <li>• Disorders of ureter, urinary bladder and urethra inflammation, infection,</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			stricture, obstruction, tumour, prostrate - Special therapies, alternative Therapies - Nursing procedures - Drugs used in treatment of genitourinary disorders		
VII	5	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive system	<b>Nursing Management of disorders of male (adult including elderly) reproductive system</b> <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 manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of disorders of male reproductive system</li> <li>• Congenital malformations            cryptorchidism, hypospadias, epispadias Infections</li> <li>• Testis and adjacent structures, Penis</li> <li>• Prostate: inflammation, infection, hypertrophy, tumour</li> <li>• Sexual Dysfunction</li> <li>• Infertility</li> <li>• Contraception</li> <li>• Breast; gynecomastia, tumour</li> <li>• Climacteric changes, Special therapies, alternative therapies</li> <li>- Nursing procedures</li> <li>- Drugs used in treatment of disorders of male reproductive system</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using</li> <li>• 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

VIII	10	Describe the etiology, pathophysiology, Clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system	<p><b>Nursing management of patient (adults including elderly) 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 manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of- <ul style="list-style-type: none"> <li>-Disorders of Thyroid and Parathyroid</li> <li>-Diabetes mellitus</li> <li>-Diabetes insipidus</li> <li>-Adrenal tumour</li> <li>-Pituitary disorders.</li> </ul> </li> <li>Special therapies, alternative therapies</li> <li>- Nursing procedures</li> <li>Drugs used in treatment of disorders of endocrine system</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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> </ul>	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management problem</p>
IX	10	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Skin	<p><b>Nursing management of patient (adults including elderly) 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 manifestations, diagnosis, treatment modalities and medical, surgical, dietetics &amp; nursing management of disorders of skin and its appendages - <ul style="list-style-type: none"> <li>-Lesions and abrasions</li> <li>-Infection and</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<p>infestations; Dermatitis  -Dermatoses; infectious and Non infectious  "inflammatory dermatoses"  -Acne Vulgaris  -Allergies and Eczema  -Psoriasis  -Malignant melanoma  -Alopecia  - Special therapies, alternative therapies  - Nursing procedures  Drugs used in treatment of disorders of Integumentary system</p>		
X	10	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system	<p><b>Nursing management of patient (adults including elderly) with musculoskeletal problems</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of musculoskeletal system,</li> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment, modalities and medical, surgical, dietetics &amp; nursing management of -</li> </ul> <p>-Disorders of:  -Muscles, Ligaments and Joints - inflammation, infection, trauma  -Bones-inflammation, infection, dislocation, fracture, tumour and trauma  -Osteomalacia and osteoporosis  -Arthritis  -Congenital deformities  -Spinal column- defects and deformities, Tumor, Prolapsed inter vertebral disc, pott's spine</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<ul style="list-style-type: none"> <li>-Paget's disease</li> <li>• Amputation</li> <li>• Prosthesis</li> <li>• Transplant &amp; replacement surgeries</li> <li>• Rehabilitation.</li> </ul> <p>Special therapies, alternative therapies</p> <p>Nursing procedures Drugs used in treatment of disorders of musculo skeletal system.</p>		
XI	10	Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Immunological system	<p><b>Nursing management of patient (adults including elderly) 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 manifestations, diagnosis. treatment modalities and medical, surgical, dietetics &amp; nursing management of-</li> <li>• Immunodeficiency disorder.</li> <li>• Primary immuno deficiency.</li> <li>• Phagocytic dysfunction</li> <li>• B-cell and T-cell deficiencies</li> <li>• Secondary immunodeficiencies</li> <li>• Acquired immunodeficiency syndrome (AIDS)</li> <li>• Incidence of HIV &amp; AIDS</li> <li>• Epidemiology</li> <li>• Transmission-Prevention of Transmission</li> <li>• Standard Safety precautions</li> <li>• Role of Nurse; counseling</li> <li>• Health education and home care consideration.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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>• Orientation visit to Hospital Control system</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>



			<ul style="list-style-type: none"> <li>• National AIDS Control Program - NACO, various national and international agencies</li> <li>• Infection control program</li> </ul> <p>Rehabilitation. Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of immunological system.</p>		
XII	20	Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with Communicable Diseases.	<p><b>Nursing management of patient (adults including elderly) with Communicable Diseases</b></p> <ul style="list-style-type: none"> <li>• Overview of infectious disease, the infectious process</li> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietics. Control and eradication of common Communicable Diseases</li> <li>- Tuberculosis</li> <li>-diarrhoeal diseases</li> <li>-hepatitis A - E</li> <li>-herpes</li> <li>-chickenpox</li> <li>-smallpox</li> <li>-typhoid</li> <li>-meningitis</li> <li>-gas gangrene</li> <li>-leprosy.</li> <li>-Dengue</li> <li>-Plague</li> <li>-Malaria</li> <li>-Diphtheria</li> <li>-Pertussis</li> <li>-Poliomyelitis</li> <li>-Measles</li> <li>-Mumps</li> <li>-Influenza</li> <li>-Tetanus</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient Management Problem</li> </ul>

			<ul style="list-style-type: none"> <li>-Yellow fever</li> <li>-Filariasis</li> <li>-HIV, AIDS</li> </ul> Reproductive Tract Infections Special infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals Special therapies, alternative therapies Nursing procedures, Drugs used in treatment of Communicable diseases		
XIII	25	Describe the Organization and physical set up of operation theatre Identify the Various instruments and equipments used for common surgical procedures Describe the infection control measures in the Operation theatre Describe the role of the nurse in the Post Operative nursing care	<b>Peri operative nursing:</b> <ul style="list-style-type: none"> <li>• Organization and Physical set up of the Operation Theatre (OT): <ul style="list-style-type: none"> <li>-Classifications</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 Health and operative room asepsis.</li> <li>-Instruments,</li> <li>-Sutures and suture materials</li> <li>-Equipments</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</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs Models, films, slides</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised clinical practice</li> <li>• Drug book / presentation</li> </ul>	<ul style="list-style-type: none"> <li>•Essay type</li> <li>•Short answers</li> <li>•Objective type</li> <li>• Assessment of skills with check list</li> </ul>

			therapeutic environment in O.T. • Standard Safety measures -Infection control; fumigation, disinfection and sterilization -Biomedical waste management -Prevention of accidents and hazards in O.T • Anaesthesia -Types, -Methods of administration -Effects and Stages -Equipments, -Drugs • Cardio Pulmonary Resuscitation (CPR) • Pain management techniques • Legal Aspects		
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### Book list

#### Recommended Books:

S.No	Prescribed Author	Title	Publisher
1.	Joyse M. Black & Hawks Luckman & Sorensen's	Medical Surgical Nursing 8ed	W.B. Saunders
2.	Smeltzer, Brunner & Suddharth	Textbook of Medical Surgical Nursing	Lippincott

#### References Book:

S.No	Prescribed Author	Title	Publisher
1.	Monahan et al., Phipp's	Medical Surgical Nursing health and illness perspectives 8th ed	
2.	Brunner & Suddarth's Lip	Lippincott Manual of Nursing Practice	Mosby
3.	Lewis	Medical Surgical Nursing	Elsevier
4.	Berry & Khan's	Operating Room Technique	Mosby
5.	Nanjunde S.N. Gowda & Jyothi N Gowda	Perioperative Nursing Manual	J.N. Publication
6.	Bojar, Robert M	Manual of perioperative care in Cardiac surgery	Blackwell
7.	Moher et al	Orthopedic Nursing	Saunders
8.	Ebenzier	Textbook of Orthopedics	Jaypee Brothers
9.	Mohd Maqbool	Text book of Ear, Nose and Throat	
10.	Geeta mary	Basic Notes on ENT	
11.	Likhanger A.G	Diseases of ear, Nose and Throat	

12.	U.N. Panda	Hand book of Ophthalmology & Rhinoryngology	A.I.T.B.S
13.	Synday Lerman	Basic ophthalmology	M.C. Grawhill
14.	Holl & Colman's Throat	Diseases of ear, Nose and Church Living stone	
15.	Sihota	Pearson's diseases of the eye	
16.	Robert Jiffany	Cancer Nursing	
17.	Bouchard Rosemary	Cancer Nursing	Raven press
18.	Carol Reed Ash & Jenkins J.F	Enhancing the role of cancer nursing	
19.	Palmer	Infection control A policy & Procedures manual	W.B. Saunders
20.	Esther Hughes	Dermatology Nursing	
21.	Alexander G Reaves	Disorders of the Nervous system publishers	Year Book Medical
22.	Adams	Principles of Neurology	
23.	Patricia	Nurses Guide to Neurological patient care	
24.	Purchase	Neurological & Neuro surgical Nursing 2nd Ed	
25.	Ruby Elien B.	Advanced neurological and neuro surgical nursing	C.V Mosby
26.	Lindsey Kenneth W & Lan Bone	Neurology and Neurosurgery illustrated	Church Livingstone
27.	Barker	Neuro science Nursing	
28.	Sandersons K.G.	The cardiac patient	W.B. Saunders
29.	Sister nancy	Cardiac critical care and emergency room care	Little brown
30.	Crash B	Acute myocardial infarction	Elsevier
31.	Fritz Bonmgartner	Cardiothoracic surgery	Chapman-Hall
32.	Dwevedi Premalatha	Communicable diseases	
33.	Bowwer & Plant	Communicable diseases & Textbook of Nurses	
34.	Gienda Esmand	Respiratory Nursing	
35.	Barker	Practical Epidemiology	Church hill
36.	Ansari et al	A color atlas of AIDS in tropics	
37.	Pramod John R	Text book of Oral Medicine	J.P Brothers

## Medical Surgical Nursing (Adult including Geriatrics) - I Practical

Placement: Second year

Time : 720 hours

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Methods
General Medical Ward (Respiratory, GI, Endocrine, Renal, Hematology)	6	Provide nursing care to adult patients with medical disorders Counsel & educate patients and families	<ul style="list-style-type: none"> <li>• Assessment of the Patient</li> <li>-Taking history</li> <li>-Perform general and specific physical examination.</li> <li>- Identify alterations and deviations</li> <li>• Practice medical surgical asepsis- Standard safety measures</li> <li>• Administer medications Oral, IV, IM, Subcutaneous</li> <li>• IV therapy</li> <li>-IV canulation</li> <li>-Maintenance and monitoring</li> <li>• Oxygen therapy by different methods</li> <li>• Nebulization</li> <li>• Chest physiotherapy</li> <li>• Naso gastric feeding</li> <li>• Assist in common diagnostic procedures</li> <li>• Perform, Assist in therapeutic procedures</li> <li>• Blood and component therapy</li> <li>• Throat Suctioning</li> <li>• Collect specimens for common investigations.</li> <li>• Maintain</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 3-4 assigned patients</li> <li>• Nursing care plan-2</li> <li>• Nursing case Study / presentation-I</li> <li>• Drug presentation- I</li> <li>• Maintain drugbook</li> <li>• Maintain Practical record 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> </ul>

			<p>elimination</p> <ul style="list-style-type: none"> <li>- Catheterization</li> <li>- Bowel wash</li> <li>- Enema</li> <li>- Urinary drainage</li> <li>• Maintain Intake, output &amp; documentation</li> <li>• Counsel and teach related to specific disease conditions</li> </ul>		
General Surgical Ward (GI, Urinary, CTVS)	6	<p>Provide pre and post operative nursing care to adult patients with surgical disorders</p> <p>Counsel and educate patients and families</p>	<ul style="list-style-type: none"> <li>• Practice medical surgical asepsis- Standard safety measures</li> <li>• Pre operative preparation of patients</li> <li>• Post operative care - Receiving Pt, assessment, monitoring, care</li> <li>• Care of wounds and drainage</li> <li>• Suture removal</li> <li>• Ambulation and exercise</li> <li>• Naso gastric aspiration</li> <li>• Care of chest drainage</li> <li>• Ostomy care</li> <li>- Gastrostomy</li> <li>- Colostomy</li> <li>- Enterostomy</li> <li>• Blood and component therapy</li> <li>• Practice universal precautions</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 3-4 assigned patients</li> <li>• Nursing care plan - 2</li> <li>• Nursing case study/ presentation - I</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 activity record</li> </ul>
Cardiology ward	2	<p>Provide nursing care to patients with cardiac disorders</p> <p>Counsel and educate patients and families</p>	<ul style="list-style-type: none"> <li>• Physical examination of the cardio vascular system</li> <li>• Recording and interpreting ECG</li> <li>• Monitoring of patients</li> <li>• Preparation and</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 2-3 assigned patients</li> <li>• Nursing care plan – I</li> <li>• Nursing case study/</li> <li>• Presentation</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/</li> </ul>

			<p>assisting in non-invasive and invasive diagnostic procedures.</p> <ul style="list-style-type: none"> <li>• Administer cardiac drugs</li> <li>• Cardio pulmonary Resuscitation</li> <li>• Teach patients and families</li> <li>• Practice medical and surgical asepsis, Standard safety measures</li> </ul>	<p>Healthtalk - I</p> <ul style="list-style-type: none"> <li>• Maintain drug book</li> </ul>	<ul style="list-style-type: none"> <li>• Presentation health talk</li> <li>• Completion activity record</li> </ul>
<p>Skin &amp; Communicable diseases Ward</p>	1	<p>Identify skin problems Provide nursing care to patients with Skin disorders &amp; Communicable Diseases Counsel and educate patients and families</p>	<ul style="list-style-type: none"> <li>• Assessment of patients with skin disorders, Assist in diagnostic and therapeutic procedures</li> <li>• Administer topical medication</li> <li>• Practice medical surgical asepsis - Standard safety measures</li> <li>• Use of personal protective equipment (PPE)</li> <li>• Give Medicated baths</li> <li>• Counseling HIV positive patients</li> <li>• Teach prevention of infectious diseases.</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 health talk/ Counsel session</li> <li>- Completion activity record</li> </ul>
<p>Orthopedic ward</p>	2	<p>Provide nursing care to patients with musculo skeletal disorders Counsel and educate patients and families</p>	<ul style="list-style-type: none"> <li>• Assessment of orthopaedic patients</li> <li>• Assist in application of plaster cast and removal of cast</li> <li>• Apply skin traction- buck's Extension traction.</li> <li>• Assist in application and removal of</li> </ul>	<ul style="list-style-type: none"> <li>• Plan and give care to 2-3 assigned patients</li> <li>• Nursing care plan-I</li> <li>• 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 and Nursing case Study / presentation</li> <li>Completion activity record</li> </ul>

			prosthesis • Physiotherapy- Range of motion exercises (ROM), muscle strengthening exercises • Crutch maneuvering technique. • Activities of daily living • Ambulation • Teach and counsel patients and families		
Operation Theatre	6	Identify instruments used in common operations Participate in Infection control practice in the Operation Theatre Set-up of the table/ trolleys for common operative procedures Assist in giving anesthesia Assist in the operative procedures Provide post Operative nursing care	Scrubbing, gowning, gloving Identify instruments, suturing materials for common operations Disinfection, Carbolization, fumigation Preparation of instrument sets for common operations Sterilization of sharps and other instruments Prepare the OT table depending upon the operation Positioning and monitoring of patients Endotracheal intubation Assisting in minor and major operations. Handling specimens Disposal of waste as per the guidelines	• Assist as a circulatory nurse in • Major cases -10 • Minor cases-5 • Assist as a scrub nurse in Major cases-10 • Minor cases-5 • Maintain drug book	• Assess performance with rating scale • Completion activity record



