



ALL INDIA INSTITUTE OF MEDICAL SCIENCES

CURRICULUM & REGULATIONS

FOR

B.Sc. (Hons) Nursing

College of Nursing

**All India Institute of Medical Sciences
Bhubaneswar**

Revised Scheme - 2021

CONTENTS

S. No	Contents	Pg. No.
1.	Aim & Objectives	1
2.	Admission Requirements	2
3.	Course of Instruction	3
4.	Scheme of Examination	6
5.	Anatomy	10
6.	Physiology	14
7.	Nutrition	18
8.	Biochemistry	22
9.	Nursing Foundations	27
10.	Psychology	45
11.	English	48
12.	Computers & Nursing Informatics	49
13.	Microbiology	51
14.	Medical Surgical Nursing–I	69
15.	Medical Surgical Nursing–I Practical	79
16.	Pharmacology	58
17.	Pathology & Genetics	63
18.	Community Health Nursing–I	84
19.	Sociology	90
20.	Medical Surgical Nursing (Including Geriatrics) –II	94
21.	Medical Surgical Nursing (Including Geriatrics) – II Practical	102
22.	Child Health Nursing	105
23.	Child Health Nursing– Practical	110
24.	Mental Health Nursing	112
25.	Mental Health Nursing– Practical	119
26.	Midwifery & Obstetrical Nursing	121
27.	Midwifery & Obstetrical Nursing– Practical	132
28.	Communication & Educational Technology	136
29.	Community Health Nursing- II	141
30.	Community Health Nursing– II Practical	147
31.	Nursing Research & Statistics	149
32.	Nursing Management	153
33.	Integrated Practice	159

AIM

The aim of the undergraduate nursing program is to

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

Objectives

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

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

Admission Requirements

1. The minimum age for admission shall be 17 years on or before 31st December of the year of admission.
2. The minimum educational requirements shall be the passing of:

Has passed the 12th class under the 10+2 scheme/Senior School Certificate Examination or Intermediate Science or an equivalent examination from a recognized University/ Board of any Indian State with English, Physics, Chemistry and Biology with 55% for Gen/OBC (50% in case of SC's/ST's categories) in aggregate in English, Physics, Chemistry and Biology.

3. Candidate shall be medically fit.

Entrance / Selection test

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

Duration

- **B.Sc. (Hons) Nursing** course shall be four years

Total student intake:

- B. Sc. (Hons) Nursing = 75 seats

Medium of Instruction

The medium of instruction shall be English only

Award of degree

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

Satisfactorily completed the full period of training and passed all examinations

Academic session

- The academic session will be of annual system spanning 52 weeks including exams and vacations.

Vacation

The students shall be given vacation of total 6 weeks in an academic session as per institutional annual academic calendar, subject to approval of competent authority.

B.Sc. (Hons) NURSING

COURSE OF INSTRUCTION

FIRST YEAR

Sr. No	Subject	Theory Hours	Practical / Clinical Hours	Other Hours
1.	Anatomy including genetics			
	• Anatomy	50	10	
	• Genetics	20		
2.	Physiology	50	10	
3.	Nutrition & Biochemistry			
	• Nutrition	40	20	
	• Biochemistry	30	10	
4.	Microbiology	45	15	
5.	Nursing Foundations	270	Lab: 200 & Clinical: 480	
6.	Psychosocial Nursing			
	• Introduction to Psychology	50		
	• Introduction to Sociology	50		
7.	Communicative English	40		
8.	Computers & Nursing Informatics	30	30	
9.	Hindi */ <i>Regional language</i>	30		
10.	Library work/self-study			50
11.	Co-curricular activities			50
	Total Hours	705	775	100
	Total hours=1580 Hrs			

* Optional subject

SECOND YEAR

Sr. No	Subject	Theory (In Hours)	Practical / Clinical (In Hours)	In Hours
1.	Pharmacology & Pathology			
	• Pharmacology	60		
	• Pathology	40		
2.	Medical Surgical Nursing – I	210	960	
3.	Community Health Nursing – I	100	140	
4.	Communication and Education technology	60	30	
5.	Library work/Self study			50
6.	Co-curricular activities			35
	Total Hours	470	1130	85
	Total hours=1685 Hrs			

THIRD YEAR

Sr.	Subject	Theory	Practical / Clinical	In Hours
-----	---------	--------	----------------------	----------

No		(In Hours)	(In hours)	
1.	Medical Surgical Nursing – II	110	470	
2.	Child Health Nursing	90	415	
3.	Mental Health Nursing	90	415	
4.	Nursing Research & Statistics	45	100 (a group research project)	
5.	Library work/Self study			
6.	Co-curricular activities			
	Total Hours	335	1400	
	Total hours=1735 Hrs			

FOURTH YEAR

Sr. No	Subject	Theory (In Hours)	Practical / Clinical (In Hours)
1.	Obstetrical & Gynaecological Nursing including Midwifery	120	Lab: 80, Clinical: 600
2.	Community Health Nursing - II	110	375
3.	Nursing Management	60	100
	Total Hours	290	1155
	Total hours= 1445 Hrs		

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

B.Sc. (Hons) NURSING
SCHEME OF EXAMINATION

B.Sc. (Hons) Nursing First Year

Paper No.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
T/I	Anatomy including Genetics	3	25 (20+5)	75 (60+15)	100
T/II	Physiology	3	25	75	100
T/III	Nutrition & Biochemistry	3	25 (15+10)	75 (45+30)	100
T/IV	Microbiology	3	25	75	100
T/V	Nursing Foundations	3	25	75	100
T/VI	Psychosocial Nursing	3	25 (15+10)	75 (40+35)	100
T/VII	Communicative English*	2	10	40	50
T/VIII	Computers & Nursing Informatics*	2	10	40	50
T/IX	Hindi/ Regional Language (<i>Optional Subject</i>) *	2	10	40	50
Practical examination with Viva Voce					
P/I	Nursing Foundations		100	100	200
	Total		280	670	950

*College conducted examinations

B. Sc. (Hons) Nursing Second Year

Paper No.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
T/X	Pharmacology & Pathology	3	25 (15+10)	75 (45+30)	100
T/XI	Medical Surgical Nursing – I	3	25	75	100
T/XII	Community Health Nursing – I	3	25	75	100
T/XIII	Communication & Educational Technology	3	25	75	100
Practical examination with Viva Voce					
P/II	Medical Surgical Nursing – I		100	100	200
	Total		200	400	600

B.Sc. (Hons) Nursing Third Year

Paper No.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
T/XIV	Medical Surgical Nursing – II	3	25	75	100
T/XV	Child Health Nursing	3	25	75	100
T/XVI	Mental Health Nursing	3	25	75	100
T/XVII	Nursing Research & Statistics	3	25 (15+10)	75 (50+25)	100
Practical Examination with Viva Voce					
P/III	Medical Surgical Nursing – II		50	50	100
P/IV	Child Health Nursing		50	50	100
P/V	Mental Health Nursing		50	50	100
	Total		250	450	700

B. Sc. (Hons) Nursing Fourth Year

Paper No.	Subjects (Theory)	Duration of Exam	Internal Assessment	Final Exam	Total
T/XVIII	Obstetrical & Gynaecological Nursing including Midwifery	3	25	75	100
T/XIX	Community Health Nursing – II	3	25	75	100
T/XX	Nursing Management	3	25	75	100
Practical examination with Viva Voce					
P/VI	Obstetrical & Gynaecological Nursing including Midwifery		50	50	100
P/VII	Community Health Nursing-II		50	50	100
P/VIII	Exit OSCE		100	-	100
	Total		275	325	600

Rules of Examination:

1. The medium of examination shall be English only

2. **Anatomy including Genetics:** - Question paper will consist of Section A (Anatomy) of 60 marks and Section B (Genetics) of 15 marks.
3. **Nutrition and Biochemistry:** - Question paper will consist of Section-A Nutrition of 45 marks and Section B of Biochemistry of 30 marks.
4. **Introduction to psychosocial Nursing:** - Question paper will consist of Section-A (Psychology) of 45 marks and Section B (Sociology) of 30 marks
5. **Pharmacology and Pathology:** - Question paper will consist of Section-A (Pharmacology) of 45 Marks and Section B(Pathology) of 30 Marks.
6. **Nursing Research & Statistics:** -Question paper will consist of Section-A (Nursing Research) of 50 marks and Section B(Statistics) of 25 marks.
7. Theory & Practical exams (if applicable) for Communicative English, Computer & Nursing Informatics and regional language to be conducted as college exam and marks to be sent to the Dean (Examination)/ Examination Controller, AIIMS for inclusion in the Detail Marks Sheet.
8. For Computer & Nursing Informatics and Communicative English minimum pass marks shall be 40%. For Regional Language minimum pass marks shall be 35%
9. A candidate must have minimum 80% attendance in theory and practical (irrespective of the kind of absence) for appearing in examination. However, in extreme circumstances beyond the control of the candidate 10% waive off of attendance may be recommended by Principal to the Dean approved by the Director.
10. A candidate must have 100% attendance in each of the practical areas before award of Degree.
11. A candidate has to pass in theory and practical exam separately in both internal and external of each paper.
12. A candidate has to obtain 50% in IA and 50% in external (final) examination independently to be eligible for the declaration of passing.
13. If a candidate fails in the subject (either theory or practical) she has to appear in the examination for both theory and practical paper of that subject.
14. A student will not appear for the next level without clearing lower level examination.
15. The student has to pass in all mandatory modules and allotted percentage of marks will be included in the internal assessment of college /university exam. Minimum pass mark for the module is 50%.
16. **Exit Competency examination** will be conducted as an internal exam out of 100 marks, which will be included in the total aggregate marks
17. A candidate who fails in up to two papers, shall be admitted provisionally in the next year but she has to clear those papers before appearing in subsequent professional /final examinations. Provision of supplementary examinations should be made once in a year in between the session.
18. However, if candidate wish to re-attend the course of instruction of that year; she may avail this opportunity by paying the prescribed fee of that year. Furthermore, candidate may have a provision to improve the internal assessment marks of that year.