**Internship**

**Time : 260 hours (9 weeks)**

<b>Areas</b>	<b>Duration (in weks)</b>	<b>Objectives</b>	<b>Skills</b>	<b>Assignments</b>	<b>Assessment methods</b>
ICU, CCU, CARD IAC OT.	2	<p>To gain proficiency in ICU nursing</p> <ul style="list-style-type: none"> <li>- Develop advance skill in special procedures used in critical care unit.</li> <li>- Identify potential problems and provide accordingly.</li> <li>- Skill in setting and handling ventilator</li> <li>Administer injection in infusion pump.</li> <li>- Record accurately findings and medications.</li> <li>- Develop IPR with family members.</li> <li>- Acquint with OT technique</li> </ul>	<p>Assist in arterial puncture for blood gas analysis.</p> <ul style="list-style-type: none"> <li>-Perform ECG and interpret accordingly.</li> <li>Conduct analysis pulse oximetry.</li> <li>- Care with artificial airway</li> <li>- Assist in endotracheal Intubation</li> <li>Setting up ventilator,</li> <li>Giving care on ventilator.</li> <li>- Drug sheet.</li> <li>- Observation of special procedure in OT</li> </ul>	<ul style="list-style-type: none"> <li>- Arterial puncture-5</li> <li>- Taking out ECG stripe-5</li> <li>- Tracheal suction-5</li> <li>For all assigned patients.</li> <li>- Oxygen administration by CPAP mask and use Ambu bag.</li> <li>- Assessment for all assigned patients.</li> <li>- Nursing care of Ventilator patients</li> <li>- Drug sheet.</li> </ul>	<p>Record book</p> <p>Checking with Supervisor</p>
Neuro ICU, ITU, OT	2	<ul style="list-style-type: none"> <li>- Develop skill in neurological assessment:</li> <li>- Pt with head injury and spinal injury.</li> <li>- Care with chest surgery and 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 postoperative Care with neuro surgery patients.</li> </ul>	<p>Assessment for all assigned patients.</p> <p>Nursing care plan-2</p> <p>Drug sheet</p>	<p>Record book</p> <p>Observation Checklist</p>
Burns and plastic reconstructive surgery	2	<p>Assess the severity of burns.</p> <p>Administer rehydration therapy</p> <p>Observe reconstructive surgery</p>	<p>Nursing care</p>		

OT, Lapro- Scopic, Ortho- paedic, Eye, ENT	3	<ul style="list-style-type: none"> <li>- Identify instruments</li> <li>- Assist in OT setup</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>		Assist - cases	Record Book
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## Community Health Nursing - I

**Placement: Second year**

**Theory - 100 Hours**

**Practical -135 hours**

**Course description:**

This course is designed for students to appreciate the principles of prevention, promotion and maintenance of health for individuals, families and community.

Unit	Time (in hours)	Learning objectives	Content	Teaching Learning activities	Assessment methods
I	2	Describe concept and dimensions of health	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Community health nursing</li> <li>• definition, concept and dimensions of health</li> <li>• Emotion of health</li> <li>• Measurement of health &amp; diseases, vital statistics</li> <li>• Maintenance of health</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> </ul>
II	29	Describe determinants of health	<b>Determinants of health</b> <ul style="list-style-type: none"> <li>• Eugenics</li> <li>• Environment:                             <ul style="list-style-type: none"> <li>- Physical: Air, light, ventilation, Water, Housing, Sanitation; disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, communication infrastructure facilities arid Linkages</li> </ul> </li> </ul> <b>Environmental pollutions</b> : <ul style="list-style-type: none"> <li>• Causes, effects and control                                     <ul style="list-style-type: none"> <li>measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear pollution</li> </ul> </li> <li>• <b>Acts regulating the environment:</b> <ul style="list-style-type: none"> <li>National Pollution control board</li> </ul> </li> <li>• Air (prevention and control of pollution) Act</li> <li>• Water (prevention and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs, Models, films, slides</li> <li>• Visits to water supply, sewage disposal milk plant house etc</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Case studies</li> </ul>

			<p>control of pollution) Act</p> <p><b>Bacterial &amp; viral:</b> Agents, host carriers and immunity</p> <p>Arthropods and Rodents</p> <ul style="list-style-type: none"> <li>• <b>Water conservation,</b> rainwater harvesting, water shed management.</li> <li>• Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust</li> <li>• Role of information technology in environment and human health</li> <li>• <b>Food hygiene:</b> Production, Preservation, Purchase, preparation, consumption</li> <li>• Acts regulating food hygiene- Prevention of food adulteration act, Drugs and cosmetic act</li> <li>• Socio cultural- Customs ,taboos, Marriage system family structure of Status of special groups; Females, Children, Elderly, challenged groups and Sick persons</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>- Dietary pattern</li> <li>- Education, - Occupation</li> </ul> </li> <li>• Financial Management <ul style="list-style-type: none"> <li>- Income , - Budget</li> <li>- Purchasing power, - Security</li> </ul> </li> </ul>		
III	10	Describe concept, scope, uses methods and approaches of epidemiology	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>• Definition, concept, aims, scope, uses and terminology used in epidemiology</li> <li>• Epidemiological investigation</li> <li>• International</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs Models, films, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			<p>classification of diseases.</p> <ul style="list-style-type: none"> <li>• Medical entomology</li> <li>• Dynamics of disease</li> <li>• transmission: epidemiological triad</li> <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>		
IV	25	Describe Epidemiology and nursing: management of common Communicable diseases	<p><b>Epidemiology and nursing management of common Communicable Diseases</b></p> <ul style="list-style-type: none"> <li>• Respiratory infections <ul style="list-style-type: none"> <li>- Small Pox, - Chicken Pox,</li> <li>- Measles, - influenza, - Rubella</li> <li>- ARI's &amp; Pneumonia</li> <li>- Mumps, - Diphtheria</li> <li>- Whooping cough</li> <li>- Meningococcal Meningitis.</li> <li>- Tuberculosis, - SARS</li> </ul> </li> <li>• Intestinal infections <ul style="list-style-type: none"> <li>- Poliomyelitis</li> <li>- Viral hepatitis</li> <li>- Cholera</li> </ul> </li> <li>-Diarrhoeal diseases <ul style="list-style-type: none"> <li>- Typhoid fever</li> <li>- Food poisoning</li> <li>- Amoebiasis</li> </ul> </li> <li>Hook worm infection</li> <li>Ascariasis</li> <li>Drananculosis</li> <li>• Arthropod infections <ul style="list-style-type: none"> <li>-Dengue, - Malaria</li> <li>- Filariasis</li> </ul> </li> <li>• Zoonoses, Viral <ul style="list-style-type: none"> <li>- Rabies ,-Yellow fever</li> <li>- Japanese encephalitis</li> <li>- Kyasnur Forest Disease</li> </ul> </li> <li>• Bacterial <ul style="list-style-type: none"> <li>- Brucellosis</li> <li>- Plague, - Human</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts,</li> <li>• Graphs Models films, slides,</li> <li>• Seminar</li> <li>• Supervised field</li> <li>• practice-health centers, clinics and homes</li> <li>• Group projects / Health Education</li> </ul>	<p>Essay type</p> <ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective Type</li> </ul>

			<p>Salmonellosis</p> <ul style="list-style-type: none"> <li>- Anthrax, -Leptospirosis,</li> <li>• Rickettsial diseases</li> <li>- Rickettsial Zoonoses</li> <li>- Scrub typhus , - Murine typhus</li> <li>- Tick typhus, - Q fever</li> <li>• Parasitic zoonoses</li> <li>- Taeniasis</li> <li>, - Hydatid disease</li> <li>- Leishmaniasis</li> <li>• Surface infection</li> <li>- Trachoma , -Tetanus</li> <li>- Leprosy</li> <li>, -STD &amp; RTI</li> <li>- Yaws , - HIV/AIDS</li> </ul> <p>Any other</p>		
V	10	Describe Epidemiology and nursing management of common Non communicable diseases	<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 discussion</li> <li>• Explain using charts, graphs models, films slides</li> <li>• Seminar</li> <li>• Supervised field practice- health centers, clinics and homes</li> <li>• Group project/</li> <li>• Health education</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> </ul>
VI	5	Describe the concepts and scope of demography Describe methods of data collection, analysis and interpretation' of demographic data	<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 demographic data</li> <li>• Demographic rates and ratios</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Community identification survey</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of Survey report</li> </ul>
VII	18	Identify the impact of	<p><b>Population and its control</b></p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> </ul>

	population explosion in India Describe methods of population control	<ul style="list-style-type: none"> <li>• Population growth, variation among nations</li> <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 methods etc)- Terminal: surgical methods- Emergency contraception</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Population survey</li> <li>• Counseling</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Supervised field practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of Survey report</li> </ul>
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### Books list

#### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Park J & Park K	Text book of Community health for Nurses	Banarsidas Bhanot
2.	J.E Park	Preventive & Social Medicine	Banarsidas Bhanot
3.	Kamala G.	Community Health Nursing	Florence Publishers

#### Reference Books:

S.No	Prescribed Author	Title	Publisher
1.	Kasturi Sunder Rao	Introduction to community Health Nursing	
2.	Bedi	Social Preventive Medicine	
3.	Mahajan	Preventive social medicine	

## Community Health Nursing I – Practical

Placement : Second year

Time : 135 hours

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Community health nursing	Urban- 2 weeks and Rural-2 weeks	Build and maintain rapport Identify demographic characteristics, health determinants and community health resources Diagnose health needs of individual and families Provide primary care in health centre Counsel and educate individual, family and community	<ul style="list-style-type: none"> <li>• Use Techniques of interpersonal 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 and sugar, urine for albumin and sugar</li> <li>• Administer vaccines and medications to adults</li> <li>• Counsel and teach individual, family and 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> </ul> </li> <li>Family welfare methods</li> <li>-Health promotion</li> </ul>	<ul style="list-style-type: none"> <li>• To work with assigned families each in urban and rural /</li> <li>• Family Study -1</li> <li>• Observation report of community -1</li> <li>• Health talks 2 (1 in urban and 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 study, observation report and health talk</li> <li>• Completion of activity record</li> </ul>



## Communication & Educational Technology

**Placement: Second year**  
**Theory - 60 Hours**

**Hours – 90 hrs**  
**Practice Teaching - 30 hours**

### Course Description:

This course is designed to help the students 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	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	5		Describe the communication process Identify techniques of effective communication	<b>Review of Communication Process</b> • Process; elements and channel • Facilitators • Barriers and methods of overcoming • Techniques	• Lecture, Discussion • Role plays • Exercises with audio / video tapes	Respond to critical incidents Short answers • Objective type
II	5		Establish effective interpersonal relations with patients, families & co-workers	<b>Interpersonal relations</b> • Purpose & types • Phases • Barriers & methods of overcoming • Johari Window	• Lecture, Discussion • Role Plays • Exercises with Audio / video tapes • Process recording	• Short Answer • Objective type
III	5		Develop effective human relations in context of nursing	<b>Human relations</b> • Understanding self • Social behaviour, motivation, social attitudes • Individual and groups • Groups & individual • Human relations in context of nursing • Group dynamics • Team work	• Lecture Discussion • Sociometry • Group games • Psychometric exercise followed by discussion	• Short Answer • Objective type • Respond to test based on critical Incidents
IV	10	5	Develop basic skill of counseling and guidance	<b>Guidance &amp; Counseling</b> Definition Purpose, scope and need Basic principles Organization of counseling services Types of counseling approaches Role and preparation of counselor	Lecture discussion Role play on counseling in different situations followed by discussion	• Short Answer • Objective type • Assess performance in role play situations

				Issues for counseling in nursing students and practitioners Counseling process Steps and techniques, tools of counselor Managing disciplinary problems Management of crisis & referral		
V	5		Describe the philosophy & principles of Education Explain the teaching learning process	<b>Principles of education &amp; teaching learning process</b> • Education: meaning, philosophy, aims, functions & principles • Nature and Characteristics of learning • Principles and maxims of teaching, • Formulating objectives; general and specific • Lesson planning • Classroom management	• Lecture Discussion • Prepare lesson plan • Micro teaching • Exercise on writing Objectives	• Short Answer • Objective type • Assess lesson plans & teaching sessions
VI	10	10	Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings.	<b>Methods of teaching</b> • Lecture, demonstration, group discussion, seminar symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching, problem based learning, Self instructional module and simulation etc. • Clinical teaching methods: case method, nursing rounds & reports bedside clinic, conference (individual & group) process recording.	• Lecture Discussion • Conduct 5 teaching sessions using different methods & media	• Short Answer • Objective type • Assess teaching sessions
VII	10	8	Prepare and use different types of educational media effectively	<b>Educational Media</b> • Purposes and types of A.V. Aids, Principles & Sources etc., • Graphic aids: chalk board, chart, graphs, posters, flash cards, flannel graph, bulletin, cartoon. • Three Dimensional Aids:	• Lecture, discussions, • Demonstration • Prepare different teaching aids- Projected	• Short answers • Objective Type • Assess the teaching aids prepared.

			<ul style="list-style-type: none"> <li>Objects, Specimens, Models, Puppets</li> <li>• Printed Aids: Pamphlets &amp; leaflets.</li> <li>• Projected Aids: Slides, OHP, Films, TV, VCR/ VCD, Camera, Microscope, LCD.</li> <li>• Audio Aids: Tape recorder, public address system.</li> <li>• Computer</li> </ul>	and non-projected.		
VIII	5	7	<p>Prepare different types of questions for assessment of knowledge, skills and attitudes</p>	<p><b>Assessment:</b></p> <ul style="list-style-type: none"> <li>• Purpose and scope of evaluation and assessment</li> <li>• Criteria for selection of assessment techniques and methods</li> <li>• Assessment of knowledge: essay type questions, Short answer questions (SAQ). Multiple Choice Questions (MCQ).</li> <li>• Assessment of skills: Observation Check List, Practical Exam, Viva, Objective Structured clinical examination (OSCE)</li> <li>• Assessment of attitude: Attitude scales.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussions,</li> <li>• Exercise on writing different types of assessment tools.</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective types</li> <li>• Assess the strategies used in practice teaching sessions and exercise sessions</li> </ul>
IX	5		<p>Teach individuals, groups and communities about health with their active participation</p>	<p><b>Information, Education &amp; communication for health (IEC)</b></p> <ul style="list-style-type: none"> <li>• Health behaviour &amp; health education</li> <li>• Planning for health education</li> <li>• Health education with individuals, groups &amp; communities</li> <li>• Communicating health messages</li> <li>• Methods &amp; media for communicating health</li> <li>• Messages Using mass media</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Plan &amp; conduct health education, sessions for individuals, group &amp; communities</li> </ul>	<ul style="list-style-type: none"> <li>• Short Answer</li> <li>• Objective type</li> <li>• Assess the planning &amp; conduct of the educational session</li> </ul>

### Books list

**Prescribed books :**

S.No.	Prescribed Author	Title	Publisher
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1.	I. Clement	Textbook of Communication and Education Technology	
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**Reference Books :**

<b>S.No.</b>	<b>Prescribed Author</b>	<b>Title</b>	<b>Publisher</b>
1.	Sampath & Paneer Salwon	Introduction to Education Technology	Sterling
	K. Tryphena Sheeba	Communication and education technology for B.Sc. Nursing	Frontline

## **B.Sc NURSING 4 Years Course**

### **Third Year Syllabus:**

1. Medical-Surgical Nursing(Adult including Geriatrics)-II
2. Medical-Surgical Nursing(Adult including Geriatrics)-II  
practical
3. Child Health Nursing
4. Child Health Nursing- Practical
5. Mental Health Nursing
6. Mental Health Nursing- Practical

## Medical Surgical Nursing (Adult including Geriatrics) II

Placement: Third year

Time: Theory - 120 hours

Practical – 270 hours

### 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	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
I	15	Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear Nose and Throat	<p><b>Nursing management of Patient with disorders of Ear Nose and Throat</b></p> <p>Review of anatomy and physiology of the Ear, Nose and Throat</p> <p>Nursing Assessment- History and Physical assessment</p> <p>Etiology, Patho physiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of Ear, Nose and Throat disorders:</p> <p>- <b>External ear:</b> deformities, otalgia, foreign bodies, and tumours</p> <p>- Middle Ear- Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours</p> <p>-Inner ear-Meniere's Disease, labyrinthitis, ototoxicity, tumours</p> <p>- Upper airway infections, Common cold, sinusitis, ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis</p>	<ul style="list-style-type: none"> <li>• Lecture, 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<p>Upper respiratory airway epistaxis Nasal obstruction, laryngeal obstruction, cancer of the larynx Cancer of the oral cavity Speech defects and speech therapy Deafness – Prevention, control and rehabilitation Hearing Aids, implanted hearing devices - Special therapies - Nursing procedures - Drugs used in treatment of disorders of Ear, Nose and Throat, Role of nurse - Communicating with hearing impaired and muteness</p>		
II	15	Describe the Etiology, Patho physiology, clinical, manifestations, diagnostic measures and management of patients with disorders of eye	<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 the eye</li> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of eye disorders :</li> <li>- Refractive errors</li> <li>- Eyelids-infection, tumours and deformities - Conjunctiva-inflammation presentation and infection, bleeding- Cornea-inflammation and infection - Lens-Cataracts</li> <li>- Glaucoma - Disorder of the urinary tract, - Ocular tumours</li> <li>Disorders of posterior chamber and retina: Retinal and vitreous problems</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> <li>• Demonstration Practice session</li> <li>• Case discussions / Seminar</li> <li>• Health education Supervised clinical practice</li> <li>• Drug book /</li> <li>• Visit to eye bank</li> <li>• Participation in eye-Camps</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>Assessment of patient management problem</li> </ul>

			<p>Retinal detachment - Ocular emergencies and their prevention Blindness National blindness control program Eye Banking Eye prostheses and Rehabilitation Role of a nurse Communication with visually impaired Patient Eye camps, Special therapies Nursing procedures Drugs used in treatment of disorders of eye</p>		
III	16	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and nursing, management of patients with neurological disorders	<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 neurological system</li> </ul> <p>Nursing Assessment- History and Physical and neurological assessment and Glasgow coma scale Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of neurological disorders Congenital malformations Headache Head Injuries <b>Spinal Injuries:</b> - Paraplegia - Hemiplegia - Quadraplegia <b>Spinal cord compression</b> - herniation of intervertebral disc <b>• Tumors of the brain &amp; spinal cord</b> • Intra cranial and cerebral aneurysms <b>Infections:</b> - Meningitis, Encephalitis, Brain abscess, neurocysticercosis</p>	<ul style="list-style-type: none"> <li>• Lecture, 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 rehabilitation centre</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>



			<ul style="list-style-type: none"> <li>• <b>Movement disorders</b></li> <li>-Chorea, -Seizures- Epilepsies</li> <li><b>Cerebro Vascular Accidents (CVA)</b></li> <li>• Cranial, Spinal Neuropathies — Bell’s palsy, trigeminal neuralgia</li> <li>• Peripheral Neuropathies; GuillainBarr’e Syndrome</li> <li>• Myasthenia gravis</li> <li>Multiple sclerosis</li> <li>• Degenerative diseases</li> <li>- Delirium</li> <li>- Dementia</li> <li>- Alzheimer’s disease</li> <li>- Parkinson’s disease</li> <li>• Management of unconscious patients and patients with stroke</li> <li>• Role of the nurse in communicating with patient having neurological deficit</li> <li>• Rehabilitation of patients with neurological deficit</li> <li>- Role of nurse in long stay facility (institutions) and at home Special therapies</li> <li>- Nursing procedures Drugs used in treatment of neurological disorders</li> </ul>		
IV	16	Describe the etiology, Pathophysiology, clinical, manifestations, diagnostic, measures and nursing, management of patients with disorders of female reproductive system Describe concepts of reproductive health and	<b>Nursing management of patients with disorders of female reproductive system</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>• Breast Self Examination</li> <li>• Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management disorder of</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 /</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

	family welfare programme	<p>female reproductive system</p> <ul style="list-style-type: none"> <li>• Congenital abnormalities of female reproductive system</li> <li>• Sexuality and Reproductive Health</li> <li>• Sexual Health Assessment</li> <li>• Menstrual Disorders; Dysmenorrhea, Amenorrhea, Premenstrual Syndrome</li> <li>• Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia</li> <li>• Pelvic Inflammatory Disease- Ovarian and fallopian tube disorders; infections, cysts, tumours</li> <li>Uterine and cervical disorders Endometriosis, polyps, Fibroids Cervical and uterine tumours, uterine displacement, Cystocele / Urethrocele, Rectocele</li> <li>Vaginal disorders; Infections and Discharges, Fistulas Vulvar disorders; Infections, cysts, tumours</li> <li>Diseases of breasts, Deformities, Infections, Cysts and Tumours</li> <li>Menopause and Hormonal Replacement Therapy</li> <li>Infertility Contraception; Types Methods, Risk and effectiveness- Spacing Methods, Barrier methods, Intra Uterine Devices, Hormonal, Post Conceptional Methods etc</li> <li>Terminal methods, Sterilization, Emergency Contraception methods, Abortion -Natural, Medical and surgical abortion - MTP Act, Toxic Shock Syndrome, Injuries and Trauma Sexual violence,</li> </ul>	presentation	
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			Special therapies Nursing procedures, Drugs used in treatment of gynaecological disorders National family welfare programme etc.,		
V	10	Describe The etiology, pathophysiology clinical manifestations, diagnostic measures and nursing management of patients with Burns, reconstructive and cosmetic surgery	<p><b>Nursing management of patients with Burns, reconstructive and cosmetic surgery</b></p> <p>Review of anatomy and physiology of the skin and 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> </ul> <p>Etiology, classification, pathophysiology clinical manifestations, diagnosis treatment modalities and medical &amp; surgical nursing management of burns and re-constructive and cosmetic surgery</p> <p>Types of Reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes</p> <p>Role of Nurse</p> <p>Legal aspects</p> <p>Rehabilitation</p> <p>Special therapies</p> <ul style="list-style-type: none"> <li>- Psycho social aspects</li> </ul> <p>nursing procedures, Drugs used in treatment of burns, reconstructive and cosmetic surgery</p>	<ul style="list-style-type: none"> <li>• Lecture, 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</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
VI	10	Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and nursing management of patients	<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>• Nursing Assessment- History and Physical assessment</li> <li>• Prevention, Screening,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list.</li> <li>• Assessment of patient</li> </ul>

		with oncology	<p>Early detection, Warning signs of cancer</p> <ul style="list-style-type: none"> <li>• Epidemiology, Etiology, Classification, Pathophysiology, Staging, clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of oncological conditions</li> </ul> <p>Common malignancies of various body systems; Oral, larynx, lung, Stomach and Colon, Liver, Leukemias and lymphomas, Breast, Cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder, Prostate etc</p> <ul style="list-style-type: none"> <li>• Oncological emergencies</li> <li>• Modalities of treatment Immunotherapy Chemotherapy Radiotherapy Surgical Interventions Stem cell and Bone marrow transplants Gene therapy</li> <li>- Other forms of treatment</li> <li>• Psychosocial aspects of cancer.</li> <li>• Rehabilitation</li> <li>• Palliative care Symptom and Pain</li> <li>• Management, Nutritional support</li> <li>• Home care</li> <li>• Hospice care</li> <li>• Stoma Therapy</li> <li>• Special therapies</li> <li>- Psycho social aspects</li> <li>• Nursing procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book / presentation</li> </ul>	management problem
VII	10	Describe organization of emergency and disaster care services	<p><b>Nursing management of patient in Emergency &amp; Disaster situations</b></p> <p><b>Disaster Nursing:</b></p> <ul style="list-style-type: none"> <li>• Concepts and principles of Disaster Nursing</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment</li> </ul>

		<p>Describe the role of nurse in disaster management Describe the role of nurse in management of common Emergencies</p>	<ul style="list-style-type: none"> <li>• Causes and Types of Disaster: Natural and Man-made Earthquakes, Floods, Epidemics, Cyclones</li> <li>- Fire, Explosion, Accidents</li> <li>- Violence, Terrorism; bio chemical, War</li> <li>• Policies related to emergency /disaster management; International, national, state, institutional</li> <li>• Disaster preparedness: Team, Guidelines, protocols, Equipments, Resources</li> <li>Coordination and involvement of Community, various govt. departments</li> <li>Non-Government. organizations and International agencies</li> <li>Role of nurse: working</li> <li>• Legal Aspects of Disaster Nursing</li> <li>• Impact on Health and after effects; Post Traumatic Stress Disorder</li> <li>Rehabilitation; physical, psychosocial, Financial, Relocation</li> <li><b>Emergency Nursing</b></li> <li>Concept, priorities, principles and Scope of emergency nursing</li> <li>Organization of emergency services: physical setup, staffing, equipment and supplies, protocols,</li> <li>Concepts of triage and role of triage nurse</li> <li>Coordination and involvement of different departments and facilities</li> <li>Nursing Assessment- History and Physical assessment</li> <li>Etiology, Pathophysiology,</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration</li> <li>• Practice session</li> <li>• Case discussions / Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Disaster management drills</li> <li>• Drug book / presentation</li> </ul>	<ul style="list-style-type: none"> <li>of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>
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			<p>clinical manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of patient with medical and surgical Emergency</p> <p>Principles of emergency management</p> <p>Common Emergencies; Respiratory Emergencies; Cardiac Emergencies</p> <p>Shock and Haemorrhage, Pain, Poly-Trauma, road accidents, crush injuries, wounds , Bites, Poisoning; Food, Gas, Drugs &amp; chemical poisoning , Seizures</p> <p>Thermal Emergencies; Heat stroke &amp; Cold injuries</p> <p>Pediatric Emergencies</p> <p>Psychiatric Emergencies</p> <p>Obstetrical Emergencies, Violence, Abuse, Sexual assault, Cardio Pulmonary Resuscitation, Crisis Intervention, Role of the nurse; Communication and Inter Personal Relations</p> <p>Medico legal aspects</p>		
VIII	10	<p>Explain the concept and problems of aging</p> <p>Describe nursing care of the elderly</p>	<p><b>Nursing care of the elderly</b></p> <ul style="list-style-type: none"> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Aging;</li> <li>• Demography; Myths and realities</li> <li>• Concepts and theories of aging</li> <li>• Cognitive Aspects of Aging</li> <li>• Normal biological aging</li> <li>• Age related body systems changes</li> <li>• Psychosocial Aspects of Aging</li> <li>• Medications and elderly</li> <li>• Stress &amp; coping in older</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture 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 of old age</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<p>adults</p> <ul style="list-style-type: none"> <li>• Common Health Problems &amp; Nursing Management</li> <li>Cardiovascular, Respiratory, Musculoskeletal, Endocrine, genito-urinary, gastrointestinal</li> <li>Neurological, Skin and other Sensory organs-</li> <li>Psychosocial and Sexual- Abuse of elderly,</li> <li>Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual</li> <li>Role of nurse for caregivers of elderly</li> <li>Role of family and formal and non formal caregivers</li> <li>Use of aids and prosthesis (hearing aids, dentures, Legal &amp; Ethical Issues, Provisions and Programmes for elderly; privileges, Community Programs and health services, Home and institutional care</li> </ul>	home	
IX	10	<p>Describe organization of critical care units</p> <p>Describe the role of nurse in management of patients critical care Units</p>	<p><b>Nursing management of patient in critical care units</b></p> <ul style="list-style-type: none"> <li>• Nursing Assessment- History and Physical assessment</li> <li>• Classification</li> <li>• Principles of critical care nursing</li> <li>• Organization; Physical setup, Policies, staffing norms,</li> <li>• Protocols, equipment and supplies</li> <li>• Special equipments; ventilators,</li> <li>• Cardiac monitors, defibrillator,</li> <li>• Resuscitation equipments</li> <li>• Infection Control</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Explain using Charts, graphs</li> <li>• Models, films, slides</li> <li>• Demonstration</li> <li>• Role plays</li> <li>• Counselling</li> <li>• Practice session</li> <li>• Case discussions / Seminar</li> <li>• Health education</li> <li>• Supervised clinical practice</li> <li>• Drug book /</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problem</li> </ul>