19. Internal assessment marks in both theory and practical of all should not exceed more than 75% on an average in a batch
20. The maximum period to complete the course successfully should not exceed eight years.
21. An examiner should be an Assistant Professor or above position in a College of Nursing with M.Sc. Nursing qualification in respective subject and minimum of 3 years of teaching experience after obtaining postgraduate nursing qualification at Collegiate/ University level.
22. Re-evaluation of theory paper is not permitted. However, re-totalling of the papers may be allowed if a candidate desire.
23. Declaration of class shall be done as follows:
 - a. A successful candidate obtaining 75% and more marks in the grand total aggregate in the first attempt shall be declared to have passed with **Distinction**.
 - b. A successful candidate obtaining 60% and more but less than 75% of marks in the grand total aggregate shall be declared to have passed with **First Class**.
 - c. A successful candidate obtaining 50% and more marks but less than 60% of marks in the grand total aggregate shall be declared pass with **Pass Class**.
 - d. Rank shall be declared on the basis of the aggregate marks (excluding college conducted exams) obtained by a candidate in the Annual Examination subjects of the course. Only those candidates who have passed all the subjects in all examination in the first attempt shall be eligible for the award of **Rank**. Meritorious candidates will be awarded medals as per Institute Policy.
24. Students need to fulfil practical/ clinical experience requirements specified for each subject as per guidelines for B.Sc. (Hons) Nursing within the stipulated time period in a prescribed log book.
25. Maximum number of candidates for all practical examination should not exceed 25 per day.
26. All practical examinations must be held in the respective clinical areas.
27. Internal and External Examiner should jointly conduct practical examination of each student.

B.Sc. (Hons) NURSING I YEAR

RS-1 Anatomy Including Genetics

Section A: Anatomy

Placement: First year

Time: Theory – 50 Hrs

Practical- 10 Hrs

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
T/I	Anatomy including Genetics	25 (20+5)	75(60+15)	100

Scheme of Examination (Theory / Written)

Paper	Subject	Duration	Maximum Marks (Final Exam)
T/I Section – A	Anatomy	2 hours	60

Question Paper Pattern

Essay type question:3X10= 30marks
Marks Short Notes:4 x 5 = 20 Marks
Short Answer Questions: 5 x 2 = 10 Marks

Note:

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

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

COMPETENCIES:

On completion of the course, the students will be able to:

1. Describe anatomical terms
2. Explain the general and microscopic structure of each system of the body
3. Identify relative positions of the major body organs as well as their general anatomic locations.
4. Explore the effect of alterations in structure.
5. Apply knowledge of anatomic structures to analyse clinical situations and therapeutic applications.
6. Apply the knowledge of anatomic structures in performing nursing procedures/skills.

Unit no	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	1		Introduce the subjects, sub-divisions & descriptive terms used in Anatomy	<p>Introduction</p> <p>Must Know</p> <p>-Introduction to anatomical terms relative to position / surfaces anterior, ventral, Posterior dorsal, superior, inferior, median, lateral, proximal, distal, superficial, deep, prone, supine, palmar and Plantar</p> <ul style="list-style-type: none"> Anatomical planes (axial/transverse/ horizontal, sagittal/vertical plane and coronal/frontal/oblique plane) Movements (flexion, extension, abduction, adduction, medial rotation, lateral rotation, inversion, eversion, supination) 	<ul style="list-style-type: none"> Lecture cum discussion Explain using microscopic slides, skeleton, torso and other A.V. aids. 	<ul style="list-style-type: none"> Short answer questions
II	4	1	Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands.	<p>Introduction to Anatomical terms organization of the human body</p> <p>Must Know • Tissue- definition, types, characteristics, classification, location functions and formation.</p> <p>Membrane, glands classification and structure</p> <p>-classification, location, functions and formation</p>	<ul style="list-style-type: none"> Lecture cum discussion Explain using microscopic slides, skeleton, torso and A.V. Aids. Demonstrate cells, types of tissues membranes and glands. Record book 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				<ul style="list-style-type: none"> • Hyaline, fibro cartilage, elastic cartilage • Features of skeletal, smooth and cardiac muscle <p>Desirable to Know</p> <p>Human Cell Structure, Alterations in disease</p> <p>Nice to know –Application & Implications in Nursing</p>		
III	3	2	Describe the structure and function of bones and joints.	<p>The Skeletal System</p> <p>Must Know</p> <p>Bones- Types, structure, growth and ossification</p> <ul style="list-style-type: none"> • Axial and Appendicular skeleton • Joints- classification, major joints and structure <p>Desirable to Know</p> <p>-Description of bones & their blood supply</p> <p>Nice to know</p> <p>-Alterations in disease</p> <p>-Application & Implications in Nursing</p>	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, skeleton, loose bones & joints. • Record book. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
IV	3	2	Describe the structure and function of muscles.	<p>The muscular System</p> <p>Must Know the Muscular System</p> <p>-Types and structure of Muscles Muscle groups- muscles of the head, neck, thorax, abdomen, pelvis, upper limb and lower limbs</p> <ul style="list-style-type: none"> • Principal muscles- deltoid, biceps, triceps, respiratory, abdominal, pelvic floor, 	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using models, films & other A.V. aids. • Demonstrate • Record book. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

				<p>pelvic floor muscles, gluteal muscles and vastus lateralis</p> <p>Desirable to Know</p> <ul style="list-style-type: none"> - Muscles groups <p>Applications and implications in nursing</p> <p>Nice to know</p> <ul style="list-style-type: none"> - Alterations in disease 		
V	4	1	Describe the structure and function of nervous system.	<p>The Nervous System</p> <p>Must Know</p> <ul style="list-style-type: none"> -CNS, ANS and PNS (Central, autonomic and peripheral) • Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves, functional areas of cerebral cortex, cerebellum, meninges and blood supply • Ventricular system formation, circulation, and drainage <p>Desirable to Know</p> <ul style="list-style-type: none"> -Application & Implications in to Nursing <p>Nice to know</p> <ul style="list-style-type: none"> - Alterations in disease 	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. aids. • Record book. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
VI	3		Describe the structure and function of sensory organs.	<p>The sensory Organs</p> <p>Must Know</p> <p>Eye, Ear, nose, Tongue</p> <p>Desirable to Know</p> <ul style="list-style-type: none"> -Application & 	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

				Implications in to Nursing Nice to know - Alterations in disease	aids. • Record book	
VII	4	2	Describe the structure and function of circulatory system.	Circulatory System Must Know Structure of heart Blood vessels - Arterial & Venous System, Structure of Heart Circulation: systemic, pulmonary, portal and coronary Desirable to Know Application & Implications in to Nursing Nice to know Alterations in disease	• Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. Aids. • Record book	• Essay type • Short notes • Short answer questions
VIII	2		Describe the structure and function of lymphatic system.	Lymphatic System Must Know Thymus gland, Lymph nodes Lymphatic nodules or tonsil, Lymphatic vessels & lymph, Lymphatic tissues Spleen Desirable to Know Application & Implications in to Nursing Nice to know- Alterations in disease	• Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. Aids • Record book	• Short notes • Short answer questions
IX	6	1	Describe the structure and function of respiratory system	Respiratory System Must Know Structure of the organs of respiration Nasal Cavity, Trachea,	• Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V.	• Essay type • Short notes • Short answer questions

				<p>larynx</p> <p>Bronchi & Bronchioles</p> <p>Lungs</p> <p>Muscles of respiration: Intercostal and Diaphragm Mediastinum</p> <p>Desirable to Know</p> <p>Application & Implications in to Nursing</p> <p>Nice to know - Alterations in disease</p>	<p>Aids.</p> <ul style="list-style-type: none"> Record book 	
X	6	1	Describe the structure and function of digestive system.	<p>The Digestive system</p> <p>Must Know</p> <p>Structure of alimentary tract and accessory organs of digestion</p> <ul style="list-style-type: none"> Oral cavity, salivary glands Oesophagus Stomach, Liver & Gall bladder Pancreas <p>Small Intestine & Large Intestine</p> <p>Desirable to Know</p> <p>Application & Implications in to Nursing</p> <p>Nice to know- Alterations in disease</p>	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, models, slides, specimens & other A. V. Aids. Record book 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions
XI	4		Describe the structure and function of excretory system	<p>The Excretory System</p> <p>Must Know</p> <ul style="list-style-type: none"> Structure of organs of urinary system: Kidneys, ureters, urinary Bladder, Urethra <p>Desirable to Know</p> <p>Application & Implications in to Nursing</p>	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, models, slides, specimens & other A. V. Aids. Record book 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				Nice to know Alterations in disease		
XII	4		Describe the structure and function of endocrine system	The Endocrine System Must Know The Endocrine system Structure of -Pituitary, - Pancreas - Thyroid, parathyroid, Adrenal glands Desirable to Know Application & Implications in to Nursing Nice to know Alterations in disease	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. Aids. • Record book 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
XIII	5		Describe the structure and function of Reproductive system.	Reproductive System Must Know The Reproductive system -Structure of female reproductive Organs - External genitalia - Uterus - Fallopian tube - Ovaries -Structure of male reproductive Organs - Testis - Prostate gland - Seminal vesicle - Penis - Structure of breast Desirable to Know - Application & Implications in to Nursing Nice to know Introduction to embryology	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. Aids. • Record book 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
XIV	1		Describe the structure and function of Integumentary system	The Integumentary system -Structure of skin: Epidermis, Dermis -Appendages of the skin o Hair, Nails, Sebaceous & Sweat glands	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimens & other A. V. Aids. • Record book 	Short answer questions

				Desirable to Know - Application & Implications in to Nursing Nice to know Alterations in disease,		
--	--	--	--	--	--	--

Lab Practical

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

Section– B: Genetics

Placement: First Year

Time: Theory – 20 Hours

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

Scheme of Examination (Theory/Written)