			<p>Protocols</p> <ul style="list-style-type: none"> <li>• Nursing management of critically ill patient;</li> <li>• Monitoring of critically ill patient;</li> <li>• CPR-Advance Cardiac Life support</li> <li>• Treatments and procedures.</li> <li>• Transitional care</li> </ul> <p>Ethical and Legal Aspects</p> <ul style="list-style-type: none"> <li>• Communication with patient and family</li> <li>• Intensive care records</li> <li>• Crisis Intervention</li> <li>• Death and Dying-coping with Drugs used in critical care unit</li> </ul>	presentation	
X	8	Describe the etiology, patho-physiology, clinical manifestations, assessment, diagnostic measures and management of patients with occupational and industrial health disorder	<p><b>Nursing management of patients, adults including elderly with Occupational and Industrial Disorders</b></p> <ul style="list-style-type: none"> <li>• Nursing Assessment-History and Physical assessment</li> <li>• Etiology, Pathophysiology, clinical, manifestations, diagnosis, treatment modalities and medical &amp; surgical nursing management of occupational and industrial health disorders</li> <li>• Role of nurses Special therapies , alternative therapies, Nursing procedures</li> <li>- Drugs used in treatment of Occupational and Industrial disorders</li> </ul>		



## Medical Surgical Nursing (Adult including Geriatrics) - II Practical

Placement : Third year

Practical : 270 hrs

Internship : 430 hrs

Areas	Durati on (in weeks)	Objectives	Skills	Assignments	Assessment Methods
ENT	1	Provide care to patients with ENT disorders Counsel and educate patient and families	<ul style="list-style-type: none"> <li>• Perform examination of ear, nose and throat</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Instillation of drops</li> <li>• Perform/assist with irrigations.</li> <li>• Apply ear bandage</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- I</li> <li>• Observation reports of OPD</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess each skill with check list</li> <li>• Assess performance with rating scale</li> <li>• Evaluation of observation report of OPD</li> <li>• Completion of activity record</li> </ul>
Ophtha mology	1	Provide care to patients with Eye disorders Counsel and educate patient and families	<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 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- I</li> <li>• Observation reports of OPD &amp; eye bank</li> <li>• Maintain drug book.</li> </ul>	<ul style="list-style-type: none"> <li>• Assess each skill with check list</li> <li>• Assess performance with rating scale</li> <li>• Evaluation of observation report of OPD</li> <li>• Completion of activity record</li> </ul>
Neurol ogy	2	Provide care to patients with neurological disorders. Counsel and educate patient and families	<ul style="list-style-type: none"> <li>• Perform Neurological Examination</li> <li>• Use Glasgow coma scale</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Teach patients &amp; families</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to assigned 2-3 patients with neurological disorders.</li> <li>• Case study / Case presentation-1</li> <li>• Maintains drug book</li> <li>• Health Teaching- I</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 case study &amp; health teaching</li> </ul>

			<ul style="list-style-type: none"> <li>• Participate in rehabilitation program</li> </ul>		<ul style="list-style-type: none"> <li>• Completion of activity record</li> </ul>
Gynecology ward	1	Provide care to patients with gynecological disorders. Counsel and educate patients and families	<ul style="list-style-type: none"> <li>• Assist with gynecological Examination</li> <li>• Assist with diagnostic procedures</li> <li>• Assist with therapeutic procedures</li> <li>• Teach patient families</li> <li>• Teaching self Breast Examination.</li> <li>• Assist with PAP smear collection.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to 2-3 assigned patients</li> <li>• Nursing care plan- 2</li> <li>• Maintain 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 care plan</li> <li>• Completion of activity record</li> </ul>
Burns Unit	1	Provide care to patients with Burns Counsel and educate patient and families	<ul style="list-style-type: none"> <li>• Assessment of the burns patient <ul style="list-style-type: none"> <li>- Percentage of burns</li> <li>- Degree of burns.</li> </ul> </li> <li>• Fluid &amp; electrolyte</li> <li>• Replacement therapy <ul style="list-style-type: none"> <li>- Assess</li> <li>- Calculate</li> <li>- Replace</li> <li>- Record intake/output</li> </ul> </li> <li>• Care of Bum wounds <ul style="list-style-type: none"> <li>- Bathing</li> <li>- Dressing</li> </ul> </li> <li>• Perform active &amp; passive exercises</li> <li>• Practice medical &amp; surgical aspects</li> <li>• Counsel &amp; teach patients and families</li> <li>• Participate in rehabilitation program</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 Burns unit</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 care plan an observation report</li> <li>• Completion of activity record</li> </ul>
Oncology Unit	1	Provide care to patients with cancer Counsel and educate patient and families	<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> <li>• Breast examination</li> <li>• Assist with therapeutic procedures</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 each skill with checklist</li> <li>• Assess performance with rating scale</li> <li>• Evaluation of care plan and</li> <li>• Observation report</li> <li>• Completion of activity record</li> </ul>

			<ul style="list-style-type: none"> <li>• Participates in various modalities of treatment</li> <li>- Chemotherapy</li> <li>- Radiotherapy</li> <li>- Pain management</li> <li>- Stoma therapy</li> <li>- Hormonal therapy</li> <li>- Immunotherapy</li> <li>- Gene therapy</li> <li>- Alternative therapy</li> <li>• Participate in palliative care</li> <li>• Counsel and teach patients Families</li> <li>- Self Breast Examination</li> <li>- Warning signs</li> <li>• Participate in rehabilitation program</li> </ul>		
Critical care unit	2	Provide care to critically ill patients Counsel patient and families for grief and bereavement	<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 and interprets ABG analysis</li> <li>• Assist with arterial puncture</li> <li>• Maintain CVP line</li> <li>• Pulse oximetry</li> <li>• CPR-ALS</li> <li>• Defibrillator</li> <li>• Pace makers</li> <li>• Bag-mask ventilation</li> <li>• Emergency tray/ Crash Cart</li> <li>• Administration of drugs</li> <li>- Infusion pump</li> <li>- Epidural</li> <li>- Intrathecal</li> <li>- Intra cardiac</li> <li>• Total parenteral therapy</li> <li>• Chest physiotherapy</li> </ul>	<ul style="list-style-type: none"> <li>• Provide care to one assigned patient</li> <li>• Observation report of Critical care unit</li> <li>• Drugs 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 activity record</li> </ul>

			<ul style="list-style-type: none"> <li>• Perform active &amp; passive exercises</li> <li>• Counsel the patient and family in dealing with grieving and bereavement</li> </ul>		
Casualty Emergency	1	Provide care to patients in emergency and disaster situation Counsel patient and families for grief and bereavement	<ul style="list-style-type: none"> <li>• Practice triage</li> <li>• Assist with assessment, examination, investigations &amp; their interpretations, in emergency and disaster situations</li> <li>• Assist in documentations</li> <li>• Assist in legal procedures in emergency unit</li> </ul> Participate in managing crowd Counsel patient and families in grief and bereavement	<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</li> <li>• Completion of activity record</li> </ul>

**Placement : Internship**

Area	Duration (in week)	Objective	Skills	Assessment
Medical Ward	2	Provide comprehensive care to patients with medical and surgical conditions including emergencies	Integrated Practice	Assess clinical performance with rating scale
Surgical Ward	2			
Critical care unit/ICCU	1	- Assist with common operations		
Casualty/ Emergency	2			
Operation Theatre (Eye, ENT, Neuro)	2			

## Child Health Nursing

**Placement: Third Year**

**Time: Theory -90 hours**

**Practical – 270 hours**

**Internship – 145 hours**

### 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	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment method
I	15	<p>Explain the Modern concept of child care &amp; principles of child health nursing</p> <p>Describe national policy programs and legislation in relation to child health and welfare.</p> <p>List major causes of death during infancy, early &amp; late childhood</p> <ul style="list-style-type: none"> <li>• Describe the major functions and role of the paediatric nurse in caring for a hospitalized child.</li> </ul> <p>Describe the principles of child health nursing</p>	<p><b>Introduction</b></p> <p><b>Modern concepts of childcare</b></p> <ul style="list-style-type: none"> <li>• Internationally accepted rights of the Child</li> <li>• National policy and legislation in relation to child health and welfare</li> <li>• National programmes related to child health and welfare</li> <li>• Agencies related to welfare services to the children</li> <li>• Changing trends in hospital care, preventive, promotive and curative aspects of child health.</li> <li>• Child morbidity and mortality rates.</li> <li>• Differences between an adult and child</li> <li>• Hospital environment for a sick child</li> <li>• Impact of hospitalization on the child and family.</li> </ul> <p>Grief and bereavement</p> <ul style="list-style-type: none"> <li>• The role of a Child health nurse in caring for a hospitalized child</li> <li>• Principles of pre and post operative care of</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Demonstration of common paediatric procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Assessment of skills with checklist</li> </ul>

			<p>infants and children</p> <ul style="list-style-type: none"> <li>• Child health nursing procedures.</li> </ul>		
II	20	<p>Describe the normal growth &amp; development of children at different ages</p> <p>Identify the needs of children at different ages &amp; provide parental guidance</p> <p>Identify the nutritional needs of children at different ages and ways of meeting the needs</p> <p>Appreciate the role of play for normal &amp; sick children.</p> <p>Appreciate the preventive measures and strategies for children</p>	<p><b>The healthy child</b></p> <ul style="list-style-type: none"> <li>• Principles of growth and development</li> <li>• Factors affecting growth &amp; development</li> <li>• Growth and development from birth to adolescence</li> <li>• The needs of normal children through the stages of developmental and parental guidance</li> <li>• Nutritional needs of children &amp; infants: breast feeding, exclusive breast feeding, supplementary artificial feeding and weaning,</li> <li>• Baby friendly hospital concept</li> <li>• Accidents: causes and prevention</li> <li>• Value of play and selection of play material</li> <li>• Preventive immunization, immunization programme and cold chain</li> <li>• Preventive paediatrics</li> <li>• Care of under five &amp; under five Clinics / well baby clinics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Developmental study of infant and children</li> <li>• Observation study of normal and 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>• Short answers</li> <li>• Objective type</li> <li>• Assessment of field visits and developmental study reports</li> </ul>
III	15	<p>Provide care to normal &amp; high risk neonates</p> <p>Perform neonatal resuscitation.</p> <p>Recognize and Manage common neonatal problems</p>	<p><b>Nursing care of a neonate</b></p> <ul style="list-style-type: none"> <li>• Nursing care of a normal newborn/ Essential newborn care</li> <li>• Neonatal resuscitation</li> <li>• Nursing management of a low birth weight baby.</li> <li>• Kangaroo mother care</li> <li>• Nursing management</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• 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>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with checklist</li> </ul>

			of common neonatal disorders <ul style="list-style-type: none"> <li>• Organization of neonatal unit.</li> <li>• Identification &amp; nursing management of common congenital malformations.</li> </ul>		
IV	10		<b>Integrated management of neonatal and childhood illnesses (IMNCI)</b>		
V	20	Provide nursing care in common childhood diseases Identify measures to prevent common childhood diseases including immunization	<b>Nursing management in common childhood diseases</b> <ul style="list-style-type: none"> <li>• Nutritional deficiency disorders</li> <li>• Respiratory disorders and infections</li> <li>• Gastrointestinal infections, infestations and congenital disorders</li> <li>• Cardio vascular problem: congenital defects and rheumatic fever, rheumatic heart disease</li> <li>• Genito- urinary disorders: acute glomerulo nephritis, Nephrotic syndrome, Wilms' tumor, infection and congenital disorders.</li> <li>• Neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida.</li> <li>• Hematological disorders: Anemias, thalassemia, ITP, Leukemia, hemophilia</li> <li>• Endocrine disorders: Juvenile Diabetes Mellitus -</li> <li>• Orthopedic disorders:</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Objective type</li> <li>• Assessment of skills with checklist</li> <li>• Short answers</li> </ul>

			<p>club feet, hip dislocation and fracture.</p> <ul style="list-style-type: none"> <li>• Disorders of skin, eye, and ears</li> <li>• Common communicable diseases in children, their identification, nursing management in hospital and home and prevention.</li> <li>• Child health emergencies: poisoning, foreign bodies, hemorrhage, burns and drowning. Nursing care of infant and children with HIV / AIDS.</li> </ul>		
VI	10	<p>Manage the child with behavioral social problems Identify the social &amp; welfare services for Challenged children</p>	<p><b>Management of behavioral &amp; social problems in children</b></p> <ul style="list-style-type: none"> <li>• Management of common behavioral disorders</li> <li>• Management of common psychiatric problems</li> <li>• Management of challenged children: Mentally, Physically, &amp; Socially challenged</li> <li>• Welfare services for challenged children in India.</li> <li>• Child guidance clinics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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>• Short answers</li> <li>• Objective type</li> <li>• Assessment of Field Reports</li> </ul>



## Books list

### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Marlow	Pediatrics	W.B. Saunders
2.	Terry Kyle	Essentials of Pediatric Nursing	

### Reference Books:

S.No	Prescribed Author	Title	Publisher
1.	Whaley & Wong	Wong's Nursing care infant and children	Elsevier
2.	Hoken berry	Wong's Nursing care infant and children	LWW
3.	Parul Datta	Pediatric Nursing	
4.	Greef John W (Edt)	Manual of Pediatric Therapeutics	
5.	Meharban Sing	Care of the New born	
6.	Berhman & Kliegman	Nelso's Essentials of Pediatrics	W.B. Saunders
7.	Yadav K.	Nursing practice in Pediatric surgery	
8.	O.P. Ghai	Essentials of Pediatrics	
9.	Bowden	Pediatric Nursing procedures	
10.	Smith	Family centred care concepts, theory and practice	
11.	Nancy P. Hotifield et al	Broadribb's introduction to pediatric nursing	Wolter Kluwer

## Child Health Nursing – Practical

**Placement : Third year  
Fourth year**

**Time : 270 hrs (9 weeks)  
Internship : 145 hrs (3 weeks)**

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Methods
Paediatric Medicine Ward	3	Provide nursing care to children with various medical disorders • Counsel and educate parents.	<ul style="list-style-type: none"> <li>• Taking Paediatric History</li> <li>• Physical examination and assessment of children</li> <li>• Administer oral, I/M &amp; IV medicine/fluids</li> <li>• Calculation of fluid requirements</li> <li>• Prepare different strengths of IV 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> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Give care to three assigned paediatric patients</li> <li>• Nursing Care Plan-1</li> <li>• Case study/ presentation - I</li> <li>• Health Talk -1</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Assess each skill with checklist</li> <li>• OSCE/OSPE</li> <li>• Evaluation of case study / presentation and Health education session</li> <li>• Completion of activity record</li> </ul>