Paper No	Subject	Duration	Maximum Marks (Final Exam)
T/I Section- B	Genetics	1 hour	15

Question Paper Pattern

Short Notes : 2 x 5 = 10 Marks
Short Answer type : 2.5x 2 = 5 Marks

Note:

Section –B – Genetics: It will be set and evaluated by the subject expert, i.e. an examiner with post graduate degree in Anatomy with a minimum 3 years of collegiate / University level teaching experience.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Describe the Genetics terms
2. Demonstrates skill in conducting genetic counselling.
3. Identifies genetic disorders among adolescents & adults by observing clinical signs
4. Apply knowledge of genetic alterations to analyse clinical situations and therapeutic applications.
5. Recognizes gene therapy & its uses in management of diseases.
6. Apply the knowledge in performing nursing procedures/skills and counselling services

Unit no	Hours	Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	4	Explain nature, principles & perspectives of heredity	<p>Introduction</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> ▪ Concept and basics of genetics ▪ Practical application of genetics in Nursing ▪ Characteristics and structure of genes ▪ Chromosomes – sex determination ▪ Chromosomal aberrations, Patterns 	<ul style="list-style-type: none"> • Lecture • Discussion • Seminar 	<ul style="list-style-type: none"> • Short notes • Short answers

			<p>of inheritance</p> <ul style="list-style-type: none"> -Mendelian theory of inheritance -Multiple alleles and blood groups --Sex linked inheritance -Mechanism of inheritance -Errors in transmission (Mutations) <p><u>Desirable to know</u></p> <p>Review of cellular division mitosis and meiosis</p> <p><u>Nice to know</u></p> <p>Impact of genetic abnormal conditions on families</p>		
II	4	Explain maternal, prenatal & genetic influences on development of defects & diseases	<p>Maternal, prenatal and genetics</p> <ul style="list-style-type: none"> ▪ Conditions affecting the mother: genetics and infections ▪ Consanguinity atopy ▪ Maternal drug therapy ▪ Prenatal testing and diagnosis ▪ Spontaneous abortion ▪ Neural tube defects <p>Down syndrome (Trisomy 21)</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> -Prenatal nutrition and food allergies <ul style="list-style-type: none"> - Effects of radiation, drugs and chemicals <p><u>Nice to know</u></p> <ul style="list-style-type: none"> - Maternal age -Infertility 	<ul style="list-style-type: none"> • Lecture • Discussion • Seminar 	<ul style="list-style-type: none"> • Short notes • Short answers
III	4	Explain the screening methods for genetic defects & diseases in neonates & children.	<p>Genetic testing in the neonates and children</p> <p>Must Know</p> <ul style="list-style-type: none"> ▪ Meaning & purposes ▪ New born screening ▪ Genetic testing and screening in children <p>-Screening for:</p> <ul style="list-style-type: none"> - Congenital abnormalities 	<ul style="list-style-type: none"> • Lecture • Discussion • Seminar 	<ul style="list-style-type: none"> • Short notes • Short answers

			- Developmental delay Dysmorphism		
IV	5	Identify genetic disorders in adolescents & adults.	<p>Genetic conditions of adolescents and adults</p> <ul style="list-style-type: none"> ▪ Cancer genetics – familial cancer ▪ Inborn errors of metabolism ▪ Genetic haemochromatosis ▪ Huntington’s disease ▪ Mental illness ▪ Therapeutic approach for genetic disorders <p>Nursing management in genetic disorders</p> <p>Desirable to Know</p> <p>Blood group alleles and haematological disorder</p> <p>Nice to Know</p> <p>Therapeutic approach for genetic disorders</p>	<ul style="list-style-type: none"> • Lecture • Discussion • Seminar 	<ul style="list-style-type: none"> • Short notes • Short answers
V	3	Describe the role of nurse in genetic services & counselling.	<p>Services related to Genetics</p> <ul style="list-style-type: none"> ▪ Genetic testing ▪ Human genome project ▪ Gene therapy ▪ The Eugenics movement ▪ Genetic Counselling <p>Role of nurse in genetic counselling</p>	<ul style="list-style-type: none"> • Lecture • Discussion • Seminar 	<ul style="list-style-type: none"> • Short notes • Short answers

RS-1 Physiology

Placement: First year

**Time: Theory – 50 Hrs
Practical- 10 Hrs.**

Scheme of Examination (Theory/Written)

Paper No	Subject	Duration	Maximum Marks (Final Exam)
T/II	Physiology	3 hours	75

Question Paper Pattern

Essay type question	: 3 x 10 = 30 Marks
Marks Short Notes	: 5 x 5 = 25 Marks
Short Answer Questions	: 10 x 2 = 20 Marks

Note:

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

Course Description:

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

Competencies

1. Develop understanding of the normal functioning of various organ systems of the body
2. Identify the relative contribution of each organ system towards maintenance of homeostasis
3. Describe the effect of alterations in functions
4. Apply knowledge of physiological basis to analyse clinical situations and therapeutic applications

Unit no	Hours		Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	3		Describe the physiology of cell, tissues, membranes & glands	<p>Cell, tissue, membrane and glands Must know: Tissue- formation and repair Membranes & glands – Functions Desirable to know: Alterations in diseases Nice to know : Applications and implications in nursing (Applied physiology)</p>	Lecture cum discussion	<ul style="list-style-type: none"> • Short notes • Short answer questions
II	3	2	Describe the bone formation & growth and movements of skeletal system.	<p>Skeletal System Must know: Bone formation & growth Bones – Functions and movements of bones of axial and appendicular skeleton and bone healing Joints and joint movement Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology).</p>	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, films & other A.V. aids. • Demonstration of joint movements. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
III	3	1	Describe the muscle movements and tone and demonstrate muscle contraction & tone.	<p>The Muscular System Must know: Muscular movements, Muscle tone, physiology of muscle contraction, levels and maintenance of posture Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)</p>	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, slides, specimen, films & other A.V. aids. • Demonstration of muscle movements, tone & contraction. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

IV	11	2	<ul style="list-style-type: none"> • Describe the physiology of nerve stimulus, reflexes, brain, cranial & spinal nerves. • Describe the physiology of Endocrine glands. <p>Demonstrate reflex action & stimulus.</p>	<p>Control System</p> <p>A. Nervous System</p> <p>Must know: Functions of Neuroglia & neurons Stimulus & nerve-impulse-definitions and mechanism Functions of brain, spinal cord, cranial and spinal nerves Cerebrospinal fluid-composition, circulation and function Reflex arc, Reflex action and reflexes Thermoregulation-Maintaining body temperature</p> <p>Desirable to know: Autonomic functions – Pain: somatic, visceral Autonomic learning and Biofeedback Alterations in disease Applications and implications in nursing (Applied physiology)</p> <p>B. The Endocrine System</p> <p>Must know: Functions of Pituitary, pineal body, Thyroid, Parathyroid, Pancreas, Suprarenal, ovaries & Testes Functions of Thymus</p> <p>Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)</p> <p>Nice to know: Functions</p>	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, models, films & other A.V. aids. • Demonstrate nerve stimulus, reflex action & reflexes 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
----	----	---	---	---	--	---

				of placenta		
V	7	4	<ul style="list-style-type: none"> Describe the physiology of blood & functions of heart. Demonstrate blood cell count, coagulation, grouping, Hb, B.P. Pulse monitoring 	<p>Blood & Circulatory System</p> <p>Must know: Blood formation, composition, blood groups, blood coagulation</p> <p>Haemoglobin: Structure, Synthesis and breakdown</p> <p>Variation of molecules, estimation</p> <p>Functions of Heart, Conduction, Cardiac cycle circulation</p> <p>–</p> <p>Principles, Control, factors influencing BP and pulse.</p> <p>Normal ECG</p> <p>Desirable to know:</p> <p>Alterations in diseases</p> <p>Applications and implications In nursing (Applied physiology)</p>	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, films & A.V. aids. Demonstration of blood cell count, coagulation grouping, Hb. Estimation, Heart conduction system. Measurement of pulse & BP. Identification of normal ECG pattern 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions
VI	5	1	<ul style="list-style-type: none"> Describe the physiology and mechanism of respiration. Demonstrates spirometry. 	<p>The Respiratory System</p> <p>Must know:</p> <p>Functions of respiratory organs Physiology of respiration</p> <p>Pulmonary ventilation, Volume</p> <p>Mechanism of respiration</p> <p>Gaseous exchange in lungs</p> <p>Carriage of oxygen & carbon dioxide</p> <p>Exchange of gases in tissues</p> <p>Desirable to know:</p> <p>Regulation of respiration.</p>	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, films & other A.V. aids. Demonstration of spirometry 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

			Alterations in disease Applications and implications in nursing (Applied physiology) Nice to know: Vocal communication o Mechanism of sound production o Neural control of sound production o Speaking o Dysarthria		
VII	5	<ul style="list-style-type: none"> Describe the physiology of Digestive system. 	The Digestive System Must know: Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestine, Large intestine, Absorption of food. Functions of liver, gall bladder and pancreas Metabolism of carbohydrates, proteins and fats Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, films & other A.V. aids. 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions
VIII	4	Describe the physiology of excretory system.	The Excretory System Must know: Functions of Kidneys, ureters, urinary bladder & urethra Composition of urine Mechanism of urine formation Function of skin Regulation of body temperature	<ul style="list-style-type: none"> Lecture cum discussion Explain using charts, films & other A.V. aids. 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				Fluid and electrolyte balance. Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)		
IX	3		Describe the physiology of sensory organs.	The Sensory Organs Must know: Functions of skin, eye, ear, nose, tongue Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, films & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
X	4		Describe the physiology of male & female reproductive system.	The Reproductive System Must know: Reproduction of cells – DNA, Mitosis, meiosis Spermatogenesis, oogenesis. Functions of female reproductive organs; functions of breast, Female sexual cycle. Functions of male reproductive. organs, Male function in reproduction, Male fertility system Desirable to know: Alterations in disease Applications and implications in nursing (Applied physiology)	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, films, models, specimens & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
XI	2		Describe the physiology of lymphatic & immunologic al	Defence: Lymphatic and Immunological Must know: Circulation of lymph	<ul style="list-style-type: none"> • Lecture cum discussion • Explain using charts, films & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			system.	Immunity Formation of T- cells and B Cells Antibodies Desirable to know: <ul style="list-style-type: none"> • Types of Immune response • Antigens • Cytokines 		
--	--	--	---------	--	--	--

Lab Practical

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

RS-1 NUTRITION & BIOCHEMISTRY

Section A: Nutrition

Placement: First year

Time: Theory- 40Hrs
Practical- 20Hrs

Paper No	Subject	Duration	Internal Assessment	Final Exam	Total Marks
T/III	Nutrition & Biochemistry	3 hrs	25(15+10)	75(45+30)	100

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

Section – A: Nutrition

Placement: First Year

Time: Theory – 40 Hrs

Practical-20 Hrs

Scheme of Examination (Theory / Written)

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

Question Paper Pattern

Essay type question : 2 x 10 = 20 Marks
Short Notes : 5 x 3 = 15 Marks
Short Answer Questions : 5 x 2 = 10 Marks

Note:

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

Competencies

The student should be able to perform the following skills independently:

1. Identify the importance of nutrition in health and wellness.
2. Identify major food sources & functions of carbohydrate, fat, protein, vitamins & minerals.
3. Label the different foods & its medicinal value.
4. Describe the food standards & Act regulating food hygiene & prevention of food Adulteration act (PFA Act)
5. Recognize manifestations of macro & micronutrient deficiency & excess that could compromise health.
6. Assess nutritional status by anthropometric measurement and dietary survey.
7. Apply nutrient and dietary modifications in caring patients.
8. Calculate and compare the Calorie and BMR of individuals with recommended Allowances.
9. Calculate the normal fluid and electrolyte requirements by using formulas.
10. Explain the principles and practices of Nutrition and Dietetics.
11. Identify nutritional needs of different age groups and plan a balanced diet for them.
12. Identify the dietary principles for different diseases.
13. Plan and prepare therapeutic diet for patients suffering from various disease Conditions.
14. Prepare meals and simple beverages and different types of food by using different cooking methods and cookery rules.
15. Prepare budgeting & menu planning
16. List out the importance of special feeding techniques.
17. Follow and demonstrate the safe food handling techniques

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

Unit no	Time	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment
---------	------	---------------------	---------	------------------------------	------------

					Methods	
	T H	PR				
I	7		<ul style="list-style-type: none"> ❖ Describe the relationship between nutrition & Health. ❖ Describe the role of nurse in assessment of nutritional status & nutrition education 	<ul style="list-style-type: none"> ❖ Must know Introduction to Food & Nutrition <ul style="list-style-type: none"> • Classification of food, Food groups • Role of nutrition in maintaining health • Factors affecting food and nutrition • Assessment of nutritional status ❖ Desirable to know • Role of food & its Medicinal value • Elements of nutrition: Macro & micro • National nutritional problems • National nutritional programme: <ul style="list-style-type: none"> - Vitamin A deficiency programme - National iodine deficiency disorders (IDD) programme - Mid – day meal programme - Integrated child development scheme (ICDS) • Nice to Know • Nutrition: History & Concept • Calorie, BMR • National & International Agencies Working towards food/nutrition- NIPCCD, CARE, FAO, NIN & CFTRI (Central 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts, film shows. • Panel Discussion. • Exercise • Demonstration of Assessment of nutritional status. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Objective type

				food technology & research institute) • Role of nurse in nutrition education		
II	2		Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates	Carbohydrates ❖ Must know Carbohydrate <ul style="list-style-type: none"> • Classification & Caloric value • Recommended daily allowances • Dietary sources & Functions ❖ Desirable to know <ul style="list-style-type: none"> • Digestion, absorption and storage, metabolism of carbohydrates. Nice to know <ul style="list-style-type: none"> • Malnutrition: Deficiencies and over consumption 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. 	<ul style="list-style-type: none"> • Short notes • Short answer questions • Objective type
III	2		Describe the classification, functions, sources and recommended daily allowances (RDA) of fats.	Fats ❖ Must Know <ul style="list-style-type: none"> • Classification & Caloric value • Recommended daily allowances • Dietary sources & Functions ❖ Desirable to know <ul style="list-style-type: none"> • Digestion, absorption and storage metabolism ❖ Nice to know <ul style="list-style-type: none"> • Malnutrition: Deficiencies and overconsumption 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. 	<ul style="list-style-type: none"> • Short notes • Short answer questions • Objective type
IV	2		Describe the classification, the	Proteins	<ul style="list-style-type: none"> • Lecture discussion 	<ul style="list-style-type: none"> • Short notes

		functions, sources and recommended daily allowances (RDA) of protein	<ul style="list-style-type: none"> ❖ Must Know • Classification & Calorific value • Recommended daily allowances • Dietary sources & Functions ❖ Desirable to know ❖ Digestion, absorption, metabolism and storage ❖ Nice to know • Malnutrition: Deficiencies and over consumption 	<ul style="list-style-type: none"> • Explaining using charts. 	<ul style="list-style-type: none"> • Short answer questions • Objective type
V	4	Describe the classification, functions, sources and recommended daily allowances (RDA) of vitamins	Vitamins <ul style="list-style-type: none"> ❖ Must Know • Classification • Recommended daily allowances • Dietary sources & Functions ❖ Desirable to know • Absorption, synthesis, metabolism storage and excretion ❖ Nice to know • Deficiencies, Hypervitaminosis 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. • Assignment on comprehensive table for RDA deficiencies and over nutrition. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Objective type
VI	4	Describe the classification, functions, sources and recommended daily allowances (RDA) of minerals	Minerals <ul style="list-style-type: none"> ❖ Must Know Classification <ul style="list-style-type: none"> • Recommended daily allowances • Dietary sources & Functions ❖ Desirable To know ❖ Absorption, synthesis, metabolism storage and excretion ❖ Nice to know • Deficiencies • Overconsumption and toxicity 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Objective type
VII	3	Describe the sources, functions & requirements Water & Electrolytes.	Water & Electrolytes <ul style="list-style-type: none"> ❖ Must Know • Water: Daily requirement, regulation of water metabolism and distribution of body 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. 	<ul style="list-style-type: none"> • Short notes • Short answer questions

				<p>water</p> <ul style="list-style-type: none"> • Electrolytes: Types, sources, Functions • Maintenance of fluid & electrolyte balance <p>❖ Desirable to know</p> <ul style="list-style-type: none"> • Safe and wholesome water • Water quality criteria and standards • Electrolyte imbalances <p>❖ Nice to Know</p> <ul style="list-style-type: none"> • Over hydration, dehydration and water intoxication 		<ul style="list-style-type: none"> • Objective type
VIII	5	15	Describe the Cookery rules & preservation of nutrients	<p>Cookery rules & preservation of nutrients</p> <p>❖ Must Know</p> <ul style="list-style-type: none"> • Principles and methods of cooking & serving. • Preservation of nutrients during cooking • Safe food handling-toxicity • Storage of food • Food preservation & its principles <p>❖ Desired to Know</p> <ul style="list-style-type: none"> • Food Additives & its principles • Food Adulteration & Prevention of food adulteration act <p>• Preparation of simple beverages & different types of food</p> <p>❖ Nice to Know</p> <ul style="list-style-type: none"> • Food Standards 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice Session 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer question • Objective type • Assessment of Practice Sessions

IX	6	5	Describe and plan balanced diet for different categories of people	<p>❖ Must Know Normal Nutrition/ Balanced diet</p> <ul style="list-style-type: none"> • Elements & Recommended dietary allowances • Nutritive value of food • Calculation of balanced diets for the below mentioned groups <p>❖ Desirable to Know</p> <ul style="list-style-type: none"> • Nutrition during Adulthood • Nutrition during Pregnancy and Lactation • Nutrition during Infancy • Nutrition during Childhood and Adolescence • Nutrition during Elderly <p>❖ Nice to Know</p> <ul style="list-style-type: none"> • Planning menu • Budgeting of food 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. • Practice Session • Meal Planning 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer question • Objective type • Exercise on Menu Planning
X	5		Describe and plan therapeutic diet	<p>❖ Must Know Therapeutic Nutrition</p> <ul style="list-style-type: none"> • Planning and Preparation of hospital diets • Therapeutic modification of the normal diet during:- • Liver disease • Cardiovascular disease • Diabetes Mellitus • Renal Disease • Gastro-Intestinal Disease <p>❖ Desirable to know</p> <ul style="list-style-type: none"> • Nutrition and weight management • Drug and nutrient interaction 	<ul style="list-style-type: none"> • Lecture discussion • Explaining using charts. • Therapeutic meal planning and demonstration of therapeutic diets. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Objective type

Lab practical:

- Calculation of BMR
- Demonstration of food handling
- Plan & preparation of diets for different categories of person
- Preparation of therapeutic diet

Section B: Biochemistry

Placement: First year

Time: Theory-30Hr

Practical-10Hr

Scheme of Examination (Theory/Written)

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

Question Paper Pattern

Essay type question	: 2 x 6 = 12 Marks
Short Notes	: 2 x 5 = 10 Marks
Short answer type	: 2 X 4 =8 Marks

Note:

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

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

SPECIFIC LEARNING OBJECTIVES

Competencies: On completion of the course, the students will be able to

1. Discuss the structure and function of cell membrane by using microscopic technique.
2. Explain the metabolism of carbohydrate and its alteration.
3. Explain the composition and metabolism of lipids and its alteration.
4. Explain nature, metabolism of amino acid & classification of protein.
5. Explain clinical enzymology of various disease conditions.
6. Identify Vitamin deficiency diseases by seeing clinical findings.
7. Describe the various investigation and their interpretations.
8. Explain different function tests and interpret the findings.
9. Illustrate the immunochemistry.
10. Demonstrates skills in collecting samples for different biochemical investigation.
11. Interprets findings of biochemical tests; blood glucose, protein, cholesterol, LFT, RFT, TFT.
12. Correlate mechanism of atherosclerosis among patient with deranged lipid profile.
13. Analyses fluid & electrolyte imbalance by observing clinical sign & symptoms.
14. Explain mechanism of atherosclerosis development.
15. Interprets and analyse ABG findings, ELISA, HLA typing.