			<ul style="list-style-type: none"> <li>- Play therapy</li> <li>- Specific Disease conditions</li> </ul>		
Pediatric Surgery Ward	3	<p>Recognize different pediatric surgical conditions/ Malformations</p> <p>Provide pre and post operative care to children with common paediatric surgical conditions/ Malformation</p> <p>Counsel and educate parents</p>	<ul style="list-style-type: none"> <li>• Calculate, prepare and 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 and 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 three 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 clinical 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	<p>Perform assessment of children: Health, Developmental and Anthropometric</p> <p>Perform Immunization</p> <p>Give Health Education / Nutritional Education</p>	<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 - I</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Completion of activity record</li> </ul>
Paediatric medicine and surgery ICU	1 +1	<p>Provide nursing care to critically ill children</p>	<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> </ul>	<ul style="list-style-type: none"> <li>• Nursing care plan-1</li> <li>• Observation report-1</li> </ul>	<ul style="list-style-type: none"> <li>• Assess clinical performance with rating scale</li> <li>• Completion of activity record</li> <li>• Evaluation of</li> </ul>

			<ul style="list-style-type: none"> <li>• Administration fluids with infusion pump</li> <li>• Total parenteral nutrition, Phototherapy</li> <li>• Monitoring of babies</li> <li>• Cardio Pulmonary Resuscitation</li> </ul>		observation report
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### Internship

Area	Duration (in week)	Objective	Skills	Assessments	Assessment methods
Pediatric	1	Provide comprehensive care	Integrated Practice		Assess clinical
medicine ward/ICU	1	to children with medical conditions			performance with rating scale
Pediatric Surgery ward/ICU	1	Provide comprehensive care to children with surgical conditions	Integrated Practice		Assess clinical performance with Rating scale
NICU	1	Provide intensive care to neonates	Integrated Practice		Assess clinical performance with rating scale

## Mental Health Nursing

**Placement: Third Year**

**Theory —90 Hours**

**Practical — 270 Hours**

**Fourth year**

**Internship- 95 hours (2 weeks)**

**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	Time (hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment method
I	5	<p>Describes the historical Development &amp; current trends in mental health nursing</p> <p>Describe the epidemiology of mental health problems</p> <p>Describe the National Mental Health Act, Programmes and mental health policy</p> <p>Discusses the scope of mental health nursing</p> <p>Describe the concept of normal &amp; abnormal behaviour</p>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Perspectives 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>• Mental Health Act</li> <li>• National Mental health policy vis a vis National Health Policy</li> <li>• National Mental Health Programme</li> <li>• Mental health team</li> <li>• Nature and scope of mental health nursing</li> <li>• Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice</li> <li>• Concepts of normal and abnormal Behavior</li> </ul>	Lecture, Discussion	<ul style="list-style-type: none"> <li>• Objective type</li> <li>• Short answer</li> <li>• Assessment of the field visit reports</li> </ul>
II	5	<p>Defines the various terms used in mental health Nursing</p> <p>Explains the</p>	<p><b>Principles and Concepts of Mental Health Nursing</b></p> <ul style="list-style-type: none"> <li>• Definition: mental health nursing and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts</li> <li>• Review of</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answer</li> <li>• Objective type</li> </ul>

		<p>classification of mental disorders</p> <p>Explain psychodynamics of maladaptive behavior</p> <p>Discuss the etiological factors, psychopathology of mental disorders</p> <p>Explain the Principles and standards of Mental health Nursing</p> <p>• Describe the conceptual models of mental health nursing</p>	<p>terminology used</p> <ul style="list-style-type: none"> <li>• Classification of mental disorders: ICD</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- psychosocial factors</li> <li>• Psychopathology of mental disorders: review of structure and function of brain, limbic system and 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 model</li> <li>- Interpersonal model</li> </ul> </li> </ul>	<p>personality development</p>	
III	8	<p>Describe nature, purpose and process of assessment of mental health status</p>	<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>• Investigations: Related Blood chemistry, EEG, CT &amp; MRI</li> <li>• Psychological tests</li> <li>Role and responsibilities of Nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Practice session</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer type</li> <li>• Objective</li> <li>• Assessment of skills with check list</li> </ul>
IV	6	<p>Identify therapeutic Communication techniques</p> <p>Describe therapeutic</p>	<p><b>Therapeutic communication and nurse-patient relationship</b></p> <p>Therapeutic communication: Types,</p>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Demonstration</li> <li>• Role play</li> <li>• Process</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective Type</li> </ul>

		relationship Describe therapeutic impasse and its intervention	techniques, characteristics <ul style="list-style-type: none"> <li>• Types of relationship,</li> <li>• Ethics and 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 and its intervention</li> </ul>	recording	
V	14	Explain treatment modalities and therapies used in mental disorders and role of the nurse	<b>Treatment modalities and therapies used in mental disorders</b> <ul style="list-style-type: none"> <li>• Psycho Pharmacology</li> <li>• Psychological therapies: Therapeutic community, psycho therapy-Individual: psycho-analytical, cognitive and supportive, Family, Group, Behavioural, Play, Psycho-drama, Music, Dance, Recreational and Light therapy, Relaxation therapies: Yoga, Meditation, bio feedback</li> <li>• Alternative systems of medicine</li> <li>• Occupational therapy</li> <li>• Physical Therapy: electro convulsive therapy</li> <li>• Geriatric considerations</li> </ul> Role of nurse in above therapies	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Group work</li> <li>• Practice session</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective Type</li> </ul>
VI	5	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders	<b>Nursing management of patient with Schizophrenia, and other psychotic disorders</b> <ul style="list-style-type: none"> <li>• Classification: ICD</li> <li>• Etiology, psychopathology, types, clinical manifestations, diagnosis</li> <li>• Nursing Assessment- History, Physical and mental assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems.</li> </ul>

			<ul style="list-style-type: none"> <li>• Treatment modalities and nursing management of patients with Schizophrenia and other psychotic disorders</li> <li>• Geriatric considerations</li> <li>• Follow-up and home care and Rehabilitation</li> </ul>		
VII	5	Describe the etiology, psychopathology, Clinical manifestation, Diagnostic criteria and Management of patients with mood disorders	<p><b>Nursing management of patient with mood disorders</b></p> <ul style="list-style-type: none"> <li>• Mood disorders: Bipolar affective disorder, Mania depression and dysthymia etc</li> <li>• Etiology, psychopathology, clinical manifestations, diagnosis,</li> <li>• Nursing Assessment- History, Physical and mental assessment</li> <li>• Treatment modalities and nursing management of patients with mood disorders</li> <li>• Geriatric considerations</li> <li>• Follow-up and home care and rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems</li> </ul>
VIII	8	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatization disorders	<p><b>Nursing management of patient with neurotic, stress related and somatization disorders</b></p> <ul style="list-style-type: none"> <li>• Anxiety disorder, Phobias, Dissociation and Conversion disorder, Obsessive compulsive disorder, somatoform disorders, Post traumatic stress disorder</li> <li>• Etiology, psychopathology, clinical manifestations, diagnosis</li> <li>• Nursing Assessment- History, Physical and mental assessment</li> <li>• Treatment modalities and nursing management of patients with neurotic,</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems</li> </ul>



			<p>stress related and somatization disorders</p> <ul style="list-style-type: none"> <li>• Geriatric considerations</li> <li>• Follow-up and home care and rehabilitation</li> </ul>		
IX	5	Describe the etiology, psycho- pathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders	<p><b>Nursing management of patient with Substance use disorders</b></p> <ul style="list-style-type: none"> <li>• Commonly, used psychotropic substance: Classification, forms,routes, action, intoxication and withdrawal</li> <li>Etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis,</li> <li>• Nursing Assessment- History, Physical, mental assessment and drug assay.</li> <li>• Treatment (detoxification, antiabuse and narcotic antagonisttherapy and harm reduction) and nursing management of patients with substance use disorders</li> <li>• Geriatric considerations</li> <li>• Follow-up and home care and rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems</li> </ul>
X	4	Describe the etiology, psycho- pathology, clinical manifestations, diagnostic criteria and management of patients with personality, Sexual and Eating disorders	<p><b>Nursing management of patient with Personality, Sexual and Eating disorders</b></p> <ul style="list-style-type: none"> <li>• Classification of disorders</li> <li>• Etiology, psycho- pathology, characteristics, diagnosis,</li> <li>• Nursing Assessment- History, Physical and mental assessment</li> <li>• Treatment modalities and nursing management of patients with Personality, Sexual and Eating disorders</li> <li>• Geriatric considerations</li> <li>• Follow-up and home care and Rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of Patient management Problems</li> </ul>

XI	6	Describe the etiology, psycho- pathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency	<b>Nursing management of childhood and adolescent disorders including mental deficiency</b> <ul style="list-style-type: none"> <li>• Classification Etiology, psycho- pathology, characteristics, diagnosis</li> <li>Nursing Assessment- History, Physical, mental and IQ assessment</li> <li>• Treatment modalities and nursing management of childhood disorders including mental deficiency</li> <li>• Follow-up and home care and rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems</li> </ul>
XII	5	Describe the etiology, psycho- pathology, clinical manifestations, diagnostic criteria and management of organic brain disorders	<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 and Differential diagnosis (parkinsons and alzheimers)</li> <li>• Nursing Assessrment- History, Physical, mental and neurological assessment</li> <li>• Treatment modalities and nursing management of organic brain disorders</li> <li>• Geriatric considerations</li> <li>• Follow-up and home care and rehabilitation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Assessment of patient management problems</li> </ul>
XIII	6	• Identify psychiatric Emergencies and carry out crisis intervention	<b>Psychiatric emergencies and crisis intervention</b> <ul style="list-style-type: none"> <li>• Types of psychiatric emergencies and their management</li> <li>• Stress adaptation Model: stress and stressor, coping, resources and mechanism</li> <li>• Grief: Theories of grieving process, principles, techniques of counseling</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• demonstration</li> <li>• Practice session</li> <li>• Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Types of crisis</li> <li>• Crisis Intervention: Principles, Techniques and Process</li> <li>• Geriatric considerations</li> </ul> <p>Role and responsibilities of nurse</p>		
XIV	4	Explain legal aspects applied in mental health settings and role of the nurse	<p><b>Legal issues in Mental Health Nursing</b></p> <ul style="list-style-type: none"> <li>• The Mental Health Act 1987: Act, Sections, Articles and their implications etc., Indian Lunacy Act.1912</li> <li>• Rights of mentally ill clients</li> <li>• Forensic psychiatry</li> <li>• Acts related to narcotic and psychotropic substances and illegal drug trafficking</li> <li>• Admission and discharge procedures</li> <li>• Role and responsibilities of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Case discussion</li> <li>• Short answers</li> <li>• Objective Type</li> </ul>	
XV	4	Describe the model of Preventive psychiatry Describes Community Mental health services and role of the nurse	<p><b>Community Mental Health Nursing</b></p> <ul style="list-style-type: none"> <li>• Development of Community Mental Health Services:</li> <li>• National Mental Health Programme</li> <li>• Institutionalization Versus Deinstitutionalization</li> <li>• Model of Preventive psychiatry: Levels of Prevention</li> <li>• Mental Health Services available at the primary, secondary, tertiary levels including rehabilitation and Role of nurse</li> <li>• Mental Health Agencies: Government and voluntary, National and International</li> </ul> <p>Mental health nursing issues for special populations: Children, Adolescence, Women, Elderly, Victims</p>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Clinical / field practice</li> <li>• Field visits to mental health service agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers type</li> <li>• Objective type</li> <li>• Assessment of the field visit reports</li> </ul>

			of violence and abuse, Handicapped, HIV /AIDS etc.		
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### Books list

#### Prescribed books :

S.No.	Prescribed Author	Title	Publisher
1.	Bimla Kapoor	Text book of psychiatric Nursing Vol I & II	
2.	K.P. Neeraja	Essentials of Mental Health and psychiatric Nursing Vol I & II	
3.	Johnson Barbara	Psychiatric Nursing	Lippincott

#### Reference Books :

S.No.	Prescribed Author	Title	Publisher
1	Stuart	Principles and Practice of Psychiatric Nursing	
2.	Mohar Landa M.	Mental Health Nursing evidence Based concepts skills and practice	
3.	Sreevani	Text book of Mental Health Nursing	

## Mental Health Nursing-Practical

Placement : Third year

Time : Practical 270 hours (10 weeks)  
Internship : 95 hours (2 weeks)

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment methods
Psychiatric OPD	1	Assess patients with mental health problems Observe and assist in Therapies Counsel and educate patient, and families	<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 and assist in therapies</li> <li>• Teach patients and family members</li> </ul>	<ul style="list-style-type: none"> <li>• History taking and 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	1	Assessment of children with various mental health problems Counsel and educate children, families and significant others	<ul style="list-style-type: none"> <li>• History taking</li> <li>• Assist in psychometric assessment</li> <li>• Observe and assist in various therapies</li> <li>Teach family and 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 the observation report</li> </ul>

Inpatient ward	6	Assess patients with mental health problems To provide nursing care for patients with various mental Health problems Assist in various therapies Counsel and educate patients, families and significant others	<ul style="list-style-type: none"> <li>• History taking</li> <li>• Perform mental status examination (MSE)</li> <li>• Perform Neurological examination</li> <li>• Assist in psychometric Assessment</li> <li>• Record therapeutic, communication</li> <li>• Administer medications</li> <li>• Assist in Electroconvulsive Therapy (ECT)</li> <li>• Participate in all therapies</li> <li>• Prepare patients for Activities of Daily living (ADL)</li> <li>• Conduct admission and discharge counseling</li> <li>• Counsel and teach patients and families</li> </ul>	<ul style="list-style-type: none"> <li>• Give care to 2- patients with various mental disorders</li> <li>• Case study- 1</li> <li>• Care plan -2</li> <li>• Clinical presentation- 1</li> <li>• Process recording 2</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 the case study, care plan, clinical presentation, process recording</li> <li>• Completion of activity record</li> </ul>
Community Psychiatry	1	To identify patients with various mental disorders To motivate patients for early treatment and follow up To assist in follow up clinic Counsel and educate patient, family and community	<ul style="list-style-type: none"> <li>• Conduct case work</li> <li>• Identify individuals with mental health problems</li> <li>• Assists in mental health camps and clinics</li> <li>• Counsel and Teach family members, patients and community</li> </ul>	<ul style="list-style-type: none"> <li>• Case work-1</li> <li>• Observation</li> <li>• Report on field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance with rating scale</li> <li>• Evaluation of case work and observation report</li> <li>• Completion of activity record</li> </ul>

### Internship

Area	Duration (in week)	Objective	Skills	Assessments	Assessments methods
Psychiatry ward	2 weeks	Provide comprehensive care to patients with mental health problems	Integrated Practice		Assess clinical performance with rating scale