Lab procedure Competencies: The student should be able to perform the following skills independently

1. Demonstrates skills in collecting samples for different biochemical investigation.
2. Identify techniques of microscopy.
3. Demonstration of various serological tests. Blood Glucose, proteins, Lipids.
4. Demonstration of various lab investigations
 - LFT
 - Electrolytes
 - Renal Function test (Urea Creatinine)
 - ELISA
 - HLA Typing
5. Collection, handling and transportation of specimens. (Lab)

Under supervision (Demonstration purpose)

1. Demonstration by use of microscope
2. Demonstration of ELISA & HLA typing
3. Perform RBS & urine testing.
4. Perform safe sample collection.
5. Performs urine stick test & Pregnancy kit test. (LAB)

Unit no	Hours		Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	2	1	<ul style="list-style-type: none"> • Describe the structure composition & function of cell. • Differentiate between prokaryote & Eukaryote cell. Identify techniques of microscopy Describe the structure & functions of cell membrane.	Introduction <u>Must Know</u> <ul style="list-style-type: none"> ▪ Introduction: Definition and significance of biochemistry and its relevance to nursing. ▪ structure and function of cell membrane ▪ Microscopy ▪ Fluid mosaic model -Transportation across cell membrane - Cell junction <u>Desirable to know</u> Differentiate between prokaryote and eukaryote cell PH and buffer <u>Nice to know</u>	<ul style="list-style-type: none"> • Lecture discussion using charts and slides. • Demonstrate use of microscope. 	<ul style="list-style-type: none"> • Short answer questions • Objective type

				Interprets ABG findings		
II	6	2	Explain the metabolism of carbohydrates.	<p>Composition and of metabolism of carbohydrates</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> ▪ Types, structure, composition and uses: -Monosaccharides, Disaccharides, Polysaccharides, Oligosaccharides ▪ Biochemical Importance ▪ Blood glucose estimation and its interpretations ▪ Metabolism <p><i>Pathways of glucose:</i></p> <ul style="list-style-type: none"> -Glycolysis - Gluconeogenesis: TCA cycle -Glycogen metabolism: glycogenesis & glycogenolysis -HMP shunt and its biological significance -Pentose phosphate Pathways ▪ -Regulation of blood glucose level ▪ Digestion and absorption of carbohydrate <p>Investigations of Diabetes Mellitus</p> <ul style="list-style-type: none"> ▪ OGTT: Indications, Procedure, Interpretation and types of GTT curve ▪ Mini GTT, 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration of blood glucose monitoring 	<ul style="list-style-type: none"> • Short answer questions • Objective type

				<p>extended GTT, GCT, IV GTT</p> <ul style="list-style-type: none"> ▪ HbA1c (Only definition) ▪ Hypoglycaemia- definition & causes <p><u>Desirable to know</u></p> <p>Glycogen metabolism</p> <p><u>Nice to know</u></p> <p>Glycosidic bonds with examples</p> <p>CHO in cell membrane</p> <p>Colour reaction of CHO</p>		
III	6	2	Explain the metabolism of lipids.	<p>Composition and metabolism of Lipids</p> <p><u>Must Know</u></p> <p>Fatty acid: Types, structure, composition and uses of fatty acids, prostaglandins, Metabolism of fatty acid</p> <ul style="list-style-type: none"> ▪ Triacylglycerols: structure, properties, function & metabolism. ▪ Cholesterol: Sources, Occurrence, distribution, -Cholesterol metabolism -Biosynthesis and its regulation -Bile salts and bilirubin -Vitamin D ▪ Steroid hormones ▪ Lipoproteins and their functions: -VLDLs, IDLs, LDLs and HDLs ▪ Digestion and absorption of lipids. ▪ Metabolism of Lipids <p>-Plasma lipids</p> <p>-Fate of fat after</p>	<ul style="list-style-type: none"> • Lecture discussion using charts. • Demonstration of laboratory test. 	<ul style="list-style-type: none"> • Short answer questions • Objective type

			<p>absorption</p> <p>-Sources of fat depot, -Relation of liver to fat metabolism, -Fatty liver- Lipotropic factors</p> <p><u>Desirable to know</u> Chemistry of lipids The Correlation mechanism of atherosclerosis among patient with deranged lipid profile. Reaction of lipids</p> <p><u>Nice to know</u> Prostaglandins derivative, biological importance, uses. Cholesterol estimation</p>		
IV	8	Explain the metabolism of amino acids and proteins.	<p>Composition and metabolism of Amino acids and proteins.</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> ▪ General Nature Classification ▪ Biological Importance ▪ functions ▪ Physical Properties –as colloids <p>Types, structure, composition and uses of Amino acids and proteins, Protein precipitants, Denaturation.</p> <ul style="list-style-type: none"> ▪ Metabolism of amino acids and proteins: -Amino acid Pool, Amino acid hormones, Essential amino acids, -Deamination, 	<ul style="list-style-type: none"> • Lecture discussion using charts • Demonstration of laboratory tests. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Objective type

			<p>Transamination, & glutamine formation.</p> <ul style="list-style-type: none"> ▪ Digestion & Absorption of Proteins. ▪ Metabolism of Nitrogen: Urea cycle ▪ Enzymes and co-enzymes <p>-Classification, Properties, factor influencing action of enzymes.</p> <p>-Classification & functions of co-enzymes.</p> <p>Kinetic theory of reaction</p> <p>-Enzyme inhibition</p> <p>-Diagnostic significance</p> <p>Clinical Enzymology</p> <p>Isoenzymes –</p> <p>Definition & properties</p> <ul style="list-style-type: none"> ▪ Enzymes of diagnostic importance in: <ul style="list-style-type: none"> ○ Liver Diseases- ALT, AST, ALP, GGT ○ Myocardial infarction-CK, cardiac troponins, AST, LDH ○ Muscle diseases- CK, Aldolase ○ Bone diseases-ALP <p>Prostate cancer-PSA, ACP</p> <p><u>Desirable to know</u></p> <p>Chemistry of amino acid</p> <p>Urea cycle</p> <p>Immunoglobulins- structure, types and functions</p>	
--	--	--	--	--

				<p>Appreciate critical role of amino acids in body processes</p> <p><u>Nice to know</u></p> <p>Plasma protein electrophoresis</p> <p>Buffering action of amino acids</p>		
V	2	1	<p>Explain the maintenance of acid base balance and its variations</p>	<p>Acid base balance and imbalance</p> <p><u>Must Know</u></p> <p>Acid base balance and imbalance.</p> <ul style="list-style-type: none"> ▪ pH - definition, normal value PH buffers <p>Regulation of blood pH – blood buffer, respiratory & renal.</p> <ul style="list-style-type: none"> ▪ ABG – normal values <p>Acid base disorders – types, definition & causes</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> ▪ Interprets ABG findings. <p>Analyses ELISA, HLA typing</p> <p><u>Nice to know</u></p> <p>Henderson-Hasselback's equation</p> <p>ABG – normal values</p>	<ul style="list-style-type: none"> • Lecture discussion using charts • Demonstration of laboratory tests. 	<ul style="list-style-type: none"> • Short answer questions • Objective type
VI	2		<p>Explain the chemistry and biological significance of nucleic acids</p>	<p>Nucleic acid</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> ▪ Nucleic acid: Chemistry of Nucleic acid <p>-Purines & Pyrimidine bases</p> <p>-Nucleotides and nucleosides</p> <p>-Nucleic Acids-DNA & RNAs</p> <p>-Biological</p>	<ul style="list-style-type: none"> • Lecture discussion using charts. • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer questions • Objective type

			<p>significance Investigations and their interpretations <u>Desirable to know</u> Hypouricemia Demonstrates skills in collecting samples for different biochemical investigation. <u>Nice to know</u> Pyrimidine synthesis and degradation</p>		
VII	4	4	<p>Describe immunochemistry.</p> <p>Immunochemistry & biochemical testing <u>Must Know</u></p> <ul style="list-style-type: none"> ▪ Immunochemistry: <ul style="list-style-type: none"> -Immune response -Structure and classification of Immunoglobins -Mechanism of antibody production -Antigens: HLA typing -Electrophoretic and Quantitative determination of Immunoglobins: ELISA etc. <p>Investigations and their interpretations. Sample, collection, transport/preservation</p> <ul style="list-style-type: none"> ▪ Functions tests and their interpretation <ul style="list-style-type: none"> -Liver function test, kidney function test, Thyroid function test ▪ Point of care testing <ul style="list-style-type: none"> -glucometer, urine stick test, pregnancy test kit, ABG, electrolyte analyzer. 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration of laboratory tests. 	<ul style="list-style-type: none"> • Short answer questions • Objective type

			<ul style="list-style-type: none"> ▪ Heme catabolism <ul style="list-style-type: none"> ○ Heme degradation pathway <p>Jaundice – type, causes, urine & blood investigations (van den berg test)</p> <p><u>Desirable to know</u></p> <p>Hyper-gammaglobinemia</p> <p>Demonstrates skills in collecting samples for different biochemical investigation.</p> <p>Interprets findings of biochemical tests; blood glucose, protein, cholesterol, LFT, RFT, TFT.</p> <p>Performs urine stick test, & Pregnancy kit test.</p> <p><u>Nice to know</u></p> <p>Biochemical basis of retroviral therapy</p>		
--	--	--	---	--	--

Lab practical:

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

RS-1 MICROBIOLOGY

Placement: First year

Time: Theory – 45 Hrs
Practical- 15 Hrs

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
T/IV	Microbiology	25	75	100

Scheme of examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
T/IV	Microbiology	3 hours	75

Question paper pattern

Essay type question : 3 x 10 = 30 Marks

Short Notes : 5 x 5 = 25 Marks

Short answer type : 10 x 2 = 20 Marks

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

Course Description

This course is designed to enable students to acquire understanding of fundamentals of microbiology and identification of various microorganisms. It also provides opportunities for practicing infection control measures and standard precautions in hospital and community settings.

COMPETENCIES

At the end of the course, the students shall be able to:

1. State the infective microorganisms of the human body and describe the host parasite relationship.
2. Discuss the pathogenic microorganisms (bacteria, virus, parasites, fungi) and disease caused by them.
3. Explain the modes of transmission of pathogenic and opportunistic organisms and their sources to avoid spread of the infection.
4. Demonstrate knowledge on suitable antimicrobial agents, anti-microbial resistance (AMR) and role of antimicrobial stewardship in performing the nurses' role.
5. Integrate the knowledge of isolation (Barrier and reverse barrier) techniques in implementing various precautions.
6. Describe the concept of vaccines and different vaccines available for prevention of communicable diseases.

7. Demonstrate knowledge and skill in specimen collection, handling and transport to optimize the diagnosis for treatment by ensuring proper preventive measures.
8. Incorporate the principles and guidelines of biomedical waste management in the hospital as well as at primary care level.
9. Apply the knowledge of occupational safety measures for health-care workers, International Patient Safety Goals (IPSG) and Patient Safety Indicators in the patient care settings.
10. Develop knowledge and understanding of Hospital acquired Infections (HAI) and effective practices for prevention
11. Illustrate various methods of sterilization and disinfection to control and prevent hospital and community infections.
12. Discuss the containment of any outbreak of disease from public health view.
13. Develop an understanding of standard safety measures and infection prevention strategies in clinical practice and adhere to those protocols.
14. Demonstrate and practice proper use of personal protective equipment's
15. Identify employee safety indicators and the risk of occupational hazards
16. Identify patient safety indicators and perform the role of nurse in the patient safety audit process

Unit no	Hours		Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I	3		<ul style="list-style-type: none"> • Explain the importance of microbiology & its importance in nursing. • Describe the various microbiological terms. 	<p>Introduction to Microbiology <u>Must Know</u></p> <p>Importance of Medical Microbiology in diagnosis and prevention of infectious diseases. Explain the importance of microbiology in nursing. Main contributions of Antoine van Leeuwenhoek, Pasteur, Lister and Robert Koch. Medical Microbiology which includes the branches, Bacteriology, Virology and Mycology. Infection, Pathogen, Commensal, Symbiosis, Host, Vector Contagious Disease and Source Mode of infection/route of infection and spread of common infectious diseases</p> <p>Endogenous and exogenous</p>	Lecture cum Discussion	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

				infection Reservoir of infection. Infectious disease Epidemic, Endemic, Pandemic & Zoonosis <u>Desirable to know</u> Contribution of Fleming, Jenner <u>Nice to know</u> Contributions of Antoinévan Leeuwenhoek, Pasteur, Lister and Robert Koch in detail		
II	7	3	<ul style="list-style-type: none"> Describe structure classification morphology, physiology, growth of bacteria & its genetics. Identify microorganisms 	General characteristics of Bacteria and their methods of study <u>Must Know</u> General characteristics of Bacteria <ul style="list-style-type: none"> Morphology of Bacteria Bacterial cell Morphological classification Method of studying bacteria Staining methods and their principles, especially Gram & Ziehl Neelsen Culture media: - <ul style="list-style-type: none"> Definition, Classification and application Types of culture media and uses. Identification of Bacteria: <ul style="list-style-type: none"> Specimen collection-type of infection, Nature of specimen Aseptic precautions to be taken while collecting the sample Transportation of specimen for microbiological diagnosis Normal Flora: <ul style="list-style-type: none"> Introduction Various sites Types and role <u>Desirable to know</u>	<ul style="list-style-type: none"> Lecture cum Discussion Lab Demonstration 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				<p>Physiology of Bacteria:</p> <ul style="list-style-type: none"> • Nutritional requirements, Growth curve. • Constituents of culture media. • Processing of specimens for microbiological investigations which include culture methods, and serological tests and animal pathogenicity • Prebiotics, Probiotics & Symbiotics <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Giemsa stain & other staining methods in detail. • Processing of different specimen on various culture media • Biochemical reactions of individual bacteria • Microbiota transplantation 		
III	11	2	Describe the methods of infection control.	<p>Infection control measures</p> <p><u>Must Know</u></p> <p>Sterilization and Disinfection</p> <ul style="list-style-type: none"> • Definition of sterilization, Disinfection, Asepsis and Antisepsis • Mode of killing microbes and preventing them. • Enumeration of physical methods of sterilization which includes principles and their application. • Newer methods of sterilization, Plasma & ETO • Concept of Central Sterile Supply Department (CSSD) • Modes of action of chemical agents on microbes – Phenols, Halogens, Aldehydes, Acids, Alcohol, Heavy metals, Oxidizing agents • Antiseptic policy • Universal Biosafety precautions • Standard precautions and transmission-based precautions • Occupational hazards of health care workers and 	<ul style="list-style-type: none"> • Lecture cum Discussion • Lab Demonstration • Visit to CSSD • Clinical practice • Demonstration of hand hygiene 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<p>control</p> <ul style="list-style-type: none"> • Vaccination programme for health care staff • Needle stick injuries and prevention • Post exposure prophylaxis • Types of isolation system • Isolation precautions and use of personal protective equipments • Effective use of PPE • CDC Guidelines- Epidemiology and infection prevention <p>Chemotherapy:</p> <ul style="list-style-type: none"> • Antimicrobial Susceptibility tests (disk diffusion test-Kirby-Bauer's method and Stoke's method) • Antibiotic stewardship • Importance of antibiotic stewardship • Definition of antimicrobial resistance (AMR) • Types of drug resistance • Prevention of MRSA, MDRO in healthcare setting • Bacteriology of air, water, milk and food <p>Waste Disposal:</p> <ul style="list-style-type: none"> • Definition of waste • Classification and disposal • Biomedical waste management rules <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Ubiquity of bacteria • Details on working of Autoclave and Hot air oven, Inspissator and Koch's steamer • Mechanisms of Drug resistance • Transfer of resistance in different bacteria <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Operation & use of Inspissator • Different dyes & their concentration & contact time 		
--	--	--	---	--	--

				<ul style="list-style-type: none"> • Transduction, Transformation, • Conjugation and R factor experiments 		
IV	2	2	Describe the different disease producing bacteria	<p>Systemic Bacteriology <u>Must Know</u> Morphology, Classification, Laboratory diagnosis (collection & transport only), Treatment, Prevention & control of:</p> <ul style="list-style-type: none"> ➤ Gram Positive Cocci <ul style="list-style-type: none"> ○ <i>Staphylococcus/</i> ○ <i>Streptococcus/</i> ○ <i>Enterococcus/</i> ○ <i>Pneumococcus spp.</i> ➤ Gram Negative Cocci – <ul style="list-style-type: none"> ○ <i>Neisseria.spp</i> ➤ Gram Positive Bacilli <ul style="list-style-type: none"> ○ <i>C. diphtheriae</i> ○ <i>Mycobacterium tuberculosis</i> ○ Atypical Mycobacteria, HIV ○ <i>M. leprae</i> ➤ <i>Cl. welchii, Cl. tetani</i> and <i>Cl. botulinum</i> ➤ Enterobacteriaceae ➤ <i>Salmonella Typhi & Para typhi</i> ➤ <i>Vibrio cholerae</i> ➤ <i>Pseudomonas aeruginosa</i> ➤ <i>Actinomycetes, Nocardia spp</i> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Spirochete • Mycoplasma • Chlamydia • Rickettsia <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • National control and Eradication programme of communicable diseases • Pathogenesis and Laboratory diagnosis (Processing of specimen in microbiology lab) of bacterial diseases. 	<ul style="list-style-type: none"> • Lecture Discussion • Lab Demonstration • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
V	4	1	Describe the different disease producing	<p>Parasitology <u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction 	<ul style="list-style-type: none"> • Lecture cum Discussion • Lab 	<ul style="list-style-type: none"> • Essay type • Short