## Midwifery and Obstetrical Nursing-I

**Placement: Third year**

**Time: Theory- 40 hours**

**Practical -180 hours**

### 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 woman during antenatal, natal and post natal periods in hospitals and community settings. It also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
I	3	Recognize the trends and issues in midwifery and obstetrical nursing	<b>Introduction to midwifery And obstetrical Nursing</b> <ul style="list-style-type: none"> <li>• Introduction to concepts of midwifery and obstetrical Nursing</li> <li>• Trends in midwifery and obstetrical nursing</li> <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> <li>• National policy and legislation in relation to maternal health and welfare.</li> <li>• Maternal, morbidity, mortality and fertility rates</li> <li>• Perinatal, morbidity and mortality rates</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Explain using Charts and graphs</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

II	8	Describe the anatomy and physiology of female reproductive system	<p><b>Review of anatomy and physiology of female reproductive system and foetal development</b></p> <ul style="list-style-type: none"> <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>• Female organs of reproduction-external genitalia, internal genital organs and their anatomical relations, musculature blood- supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum.</li> <li>• Physiology of menstrual cycle</li> <li>• Human sexuality</li> <li>• Foetal development</li> <li>• Conception</li> <li>• Review of fertilization,</li> <li>• Implantation (embedding of the ovum), development of the embryo and placenta at term - functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord,</li> <li>• Foetal circulation, foetal skull, bones, sutures and measurements.</li> <li>• Review of Genetics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Review with Charts and models</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
III	8	Describe the diagnosis and management of women during antenatal period.	<p><b>Assessment and management of pregnancy (ante-natal)</b></p> <ul style="list-style-type: none"> <li>• Normal pregnancy</li> <li>• Physiological changes during pregnancy.</li> <li>• Reproductive system</li> <li>• Cardio vascular system</li> <li>• Respiratory system</li> <li>• Urinary system Gastro intestinal system</li> <li>• Metabolic changes</li> <li>• Skeletal changes</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Case discussion, presentation</li> <li>• Health talk</li> <li>• Practice session</li> <li>• Counseling session</li> <li>• Supervised</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>



		<ul style="list-style-type: none"> <li>• Skin changes</li> <li>• Endocrine system</li> <li>• Psychological changes</li> <li>• Discomforts of pregnancy</li> <li>• Diagnosis of pregnancy</li> <li>• Signs</li> <li>• Differential diagnosis</li> <li>• Confirmatory tests</li> <li>• Ante-natal care</li> <li>• Assessment- History and physical Examination</li> <li>Antenatal Examination <ul style="list-style-type: none"> <li>- Signs of previous child-birth</li> <li>- Relationship of foetus to uterus and pelvis: Lie, Attitude, Presentation, Position- Per vaginal examination.</li> </ul> </li> <li>• Screening and assessment for high risk;</li> <li>• Risk approach</li> <li>• History and Physical Examination</li> <li>• Modalities of diagnosis; Invasive &amp; Non-Invasive, ultrasonics, cardio tomography, NST, CST</li> <li>• Antenatal preparation</li> <li>Antenatal counseling</li> <li>Antenatal exercises, Diet</li> <li>Substance use <ul style="list-style-type: none"> <li>- Education for child-birth</li> <li>- Husband and families</li> <li>- Preparation for safe-confinement</li> <li>- Prevention from radiation</li> </ul> </li> <li>• Psycho-social and cultural aspects of pregnancy <ul style="list-style-type: none"> <li>- Adjustment to pregnancy</li> <li>- Unwed mother</li> <li>- Single parent</li> <li>- Teenage pregnancy</li> <li>- Sexual violence</li> </ul> </li> <li>• Adoption</li> </ul>	Clinical practice	
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IV	10	<p>Describe the physiology and Stages of labour.</p> <p>Describe the management of women during intra-natal period,</p>	<p><b>Assessment and management of intra-natal period</b></p> <ul style="list-style-type: none"> <li>• Physiology of labour, mechanism of labour</li> <li>• Management of labour. First stage, Signs and symptoms of onset of labour; normal and abnormal</li> <li>Duration</li> <li>Preparation of: <ul style="list-style-type: none"> <li>• Labour room</li> <li>• Woman- Assessment and observation of women in labour; partogram-maternal and foetal monitoring</li> <li>-Active management of labour, Induction of labour- Pain relief and comfort in labour</li> </ul> </li> <li>• Second stage: <ul style="list-style-type: none"> <li>• Signs and symptoms; normal and abnormal</li> <li>• Duration</li> <li>• Conduct of delivery; Principles and techniques</li> </ul> </li> <li>• Episiotomy (only if required)</li> <li>• Receiving the new born <ul style="list-style-type: none"> <li>- Neonatal resuscitation; initial steps and Subsequent resuscitation</li> <li>- Care of umbilical cord</li> <li>- Immediate assessment including screening for congenital anomalies</li> <li>- Identification</li> <li>- Bonding</li> <li>- Initiate feeding</li> <li>- Screening and transportation of the neonate</li> </ul> </li> <li>• Third stage <ul style="list-style-type: none"> <li>• Signs and symptoms; normal and abnormal</li> <li>• Duration</li> <li>• Method of placental expulsion</li> </ul> </li> <li>• Management; Principles and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management of problems</li> </ul>
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			<p>techniques</p> <ul style="list-style-type: none"> <li>• Examination of the placenta</li> <li>• Examination of perineum</li> <li>• Maintaining records and reports</li> <li>• Fourth Stage</li> </ul>		
V	5	<p>Describe the physiology of puerperium. Describe the management of women during post- natal period</p>	<p><b>Assessment and management of women during post natal period</b>  Normal puerperium;  Physiology Duration  Postnatal assessment and management  Promoting physical and emotional well-being-  Lactation management  Immunization  Family dynamics after child birth, Family welfare services; methods, counseling  Follow-up Records and reports</p>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Health talk</li> <li>• Practice Session - Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>
VI	6	<p>Describe the use of Hospital Management System</p>	<p><b>Assessment and management of normal neonates</b></p> <ul style="list-style-type: none"> <li>• Normal Neonate; <ul style="list-style-type: none"> <li>- Physiological adaptation,</li> <li>- Initial &amp; Daily assessment</li> <li>- Essential newborn care; Thermal control,</li> <li>- Breast feeding, prevention of infections</li> </ul> </li> <li>• Immunization</li> <li>• Minor disorders of newborn and its management</li> <li>• Levels of Neonatal care (level I, II, &amp; III) At primary, secondary and tertiary levels</li> <li>• Maintenance of Reports and Records</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>

## **B.Sc NURSING 4 Years Course**

### **Four Year Syllabus:**

1. Midwifery and Obstetrical Nursing-II
2. Midwifery and Obstetrical Nursing- Practical
3. Community Health Nursing – II
4. Community Health Nursing – II practical
5. Nursing Research & Statistics
6. Management of Nursing Services and Education

## Midwifery and Obstetrical Nursing-II

Placement : Fourth year

Theory : 60 hours

Practical : 180 hours

VII	15	Describe the Identification And management of women with high risk pregnancy	<ul style="list-style-type: none"> <li>• <b>High-risk pregnancy - assessment &amp; management</b></li> <li>• Screening and assessment                             <ul style="list-style-type: none"> <li>- Ultrasonics, cardiotomography, NST, CST, non-invasive &amp; invasive,</li> <li>- Newer modalities of diagnosis</li> </ul> </li> <li>• High-risk approach</li> <li>• Levels of care; primary, secondary and tertiary levels</li> <li>• Disorders of pregnancy- Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic- Pregnancy, vesicular mole,- Ante-partum haemorrhage.</li> <li>• Uterine abnormality and displacement.</li> <li>• Diseases complicating pregnancy                             <ul style="list-style-type: none"> <li>- Medical and surgical conditions</li> <li>-Infections, RTI (STD), UTI, HIV, TORCH</li> <li>- Gynaecological diseases complicating pregnancy</li> <li>- Pregnancy induced hypertension &amp; diabetes, Toxemia of pregnancy, hydramnios,</li> <li>- Rh incompatibility</li> <li>- Mental disorders</li> </ul> </li> <li>• Adolescent pregnancy, Elderly primi and grand multipara</li> <li>• Multiple pregnancy</li> <li>• Abnormalities of</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstrate using video films, scan reports, photograph etc</li> <li>• Case discussion / presentation</li> <li>• Health talk practice Session</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>
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			<p>placenta &amp; cord</p> <ul style="list-style-type: none"> <li>• Intra-uterine growth-retardation</li> <li>• Nursing management of mothers with high-risk pregnancy</li> <li>• Maintenance of Records and Report</li> </ul>		
VIII	15	Describe management of abnormal labour and obstetrical emergencies	<ul style="list-style-type: none"> <li>• <b>Abnormal Labour - assessment and management</b></li> <li>• Disorders in labour <ul style="list-style-type: none"> <li>-CPD and contracted pelvis</li> <li>-Malpositions and mal presentations</li> <li>- Premature labour, disorders of uterine actions <ul style="list-style-type: none"> <li>– precipitate labour, prolonged labour</li> </ul> </li> <li>- Complications of third stage: injuries to birth canal</li> </ul> </li> <li>• Obstetrical emergencies and their management; <ul style="list-style-type: none"> <li>- Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock</li> </ul> </li> <li>Obstetrical procedures and operations; <ul style="list-style-type: none"> <li>- Induction of labour, forceps, vacuum version, manual removal of placenta, cesarean section, destructive operations</li> </ul> </li> <li>• Nursing management of women undergoing Obstetrical operations and Procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstrate using video films, scan reports, photograph etc</li> <li>• Case discussion / presentation</li> <li>• Health talk practice Session</li> <li>• Supervised Clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>
IX	6	• Describe Management of post natal complications	<ul style="list-style-type: none"> <li>• <b>Abnormalities during Postnatal Periods</b></li> <li>• Assessment and management of woman with postnatal</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Case discussion /</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with</li> </ul>

			<p>complications</p> <ul style="list-style-type: none"> <li>- Puerperal infections, breast engorgement &amp; infections, thrombo-Embolic disorders, post-partum haemorrhage, Eclampsia and subinvolution,</li> <li>- Psychological complications: Post partum Blues, Post partum Depression, Post partum Psychosis</li> </ul>	<p>presentation</p> <ul style="list-style-type: none"> <li>• Supervised Clinical practice</li> </ul>	<p>check list</p> <ul style="list-style-type: none"> <li>• Assessment of patient management problems</li> </ul>
X	10	Identify the high risk neonates and their nursing management	<ul style="list-style-type: none"> <li>• <b>Assessment and management of High risk newborn</b></li> <li>• Admission of neonates in the neonatal intensive care units-protocols</li> <li>• Nursing management of: <ul style="list-style-type: none"> <li>- Low birth weight babies</li> <li>- Infections</li> <li>- Respiratory problems</li> <li>- Haemolytic disorders</li> <li>- Birth injuries</li> <li>- Malformations</li> </ul> </li> <li>• Monitoring of high risk neonates</li> <li>• Feeding of high risk neonates</li> <li>• Organization and management of neonatal intensive care units</li> <li>• Infection control in neonatal intensive care units</li> <li>• Maintenance of reports and records</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list</li> <li>• Assessment of patient management problems</li> </ul>
XI	4	Describe indication, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers	<p><b>Pharmaco-therapeutics in obstetrics</b></p> <ul style="list-style-type: none"> <li>• Indication, dosage, action, contra indication and side effects of drugs</li> <li>• Effect of drugs on pregnancy, labour &amp; puerperium</li> <li>• Nursing responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Drug book</li> <li>• Drug presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> <li>• Objective type</li> </ul>

			<p>in the administration of drug in Obstetrics</p> <ul style="list-style-type: none"> <li>- oxytocins, antihypertensives, diuretics, tocolytic agents, anti convulsants;</li> <li>• Analgesics and anesthetics in obstetrics.</li> <li>• Effects of maternal medication on foetus and neonate</li> </ul>		
XII	10	<p>Appreciate the importance of family welfare programme</p> <p>Describe the methods of contraception and role of nurse in family welfare programme</p>	<p>• <b>Family Welfare Programme</b></p> <ul style="list-style-type: none"> <li>• Population trends and problems in India</li> <li>• Concepts, aims, importance and history of family welfare programme</li> <li>• National Population: dynamics, policy and education</li> <li>• National family welfare programme; RCH, ICDS, MCH. Safe motherhood</li> <li>• Organization and administration; at national, state, district, block and village levels</li> <li>• Methods of contraception; spacing, temporary and permanent, Emergency contraception</li> <li>• Infertility and its management</li> <li>• Counseling for family welfare</li> <li>• Latest research in contraception</li> <li>• Maintenance of vital statistics</li> <li>• Role of national, international and voluntary organizations</li> <li>• Role of a nurse in family welfare programme</li> <li>• Training / Supervision / Collaboration with other</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Demonstration</li> <li>• Practice Session</li> <li>• Supervised Clinical practice</li> <li>• Group Project</li> <li>• Counseling session</li> <li>• Field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> <li>• Objective type</li> <li>• Assessment of skills with check list, project and field visits reports</li> </ul>



		functionaries in community like ANMs, LHVs, Anganwadi workers, TBAs (Traditional birth attendant-Dai)		
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## Books list

### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Bennett Myles	Textbook of midwives	
2.	D.C. Dutta	Text book of obstetrics	New Central Book agency
3.	Dawn C.S.	Undergraduate and postgraduate text book of Obs & Neonatology	

### Reference Books:

S.No	Prescribed Author	Title	Publisher
1.	Bobak & Jensen	Maternity & Gynaecologic Nursing	Mosby
2.	Reeder Martin & et al	Maternity Nursing : Women's health care	Family New born and Lippincott
3.	Olds S.B. et al	Obstetric Nursing	Addison - Wiley
4.	Betty B. Sweet	Maye's Midwifery : "A Midwives"	Textbook for Belliare Tindall

## Midwifery and Obstetrical Nursing- Practical

**Placement : Fourth year**

**Practical : 180 hours**

**Internship : 240 hours**

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Methods
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 and albumin</li> <li>• Antenatal examination - abdomen and 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 Examinations 30</b></li> <li>• Health talk - I</li> <li>• Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>• Verification of findings of Antenatal examinations</li> <li>• Completion of casebook 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 and suture it</li> <li>Resuscitate newborns</li> <li>Assist with Cesarean Sections, MTP and other surgical procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of Woman in labour</li> <li>• Per vaginal examinations and interpretation</li> <li>• Monitoring and caring of woman in labour</li> <li>• Maintenance of partograph</li> <li>• Conduct normal delivery</li> <li>• Newborn assessment and immediate care</li> <li>• Resuscitation of newborns</li> <li>• Assessment of risk status of newborn</li> <li>• Episiotomy aid suturing</li> <li>• Maintenance of labour and birth records</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct normal deliveries - 20</li> <li>Per vaginal examinations 5</li> <li>• Perform and Suture the episiotomies - 5</li> <li>• Resuscitate newborns - 5</li> <li>• Assist with Caesarean Sections - 2</li> <li>• Witness Abnormal deliveries – 5</li> <li>• Assist with MTP and other</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of clinical performance with rating scale</li> <li>• Assessment of each skill With check lists</li> <li>• Completion of Case book recordings</li> </ul>

			<ul style="list-style-type: none"> <li>• Arrange for and assist with Cesarean section and care for woman &amp; baby during Cesarean</li> <li>• Arrange for and assist with MTP and other surgical procedures</li> </ul>	<p>Surgical procedures - 1</p> <ul style="list-style-type: none"> <li>• Case book recordings</li> </ul>	
Postnatal ward	4	<p>Provide nursing care to post natal mother and baby</p> <p>Counsel and teach mother and family for parent hood</p>	<p>Examination and assessment of mother and Baby</p> <p>Identification of deviations</p> <p>Care of postnatal mother and baby</p> <p>Perineal care</p> <p>Lactation management</p> <p>Breast feeding</p> <p>Baby bath</p> <p>Immunization, Teaching postnatal mother:</p> <ul style="list-style-type: none"> <li>- Mother craft</li> <li>- Post natal care &amp;</li> <li>- Exercises</li> <li>- Immunization</li> </ul>	<ul style="list-style-type: none"> <li>• Give care to Post natal - mothers - 20</li> <li>• Health talks-I</li> <li>• Case study - Case presentation -I</li> <li>• Case book recordings</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of clinical performance</li> <li>• Assessment of each skill With checklists</li> <li>• Completion of Case book recording</li> <li>• Evaluation of case study and presentation and health education sessions</li> </ul>
New born nursery	2	<p>Provide nursing care to newborn at risk</p>	<ul style="list-style-type: none"> <li>• Newborn assessment</li> <li>• Admission of neonates</li> <li>• Feeding of neonates - Katori spoon, paladi, tube feeding, total Parenteral nutrition</li> <li>• Thermal management of neonates-kangaroo mother care, care of baby in incubator</li> <li>• Monitoring and care of Neonates</li> <li>• Administering medications</li> <li>• Intravenous therapy</li> <li>• Assisting with diagnostic Procedure</li> <li>• Assisting with</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 checklists</li> <li>• Evaluation of observation of study</li> </ul>

			<ul style="list-style-type: none"> <li>exchange transfusion</li> <li>• Care of baby on ventilator</li> <li>• Phototherapy</li> <li>• Infection control protocols in the nursery</li> <li>• Teaching and counseling of parents</li> <li>• Maintenance of Neonatal records.</li> </ul>		
Family Planning Clinic	Rotation from post natal ward-1 week	Counsel for and provide family welfare services	<ul style="list-style-type: none"> <li>• Counseling technique</li> <li>Insertion of IUD, Teaching on use of family planning methods</li> <li>• Arrange for and Assist with family planning operations</li> <li>• Maintenance of records and reports</li> </ul>	<ul style="list-style-type: none"> <li>• IUD insertion-5</li> <li>• Observation Study-1</li> <li>• Counseling-2</li> <li>• Simulation exercise on recording and reporting-1</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of each skill with check lists</li> <li>• Evaluation of And observation study</li> </ul>

<b>* Essential Requirements for registration as midwife</b>		
* Antenatal examination		30
* Conducting normal deliveries in		
Hospital/home/health centre		20
* Vaginal Examination		5
* Episiotomy and suturing		5
* Neonatal resuscitation		5
* Assist with Cesarean Section		2
* Witness/Assist abnormal deliveries		5
* Postnatal cases nursed in hospital/home/health centre		20
* Insertion of IUD		5

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

## Internship Obstetrical Nursing

Duration- 5 weeks

<b>Area</b>	<b>Duration (in week)</b>	<b>Objective</b>	<b>Skills</b>	<b>Assessments</b>	<b>Assessments methods</b>
Labour Ward	2	Provide comprehensive care to mothers and neonates	Integrated Practice	Completion of other essential Requirement Case book recordings	Assess clinical performance with rating scale Completion of case book recordings
Neonatal intensive care unit NICU	1				
Antenatal	2				

## Community Health Nursing-II

**Placement: Fourth year**

**Time: Theory – 110 hours**

**Practical - 135 hours**

### Course description:

This course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concept and principles of health and community health nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
I	4	Define concepts, scope, principles and historical development of Community Health and community health Nursing	<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</li> <li>- Pre-independence</li> <li>- Post-independence</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
II	6	Describe health plans, policies, various health committees and health problems in India	<b>Health planning and policies and problems</b> <ul style="list-style-type: none"> <li>• National health planning in India                             <ul style="list-style-type: none"> <li>- Five Year Plans</li> </ul> </li> <li>• Various committees and commissions on health and family welfare                             <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> </li> <li>• Health problems in India</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture discussion</li> <li>• Panel discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
III	17	Describe the system of delivery of community health services in rural and urban areas List the	<b>Delivery of community health services</b> <ul style="list-style-type: none"> <li>• Planning, budgeting and material management of SCs , PHC and, CHC</li> <li>• Rural: Organization, staffing and</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, discussion</li> <li>• Visits to various health delivery systems</li> <li>• Supervised field</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

	<p>functions of various levels and their staffing pattern</p> <p>Explain the disaster management</p> <p>Explain the components of health services</p> <p>Describe alternative systems of health promotion and health maintenance.</p> <p>Describe the chain of referral system</p>	<p>functions of rural health services provided by government at:</p> <ul style="list-style-type: none"> <li>- Village</li> <li>- Sub centre</li> <li>- Primary health centre</li> <li>- Community health center /</li> <li>- sub divisional</li> <li>- Hospitals</li> <li>- District</li> <li>- State</li> <li>- Center</li> </ul> <p>Urban: Organization, staffing and functions of urban health services provided by government at:</p> <ul style="list-style-type: none"> <li>- Slums</li> <li>- Dispensaries</li> <li>• Disaster management : floods earth quake , cyclone and land slides.</li> </ul> <p>Role of nurse in disaster management</p> <ul style="list-style-type: none"> <li>• Climate changes, global warming, acid rain, ozone layer depletion , nuclear accidents and holocaust.</li> <li>• Special Clinics, Hospitals / Corporation /Municipality / Board</li> <li>• Components of health services</li> <li>• Environmental sanitation</li> <li>• Health education .</li> <li>- Vital statistics</li> <li>- M.C.H.-antenatal, natal, postnatal, MTP Act, female Foeticide and female Foeticide Act, child adoption Act.</li> <li>• Women and child welfare</li> <li>• Referral system</li> </ul>	<p>practice</p> <ul style="list-style-type: none"> <li>• Panel discussion</li> </ul>	
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IV	30	<p>Describe Community health Nursing approaches and concepts</p> <p>Describe the roles and responsibilities of Community health nursing personnel</p>	<p><b>• Community health nursing approaches, concepts and roles and responsibilities of nursing</b></p> <ul style="list-style-type: none"> <li>• Personnel, Approaches</li> <li>• Nursing theories and Nursing process</li> <li>• Epidemiological approach, Problem solving approach</li> <li>• Evidence based approach</li> <li>• Empowering people to care for themselves</li> <li>• Concepts of Primary Health Care: <ul style="list-style-type: none"> <li>• Equitable distribution</li> <li>• Community participation</li> <li>• Focus on prevention, Use of appropriate technology</li> </ul> </li> <li>• Multi-sectoral approach</li> </ul> <p>Roles and responsibilities of Community health nursing</p> <ul style="list-style-type: none"> <li>• Personnel in Family health services</li> <li>• Information Education Communication (IEC)</li> <li>• Management Information System (MIS):</li> </ul> <p>Maintenance of</p> <ul style="list-style-type: none"> <li>• Records &amp; reports,</li> </ul> <p>Training and supervision of various categories of health workers</p> <ul style="list-style-type: none"> <li>• Maternal and child health and Family welfare</li> <li>• Treatment of Minor ailments, School Health Services</li> <li>• Occupational Health</li> <li>• Solid waste management: causes, effects and control measures of urban and industrial waste.</li> </ul> <p>Organization of clinics, camps: Types, Preparation, planning, conduct and evaluation</p> <p>Waste management in the</p>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> </ul>
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			center, clinics etc Home visit: Concept, Principles, Process, Techniques: Bag technique home visit Qualities of Community Health Nurse Job Description of Community health nursing personnel		
V	15	Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health	<ul style="list-style-type: none"> <li>• Assisting individuals and groups to promote and maintain their Health</li> <li>• Empowerment for self care of individuals, families and groups in</li> <li><b>A. Assessment of self and family</b></li> <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 <ul style="list-style-type: none"> <li>- Menstrual cycle- Breast self examination and testicles</li> </ul> </li> <li>• Warning Signs of various diseases</li> <li>• Tests : Urine for sugar and albumin, blood sugar</li> <li><b>B. Seek health services for</b> <ul style="list-style-type: none"> <li>- Routine checkup</li> <li>- Immunization</li> <li>-Counseling</li> <li>-Diagnosis</li> <li>- Treatment</li> <li>- Follow up</li> </ul> </li> <li><b>C. Maintenance of health records for self and family</b></li> <li><b>D. Continue medical care and follow up in community for various diseases and disabilities</b></li> <li><b>E. Carryout therapeutic procedures as prescribed : Required for self and family</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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 answers</li> </ul>

			<p><b>F. Waste Management</b> Collection and disposal of waste home and community.</p> <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>- 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> </ul> <p>Homes for destitute</p> <p><b>Women and child welfare</b></p>		
VI	20	<p>Describe National Health and Family Welfare Programmes and Role of Nurse</p> <p>Describe the various health schemes in India</p>	<p><b>• National Health &amp; Family Welfare Programmes and the Role of Nurse</b></p> <ul style="list-style-type: none"> <li>• National ARI Programme</li> <li>• Revised National Tuberculosis Control Programme (RNTCP)</li> <li>• National Anti-Malaria Programme</li> <li>• National Filaria control Programme</li> <li>• National Guinea worm eradication Programme</li> <li>• National Leprosy Eradication Programme</li> <li>• National AIDS Control Programme</li> <li>• STD Control Programme</li> <li>National Programme for Control of Blindness</li> <li>• Iodine Deficiency Disorder Programme</li> <li>• Expanded Programme on</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussions</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 Answers</li> </ul>

			<p>Immunization</p> <ul style="list-style-type: none"> <li>• National Family Welfare Programme <ul style="list-style-type: none"> <li>– RCH Programme</li> </ul> </li> <li>Historical Development, Organization, Administration, Research, Constraints</li> <li>• National Water Supply &amp; Sanitation Programme</li> <li>• Minimum need programme</li> <li>• National Diabetics Control Programme</li> <li>• Polio Eradication: Pulse Polio Programme</li> <li>• National Cancer Control Programme</li> <li>• Yaws eradication programme</li> <li>• National Nutritional Anemia Prophylaxis Programme</li> <li>• 20 Point Programme</li> <li>• ICDS Programme</li> <li>• Mid-day Meal Applied Nutritional Programme</li> <li>• National Mental Health Programme</li> <li>• Health Schemes ESI , CGHS, Health Insurance</li> </ul>		
VII	5	Explain the roles and functions of various national and international health agencies	<p><b>Health Agencies</b></p> <p><b>International</b></p> <ul style="list-style-type: none"> <li>- WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (BC), Red cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc.</li> </ul> <p><b>National</b> - Indian Red Cross, Indian Council for child welfare, Family Planning Association of India (FPAI), Tuberculosis Association of India, HinduKusht Nivaran Sangh, Central Social</p>	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- discussion</li> <li>- Field visits</li> </ul>	<ul style="list-style-type: none"> <li>- Essay type</li> <li>- Short answers</li> </ul>

			Welfare Board, All India women's conference, Blind Association of India etc		
VIII	7	Explain the concept of ecosystem and structure and functions of an ecosystem	<p><b>Ecosystem :</b></p> <ul style="list-style-type: none"> <li>• Concept of an ecosystem.</li> <li>• Structure and functions of an ecosystem,</li> <li>• Producers, consumers and decomposers.</li> <li>• Energy flow in the ecosystem <ul style="list-style-type: none"> <li>-ecological succession</li> </ul> </li> <li>• Food chains webs and ecological pyramids.</li> <li>• Introduction, types, characteristics features, structure and functions of the following ecosystem : <ol style="list-style-type: none"> <li>a. Forest ecosystem</li> <li>b. Grassland ecosystem.</li> <li>c. desert ecosystem</li> </ol> <ul style="list-style-type: none"> <li>- Aquatic ecosystem (ponds, streams, lakes, oceans. Estuaries.</li> </ul> </li> <li>• Wild life protection act: Forest protection act</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture and discussion and field visits</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>
IX	6	Explain biodiversity and its conservation Describe biodiversity at global, national and local level	<p><b>Biodiversity and its conservation</b></p> <ul style="list-style-type: none"> <li>• Introduction – Definition, genetic species and ecosystem diversity</li> <li>• Biogeographical classification of India</li> <li>• Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option value</li> <li>• Biodiversity at global, National and local levels</li> <li>• India as a mega – diversity nation</li> <li>• Hot –spots of biodiversity</li> <li>• Threats to biodiversity : habitat loss, poaching of wildlife, man – wildlife conflicts</li> <li>• Endangered and endemic species of India</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture and discussion &amp; Field visit</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			• Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity		
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### Books list

#### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Park K.	Text book of preventive and social medicine	Bhanot
2.	K.K. Gulani	Introduction to Community Health Nursing	Banarsidas
3.	TNAI	Community Health Nursing Manual	

#### Reference Books:

S.No	Prescribed Author	Title	Publisher
1	K. Sunder Rao	Introduction to Community Health Nursing	
2.	Stanhope	Community Health Nursing	
3.	Hunt	Community Health Nursing	
4.	Allander J.A. & Spardley	Community Health Nursing promoting and protecting the public health	L.W.W
5.	Sathe	Epidemiology and Management for health care for all	
6.	Trivedi R.K.	Handbook of Environmental Laws, Rules and guidelines compliances and standards vol I and II	Rnviro Media
7.	Trivedi R.K. and P.K. Goel	Introduction to air pollution	Techno science Publication (TB)
8.	Wanger K.D 1998	Environmental Management	W.B. Saunders Co Philadelphia, USA
9	S.Kamalam	Comprehensive in Community health nursing practice	Elsevier
10	Mole	Ecology concept and applications	Hill Professional Publications