			parasites.	<ul style="list-style-type: none"> Parasite- their nature, classification Explanation of terminology Emerging parasitic infections. Morphology, classification, life cycle, pathogenesis, laboratory diagnosis (method of sample collection & transport), prevention & control, treatment & immunoprophylaxis of: <ul style="list-style-type: none"> ➤ Entamoeba histolytica ➤ Plasmodium species ➤ Trichomonas vaginalis ➤ Cestodes <ul style="list-style-type: none"> ○ Taeniasaginata and Taenia solium ○ Echinococcus granulosus ➤ Intestinal Nematodes <ul style="list-style-type: none"> ○ E. vermicularis ➤ Tissue Nematodes <ul style="list-style-type: none"> - Wuchereria bancrofti <p><u>Desirable to know</u> Pathogenic Protozoa: Toxoplasma</p> <p><u>Nice to know</u> Immunity to parasitic diseases Non-pathogenic amoeba</p>	<p>Demonstration</p> <ul style="list-style-type: none"> Clinical practice 	<p>notes</p> <ul style="list-style-type: none"> Short answer questions
VI	1	1	Describe the different disease producing fungi.	<p>Mycology <u>Must Know</u></p> <ul style="list-style-type: none"> Introduction Characterization of fungi Morphology and clinical classification of fungi Morphology, Classification, Pathogenesis & Laboratory diagnosis (specimen collection & transport) of: <ul style="list-style-type: none"> ➤ Systemic mycosis ➤ Subcutaneous mycosis: Mycetoma ➤ Superficial Mycosis: Candida, Cryptococcus <p>Opportunistic fungal Infection:</p> <ul style="list-style-type: none"> ➤ Classification ➤ Predisposing factors ➤ Morphology of Aspergillus 	<ul style="list-style-type: none"> Lecture cum Discussion Lab Demonstration Clinical practice 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				<p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Pneumocystis carinii <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Industrial importance of fungi • Mycotoxins • Candida Auris 		
VII	1	1	Describe the different disease producing viruses.	<p><u>Virology</u></p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction: • Morphology, multiplication classification of viruses, • Laboratory diagnosis of viral infections, • Collection of samples, transport, method of diagnosis. <p>Morphology, Classification, Pathogenesis, Laboratory diagnosis, Prevention & control, Treatment & Immunoprophylaxis of:</p> <ul style="list-style-type: none"> ➤ Herpes Viruses ➤ Hepatitis Viruses ➤ Picorna Viruses: Immunoprophylaxis of poliomyelitis ➤ Orthomyxo Viruses: Antigenic variation in influenza virus with relevance to vaccine efficacy ➤ Paramyxo Viruses: measles, mumps and rubella ➤ Arboviruses: List of arboviruses prevalent in India, Dengue, Japanese encephalitis ➤ Rhabdoviruses: Antirabies vaccines ➤ Retroviruses-HIV <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Bacteriophage • Kyasanur forest disease • Methods of cultivation of viruses 	<ul style="list-style-type: none"> • Lecture cum Discussion • Lab Demonstration • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

				<p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Chemoprophylaxis and chemotherapy of viral diseases • Concept of viral load and detection 		
VIII	4	1	Explain the concept of immunity, hypersensitivity & immunization	<p>Immunology <u>Must Know</u></p> <p>Introduction: Definition of immunity, types of immunity, factors responsible, Mechanism of innate immunity, Active and passive immunity, local Immunity and can add note on herd immunity.</p> <ul style="list-style-type: none"> • Antigens: Definition, types, antigen determinants, properties of antigen. • Antibodies: Definition nature, structure of immunoglobulin – immunoglobulin classes Physical and biological properties of immunoglobulin. • Serological Reactions: Definition of titre, sensitivity and specificity, prozone phenomenon, Principles, Types and application of precipitation, Agglutination, applications of ELISA • Structure and function of Immune System: Primary lymphoid organs, Secondary lymphoid organs, Cells of immune system, lymphocytes, T cells, B cells, Null cells, Antigen presenting cells (APC) <p>Immune Response:</p> <ul style="list-style-type: none"> • Humoral and Cell mediated Immunity <p>Complement:</p> <ul style="list-style-type: none"> • Definition, Components, and biological functions. 	<ul style="list-style-type: none"> • Lecture cum Discussion • Lab Demonstration • Clinical practice 	<ul style="list-style-type: none"> • Short answer question • Objective type

			<ul style="list-style-type: none"> • Concept of anaphylaxis <p>Hypersensitivity:</p> <ul style="list-style-type: none"> • Definition, Classification • Difference between immediate and delayed reactions, • Mechanism of anaphylaxis and tests for anaphylaxis <p>Vaccination:</p> <ul style="list-style-type: none"> • Principles of immunization and classification • Immunoprophylaxis • Nature of vaccines, rationale, dosage and storage <p>Desirable to know</p> <p>Serological reactions</p> <ul style="list-style-type: none"> • Radio Immuno Assay • Immunofluorescence Test • Neutralization and opsonization <p>Future Vaccines</p> <p>Nice to know</p> <ul style="list-style-type: none"> • Gel diffusion, • Complement fixation • Procedure of ELISA 			
IX	12	4	<ul style="list-style-type: none"> • Explain the various disease conditions related to microbiology. • Identify the role of nurse in hospital infections. • Explain the process of investigating an outbreak 	<p>Applied Microbiology</p> <p>Must Know</p> <p>Gastrointestinal infections</p> <ul style="list-style-type: none"> • Diarrhoea and Dysentery and their laboratory diagnosis • Important causative agents • Specimen collection & Transport • Prevention • Upper Respiratory tract infections (Patch and sore throat) and their laboratory diagnosis. • Lower Respiratory Tract infections (Pneumonia, Bronchitis, Bronchiolitis and their laboratory diagnosis. • Urinary tract infection and their laboratory diagnosis. • Infection of Central Nervous System 	<ul style="list-style-type: none"> • Lecture cum Discussion • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<p>(<i>Meningitis, Encephalitis, Brain abscess</i>) and their laboratory diagnosis.</p> <ul style="list-style-type: none"> • Fever of unknown origin, organisms and their laboratory diagnosis. • Sexually transmitted disease and their laboratory diagnosis. <p>Hospital infections</p> <ul style="list-style-type: none"> • Definition, • Classification, • Type of infection, • Interpretation of lab results • Prevention of Hospital Acquired Infections (HAI) <p>Hospital infection control committee</p> <ul style="list-style-type: none"> • Role of infection control nurse • Protocol, collection of samples • Preparation of report and status of rate of infection in the unit/hospital • Infection control nurse's accountability, continuing education etc. • Patient safety indicators and adverse events • Care of lines, drains and tubing's • International patient safety goals • Improve safety of high alert medications • Reduce risk of health care associated infections • Reduce the harm associated with clinical alarm system <p>Microbiological investigation of an outbreak</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Processing of specimen for Gastrointestinal infections • Processing of specimen for 	
--	--	--	---	--

			<p>upper Respiratory tract infections</p> <ul style="list-style-type: none"> • Processing of specimen for lower respiratory tract infections • Processing of specimen for urinary tract infections • Processing of specimen for central nervous system infections • Processing of specimen for sexually transmitted disease • Methods of laboratory diagnosis various infections <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Treatment of Diarrhoea and dysentery • Treatment of Upper respiratory infections • Treatment of lower respiratory infections • Treatment of urinary tract infections • Treatment of central nervous system infections • Treatment of sexually transmitted infections 	
--	--	--	---	--

Lab Practical

- Methods of Study of bacteria and other microbes
- Demonstration of sterilization methods
- Types and use of disinfectants
- Disposal of biomedical waste
- Staining techniques for bacteria
- Collection, transport, and processing of specimens and basic lab techniques for bacterial infections, parasitic infections, fungal infections, viral infections
- Demonstration of antigen-antibody reactions
- Serological diagnosis of bacterial diseases
- Lab diagnosis of blood-stream infections, urinary tract infections, pyrexia of unknown origin, sexually transmitted infections, food and waterborne disease, Anaerobic infections

RS-1 Nursing Foundations

Placement: First year

Duration: Theory- 270* Hours
Practical*: 680
200 Lab+480 clinical

(*including 34 hours of theory and 36 hours of practical as mandatory modules)

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
T/V	Nursing Foundations	25	75	100

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks Final Exam
T/V	Nursing Foundations	3 Hours	75

Question Paper Pattern

Essay Type Question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short Answer Questions : 10 x 2 = 20 Marks

Note:

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

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 the knowledge, understanding and skills in techniques of nursing and practice them in supervised clinical setting.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Develop understanding about the concept of health, illness and scope of nursing within health care services.
2. Apply values, code of ethics and professional conduct in professional life.
3. Perform admission, transfer, and discharge of a patient under supervision
4. Apply the principles and methods of effective communication in establishing therapeutic communication with patients, families and other health team members
5. Describe the principles and techniques of infection control and biomedical waste management
6. Demonstrate skill in disinfection/sterilization of equipment /instruments
7. Demonstrate skill in implementing standard precautions and use of PPE
8. Develop skill in recording and reporting

9. Monitor, document and identify abnormalities in vital signs
10. Demonstrate skills in collecting comprehensive patient history.
11. Perform health assessment in supervised clinical settings
12. Demonstrate fundamental skills in providing nursing care using Nursing process approach in supervised clinical settings
13. Identify and meet the hygienic, nutritional, comfort, safety and elimination needs of patients
14. Identify the educational needs of patients and demonstrate basic skills of patient education.
15. Promote oxygenation based on identified oxygenation needs of patients under supervision
16. Promote fluid and electrolyte needs based on the knowledge of applied physiology
17. Demonstrate knowledge and understanding in caring for patients with altered functioning of sense organs, unconsciousness, restricted mobility and special needs
18. Demonstrate skill in calculation of drug dosages and conversion of dosages within and between systems of measurements
19. Demonstrate the skills in administration of drugs through different routes.
20. Integrate the knowledge of culture and cultural differences in meeting the spiritual needs
21. Describe sexual development and sexuality
22. Identify stressors and stress adaptation modes and assist patients to adopt various coping strategies
23. Explain loss, death and grief and care for terminally ill and dying patients
24. Perform first aid measures during emergencies
25. Demonstrate skill in collection and transportation of specimens and interpretation of findings of specimen testing.