## Community Health Nursing-II Practical

**Placement: Fourth year**

**Time : 135 hours**

**Internship : 195 hours**

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment methods
Community health nursing	Urban-1 week hours Rural-4 weeks	<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 and community</li> <li>• Plan, provide and evaluate care</li> <li>• Participate in school health program</li> <li>• Participate in national health programs</li> <li>• Organize group for self help and involve client in their own health activities</li> <li>• Provide family welfare services</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, post natal, 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> </ul> </li> <li>Accidents and emergencies-</li> <li>Illnesses: Physical and mental-</li> <li>Disabilities</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 and allied agencies</li> <li>Train and Supervise health</li> </ul>	<ul style="list-style-type: none"> <li>• Community report-I</li> <li>• Family care</li> <li>• Study- I</li> <li>• Project-I</li> <li>• Health talk-I</li> <li>• Case book</li> <li>• Recording</li> </ul>	<ul style="list-style-type: none"> <li>Assess clinical performance with rating scale</li> <li>Evaluation of Community survey report, family care study project and health talk</li> <li>Completion of activity record</li> <li>Completion of case book recording</li> </ul>

		<ul style="list-style-type: none"> <li>• Counsel and educate individual, family and community</li> <li>• Collect Vital health statistics</li> <li>• Maintain Records &amp; Reports</li> </ul>	<p>workers</p> <p>Provide family welfare services: insertion of IUD</p> <p>Counsel and teach individual, family and community about: HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly health, physically and mentally challenged individuals etc</p> <p>Collect and Calculate Vital health statistics</p> <p>Document and maintain</p> <ul style="list-style-type: none"> <li>- Individual, family and administrative records.</li> <li>- Write reports-center, disease, national health programme / projects</li> </ul>		
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**Placement : Internship Time : 4 Weeks**

Area	Duration (in week)	Objective	Skills	Assessments	Assessments methods
Urban	4 weeks	Provide comprehensive care to individual, family and community	Integrated Practice and group project -I in each rural and urban		Assess clinical performance with rating scale Evaluation of project

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

# NURSING RESEARCH AND STATISTICS

**Placement: Fourth year Internship**

**Time: Theory - 45 hours**

**Practical - 45 hours**

## Course Description:

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
I	4	Describe the concept of research, terms, need and areas of research in nursing. Explain the steps of research process.	<b>Research and research process</b> <ul style="list-style-type: none"> <li>• Introduction and need for nursing research</li> <li>• Definition of Research &amp; nursing research</li> <li>• Steps of scientific method</li> <li>• Characteristics of good research</li> <li>• Steps of Research process overview</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Narrate steps of research process followed from examples of published studies</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
II	3	Identify and state the research problem and objectives	<ul style="list-style-type: none"> <li>• <b>Research Problem Question</b></li> <li>• Identification of problem area</li> <li>• Problem statement</li> <li>• Criteria of a good research problem.</li> <li>• Writing objectives</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Exercise on writing statement problem and objectives</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
III	3	Review the related literature	<ul style="list-style-type: none"> <li>• <b>Review of Literature</b></li> <li>• Location</li> <li>• Sources</li> <li>• Online search; CINHALL, COCHRANE etc</li> <li>• Purposes</li> <li>• Method of review</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>• Short answer</li> <li>• Objective type</li> </ul>



IV	4	Describe the research approaches and designs	<b>Research approaches and designs:</b> <ul style="list-style-type: none"> <li>• Historical, survey and experimental</li> <li>• Qualitative and Quantitative designs</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>• Short answer</li> <li>• Objective type</li> </ul>
V	8	Explain the sampling process Describe the methods of data collection	<b>Sampling and data collection:</b> <ul style="list-style-type: none"> <li>• Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling techniques.</li> <li>• Data - why, what, from whom, when and where to collect.</li> <li>• Data collection methods and instruments: <ul style="list-style-type: none"> <li>- Methods of data collection</li> <li>- Questioning, interviewing</li> <li>- Observations, record analysis and measurement</li> <li>- Types of instruments</li> </ul> </li> <li>• Validity &amp; Reliability of the Instrument <ul style="list-style-type: none"> <li>- Pilot study</li> <li>- Data collection procedure</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Reading Conduct assignment on examples of data collection tools.</li> <li>• Preparation of sample data collection tool</li> <li>• Conduct group research project</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
VI	4	Analyze, Interpret and summary the research data	<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>• Short answer</li> <li>• Objective type</li> </ul>

VII	15	Explain the use of statistics, scales of measurement and graphical presentation of data Describe the measures of central tendency and variability and methods of correlation.	<b>Introduction to statistics:</b> • Definition, use of statistics, scales of measurement. • Frequency distribution and graphical presentation of data • Mean, Median, Mode, Standard deviation • Normal Probability and tests of significance • Co-efficient of correlation. • Statistical packages and its application	• Lecture, Discussion • Practice on graphical presentations • Practice on computation of measures of central tendency variability & correlation	• Short answer • Objective type
VIII	4	Communicate and utilize the research findings.	<b>Communication and utilization of Research:</b> • Communication of research findings - Verbal report - Writing research report - Writing scientific article /paper - Critical review of published research - Utilization of research findings	Lecture, Discussion • Read / Presentations of sample published / unpublished research report. • Writing group research project	• Short answer • Objective type • Oral presentation • Assessment of group research Project.

### Books list

#### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Polit	Principles and methods of Nursing Research	
2.	Rose marie	Foundations of Nursing Research	Pearson
3.	P.S.S. Sundar Rao	Introduction to statistics	

#### Reference Books:

S.No	Prescribed Author	Title	Publisher
1	Robert Newell and Philips Bernard	Research for Evidence based practice	
2.	Desmond F.S.Cormark	The Research Process in Nursing	
3.	Kothari	Research Methodology : Methods and Techniques	
4.	Garrett	Statistics in Psychology and Education	
5	John Best	Research in Education	
6	Nancy Burns	Understanding Nursing Research	

# MANAGEMENT OF NURSING SERVICES AND EDUCATION

Placement: Fourth year

Hours- 90 Hours

Theory: 60 hours

Practical: 30 hours

## 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 and contribution to the growth of the profession.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Method
	T	P				
I	4		Explain the principles and functions of management	<b>Introduction to management in nursing</b> <ul style="list-style-type: none"> <li>• Definition, concepts and theories</li> <li>• Functions of management</li> <li>• Principles of Management</li> <li>• Role of Nurse as a manager</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Explain using organization chart</li> </ul>	<ul style="list-style-type: none"> <li>• Short answers</li> </ul>
II	5		Describe the elements and process of management	<b>Management process</b> <ul style="list-style-type: none"> <li>• Planning; mission, philosophy, objectives, operational plan</li> <li>• Staffing                             <ul style="list-style-type: none"> <li>- philosophy,</li> <li>- staffing study, norms,</li> <li>- activities, patient classification systems, scheduling</li> </ul> </li> <li>• Human resource management;                             <ul style="list-style-type: none"> <li>- recruiting,</li> <li>- selecting,</li> <li>- deployment,</li> <li>- retaining,</li> <li>- promoting, superannuation etc</li> </ul> </li> <li>• Budgeting:                             <ul style="list-style-type: none"> <li>- concept, principles, types, cost benefit analysis, audit</li> </ul> </li> <li>• Material management:                             <ul style="list-style-type: none"> <li>- equipment and supplies</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, Discussion</li> <li>• Simulated Exercises</li> <li>• Case studies</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

				<ul style="list-style-type: none"> <li>• Directing process, (Leading )</li> <li>• Controlling: <ul style="list-style-type: none"> <li>- Quality management</li> </ul> </li> <li>• Program Evaluation Review Technique (PERT), Bench marking, Activity Plan (Gantt Chart),</li> </ul>		
III	8	20	Describe the Management of nursing services in the hospital and Community	<p><b>Management of nursing services in the hospital and Community:</b></p> <ul style="list-style-type: none"> <li>• Planning: <ul style="list-style-type: none"> <li>- Hospital and patients care units including ward management</li> <li>- Emergency and disaster Management</li> <li>- Human resource management: <ul style="list-style-type: none"> <li>- Recruiting, selecting, deployment, retaining, promoting, superannuation etc</li> </ul> </li> <li>- Categories of nursing personnel including job description of all levels</li> <li>- Categories of nursing personnel including job description of all levels</li> <li>- Patient/population classification systems</li> <li>- Patients/population assignment and Nursing care responsibilities</li> <li>- Staff development and welfare</li> </ul> </li> <li>• Budgeting : Proposal, Projecting requirements for staff equipments and supplies for <ul style="list-style-type: none"> <li>- Hospital and patient care units</li> <li>- Emergency and disaster management</li> </ul> </li> <li>• Material management: procurement, inventory control, auditing and maintenance in</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture, 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>• Assignment 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 answers</li> <li>• Assessment of Problem solving exercises</li> <li>• Assessment of the assignments</li> <li>• Performance evaluation by ward sister with rating scale</li> </ul>

				<ul style="list-style-type: none"> <li>- Hospital and patients care units</li> <li>- Emergency and disaster management</li> <li>• Directing and leading : delegating participatory management</li> <li>- Assignments, rotations, delegations</li> <li>- Supervision &amp; guidance</li> <li>- Implement standards, policies, procedures and practices</li> <li>- Staff development and welfare</li> <li>- Maintenances of discipline</li> <li>• Controlling / Evaluation</li> <li>- Nursing Rounds / visits, Nursing protocols</li> <li>Manuals</li> <li>- Quality assurance model, documentation</li> <li>- Records and reports performance Appraisal</li> </ul>		
IV	5		Describe the concepts, theories and techniques of Organizational behaviour and human relations	<p><b>Organizational behavior and human relations:</b></p> <p>Concepts and theories of Organizational behaviours</p> <p>Review of Channels of communication</p> <p>Leadership styles</p> <p>Review of Motivation; concepts and theories</p> <p>Group dynamics</p> <p>Techniques of</p> <ul style="list-style-type: none"> <li>- Communication; and Interpersonal relationships</li> <li>- Human relations;</li> </ul> <p>Public relations in context of nursing</p> <p>Relations with professional associations and employee unions and Collective bargaining</p>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>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 answers</li> <li>• Assessment of problem solving exercises</li> </ul>

V	5	5	Participate in planning and organizing in service education program	<b>In service education:</b> <ul style="list-style-type: none"> <li>• Nature &amp; scope of inservice education program,</li> <li>• Organization of in service Education</li> <li>• Principles of adult learning,</li> <li>• Planning for in-service education program, techniques, methods &amp; evaluation of staff education program</li> <li>• Preparation of report</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion Plan &amp; conduct an educational session for in service nursing personnel</li> </ul>	<ul style="list-style-type: none"> <li>• Short Answer</li> <li>• Objective type</li> <li>• Assess the planning &amp; conduct of the educational session</li> </ul>
VI	10		Describe management of Nursing educational institutions	<b>Management of nursing educational institutions</b> <ul style="list-style-type: none"> <li>• Establishment of Nursing educational institution-INC norms and guidelines</li> <li>• Co-ordination with <ul style="list-style-type: none"> <li>- Regulatory bodies</li> <li>- Accreditation</li> <li>- Affiliation</li> </ul> </li> <li>• Philosophy / objectives <ul style="list-style-type: none"> <li>- Organization</li> <li>- Structure</li> <li>- Committees</li> <li>- Physical facilities</li> <li>- College/School</li> <li>- Hostel</li> <li>- Students</li> <li>- Selection</li> <li>- Admission</li> <li>- Guidance and Counseling</li> <li>- Maintaining discipline</li> <li>- Faculty and staff-Selection</li> <li>- Recruitment</li> <li>- Job description</li> <li>- Placement</li> <li>- Performance appraisal</li> <li>- Development and welfare</li> </ul> </li> <li>• Budgeting</li> <li>• Equipments and supplies: audio visual equipments, laboratory equipment, books, journals etc</li> <li>• Curriculum; Planning, implementation</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture Discussion</li> <li>• Role plays</li> <li>• Counseling session</li> <li>• Group Exercises</li> </ul>	<ul style="list-style-type: none"> <li>• Essay type</li> <li>• Short answers</li> </ul>

			and evaluation			
			<ul style="list-style-type: none"> <li>• Clinical facilities</li> <li>• Transport facilities</li> <li>• Institutional Records and reports administrative, faculty, staff and students</li> </ul>			
VII	10		<p>Describe the ethical and legal responsibilities of a Professional nurse.</p> <p>Explain the nursing Practice standards</p>	<p><b>Nursing as a profession:</b></p> <ul style="list-style-type: none"> <li>• Philosophy; nursing practice <ul style="list-style-type: none"> <li>- Aims and objectives</li> <li>- Characteristics of a professional nurse</li> <li>- Regulatory bodies; INC. SNC Acts;- constitution, functions</li> <li>- Current trends and issues in Nursing</li> </ul> </li> <li>• Professional ethics <ul style="list-style-type: none"> <li>- Code of ethics; INC,</li> <li>-Code of Professional conduct; INC,ICN</li> </ul> </li> <li>• Practice standards for Nursing; INC</li> <li>• Consumer protection act</li> <li>• Legal Aspects in Nursing <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> </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>• Short Answers</li> <li>• Assessment of critical incidents</li> </ul>
VIII	3		<p>Explain the various opportunities for professional advancement</p>	<p><b>Professional Advancement:</b></p> <ul style="list-style-type: none"> <li>• Continuing education</li> <li>• Career Opportunities</li> <li>• Collective bargaining</li> <li>• Membership with Professional organizations; 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</li> <li>• 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>• Short answers</li> </ul>

### Books list

#### Prescribed Books:

S.No	Prescribed Author	Title	Publisher
1.	Goddard N.A	Principles of Administration applied to Nursing service	
2.	Jean Barrett	Ward Management and teaching	Konark
3.	Marriner J Ann	Guide to Nursing Management and Leadership	Mosby

#### Reference Books:

S.No	Prescribed Author	Title	Publisher
1	Rowland & Rowland	Nursing Administration Handbook	
2.	Malealm	Hospital Organization and Management	
3.	Alexander	Nursing service Administration	
4.	Stone Sandra et al	Management for nurses	
5.	Patel	Nursing administration : A system approach	
6	Gillies D.A	Nursing Management : A system approach	W.B. Sanders
7.	Heidgarken	Teaching and learning in schools of Nursing principles and methods	Konark
8.	Grant Colin	Hospital Management	
9	TNAI	Nursing Administration and Management	