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
I	5	<ul style="list-style-type: none"> • Describe the concept of health, illness and health care agencies. • Discuss the health belief and health promotion. • Enumerate factors influencing health, health belief and practices. • Discuss types, organization and functions of hospitals. • Explain 	<p>Health & health care agency</p> <p>Must know</p> <ul style="list-style-type: none"> • Health: Concepts, definitions, meaning and determinants of health • Illness and illness behaviour (Sick role)- Definition, Stages, Patterns, and factors affecting. • Risk factors influencing health • Health to illness continuum • Levels of care: primary, secondary & tertiary 	<ul style="list-style-type: none"> • Lecture cum discussion • Symposium • Seminar • Visit to health care agencies 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • Viva-Voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		primary health care in India and the role of nurse	<ul style="list-style-type: none"> Health care agencies: clinics, Hospital, hospice, rehabilitation centre, extended care facility, Hospital: Types, functions and organisation. Healthcare team in hospital and their roles <p>Desirable to know</p> <ul style="list-style-type: none"> Impact of illness on individual, family and community. Maslow's hierarchy of need <p>Nice to know</p> <ul style="list-style-type: none"> Strategies to promote health care compliance 		
II	15	<ul style="list-style-type: none"> Explain concept, philosophy, objectives and scope of nursing. Discuss the role and responsibilities of a nurse. Appreciate the definition and characteristics of nursing as profession. Describe values, code of ethics and professional conduct for 	<p>Nursing as a profession</p> <p>Must know</p> <ul style="list-style-type: none"> Nursing: Definitions, concepts and objectives. Professional Nurse: Definition, functions, roles, responsibilities Professional etiquettes and qualities. Categories of nursing personnel Nursing Profession: Characteristics and criteria. (Bixler & Bixler, Kelly, TNAI) Nursing education in India 	<ul style="list-style-type: none"> Lecture cum discussion Symposium Seminar Role plays 	<ul style="list-style-type: none"> Essay type questions Short note questions Short answer questions Viva-Voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		nurses in India.	<ul style="list-style-type: none"> Ethics: Code of ethics (INC & ICN) and professional conduct, ethical principles <p>Desirable to know</p> <ul style="list-style-type: none"> Nursing scope, Philosophy, International & national nursing organizations. Values: Definition, types and values in professional nursing. Law: Sources of law. Types of law. Civil Vs Criminal law. Legal issues <p>Nice to know</p> <ul style="list-style-type: none"> History of Nursing in India and world. Ethical dilemma. Trends of Nursing in India 		
III	5	<ul style="list-style-type: none"> Explain the admission & discharge procedure. Appreciate the legal implications in admission and discharge of patient. Discuss the role & responsibilities of a nurse in admission & 	<p>Hospital admission and discharge</p> <p>Must know</p> <p>Admission to the hospital</p> <ul style="list-style-type: none"> Unit and its preparation admission bed Admission procedure Roles and Responsibilities of the nurse in admission process <p>Hospital discharge</p> <ul style="list-style-type: none"> Types: Planned discharge, LAMA and abscond, 	<ul style="list-style-type: none"> Lecture cum discussion Symposium Seminars Role plays Demonstration Supervised clinical practice 	<ul style="list-style-type: none"> Essay type questions Short note questions Short answer questions Clinical performance evaluation Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		<p>discharge.</p> <ul style="list-style-type: none"> • Performs admission & discharge procedure 	<p>Referrals and transfers</p> <ul style="list-style-type: none"> • Discharge Planning • Discharge procedure • Roles and Responsibilities of the nurse during discharge <p>Desirable to know</p> <ul style="list-style-type: none"> • Special considerations & Medico-legal issues during admission • Medico-legal issues in discharge • Care & disinfection of the unit after discharge 		
IV	10	<ul style="list-style-type: none"> • Describe concept, elements and forms of communication • Demonstrate ability to effectively communicate and develop nurse patient relationship 	<p>Communication and Nurse patient relationship</p> <p>Must know</p> <ul style="list-style-type: none"> • Communication: definition, Types, Levels, Elements, Modes, Process, Factors influencing Communication • Methods of effective Communication • Facilitators & Barriers to effective communication • Patient Teaching: • Importance, Purposes, Process, principles, role of nurse in patient teaching • IPR: Definition, Principles, concepts, elements and importance, role of Nurse. 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Demonstration of recorded videos. • Role plays • Supervised clinical Practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>Desirable to know</p> <ul style="list-style-type: none"> • Communication techniques; therapeutic & non-therapeutic • Maintaining effective communication with special group (children, women, elderly, physically & mentally challenged) • Integrating patient teaching in Nursing process <p>Nice to know</p> <ul style="list-style-type: none"> • Attending skills • Empathy skills • Rapport building skills 		
V	25	<ul style="list-style-type: none"> • . Describe purpose & process of health assessment. • Discuss the methods & techniques health assessment. • Perform health assessment of each body system. 	<p>Health Assessment:</p> <p>Must know</p> <ul style="list-style-type: none"> • Purpose & process of health assessment • History taking; objective & subjective history • Physical examination; Methods & techniques. • Preparation for examination: patient and unit • General assessment • Documenting health assessment findings. <p>Desirable to know</p> <ul style="list-style-type: none"> • System wise Assessment 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration. • Practice session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Clinical performance evaluation • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
VI	15	<ul style="list-style-type: none"> • Explain the concept, uses, format and steps of nursing process. • Documents nursing process as per prescribed format • Describe critical thinking and its use in clinical nursing judgment 	<p>Nursing Process Must know</p> <ul style="list-style-type: none"> • Decision making in nursing practice. • Nursing Process; Overview, phases & characteristics of Nursing process. • Assessment <ul style="list-style-type: none"> - Collection of Data: Types, Sources, Methods - Organizing Data - Validating Data - Documenting Data • Nursing Diagnosis <ul style="list-style-type: none"> - Identification of client problems, risks and strengths - Nursing diagnosis statement- parts, Types and formulation of Nursing Diagnosis - NANDA approved diagnosis - Difference between medical and nursing diagnosis • Planning <ul style="list-style-type: none"> - Planning: <ul style="list-style-type: none"> - Setting priorities - Goal - Planning intervention - Recording • Implementation <ul style="list-style-type: none"> - Process of Implementation - Types of care – Direct and Indirect • Evaluation • Documentation 	<ul style="list-style-type: none"> • Lecture cum discussion • Demonstration • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>Desirable to know</p> <ul style="list-style-type: none"> • Critical thinking; definition, purpose, technique and attitude fostering critical thinking. <p>Nice to know</p> <ul style="list-style-type: none"> • Concept mapping, different types of care plan-Computerized, mobile apps • Nursing Process vs Problem solving. 		
VII	5	Describe the purposes types and techniques of recording and reporting in nursing practices.	<p>Documentation and reporting</p> <p>Must know</p> <ul style="list-style-type: none"> • Documentation: definition, Purpose of recording and reporting, Guidelines for documentation • Recording; Types, Methods, <ul style="list-style-type: none"> - Types of records; ward records, medical/nursing records, - Documenting Nursing activities - Common Recordkeeping forms, Computerized documentation. • Reporting: types (Change of shift reports, Transfer reports, incident reports, telephone reports) • Nursing responsibilities 	<ul style="list-style-type: none"> • Lecture cum discussion • Lab demonstration • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>in documentation & reporting</p> <p>Desirable to know</p> <ul style="list-style-type: none"> Guideline for documentation & reporting <p>Nice to know</p> <ul style="list-style-type: none"> Minimizing legal Liability through effective record keeping 		
VIII	15	<ul style="list-style-type: none"> Describe physiology, regulation and factors affecting vital signs of human body. Discuss principles and techniques of vital signs monitoring. <p>Identify the alteration in vital signs.</p>	<p>Vital signs:</p> <p>Must know</p> <ul style="list-style-type: none"> Guidelines for taking vital signs <p>Body Temperature:</p> <ul style="list-style-type: none"> Physiology & Regulation of body temperature, Factors affecting body temperature Assessment of surface and core temperature: sites, equipment, Techniques and principles of temperature monitoring. Alteration of body temperature; its assessment & management Fever/ Pyrexia- Definition, Causes, Stages, Types & management 	<ul style="list-style-type: none"> Lecture cum discussion Seminar Lab demonstration. Practice session on patient. Supervised clinical practice 	<ul style="list-style-type: none"> Essay type questions Short note questions Short answer questions OSCE Clinical performance evaluations Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>Pulse:</p> <ul style="list-style-type: none"> • Characteristics of the pulse, Factors affecting pulse • Assessment of pulse: Sites, location, equipment's and technique, special Considerations <p>Respiration:</p> <ul style="list-style-type: none"> • Characteristics of the respiration, factors affecting respiration • Assessment of respirations: technique, special considerations • Alterations in respiration • Arterial oxygen saturation <p>Blood pressure:</p> <ul style="list-style-type: none"> • Factors affecting blood pressure, characteristics of the blood pressure, • Assessment of blood pressure: sites, equipment and technique, special considerations • Alterations in blood pressure: hypotension & hypertension • Recording of vital signs <p>Desirable to know</p> <ul style="list-style-type: none"> • Pulse: physiology and regulation • Alterations in pulse: tachycardia & bradycardia • Physiology and 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			Regulation, Mechanism <ul style="list-style-type: none"> • of breathing, • Physiology and Regulation of blood pressure. Nice to know <ul style="list-style-type: none"> • Dyspnoea, Causes, Management 		
IX	5	Identify the various machinery, equipment, linen uses in patient care & their care.	Care of Equipment and supplies Must know <ul style="list-style-type: none"> • Hospital Housekeeping: purpose, principle & guideline • Types of equipment & supplies: Disposables and Re-usable • Care of Linen, rubber goods, stainless steel, glass ware, metal, plastics, furniture, machinery, sharp Desirable to know <ul style="list-style-type: none"> • Disinfection of equipment Nice to know <ul style="list-style-type: none"> • Introduction to Indent, maintenance, Inventory 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration. 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • Viva-voce
X	75	<ul style="list-style-type: none"> • Describe the physiological & psychological needs of the patient. • Describe the 	Meeting needs of patient Must know Environment and patient safety <ul style="list-style-type: none"> • Physical environment: 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration. • Practice session • Supervised 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		<p>principles & techniques for meeting physiological & psychological needs of the patient.</p> <ul style="list-style-type: none"> • Perform nursing assessment, plan, implement & evaluate the care for meeting physiological & psychological needs of the patient. • Demonstrates the skills in performing basic and advanced nursing procedures to meet the physical, physiological and psychological needs of the patient 	<p>Temperature, Humidity, Noise, Ventilation, light, odour, pest control.</p> <ul style="list-style-type: none"> • Fall Risk Assessment • Role of nurse in providing safe and clean environment • Safety devices: • Restraints- Types, Purposes, Indications, Legal Implications and Consent, Application of Restraints- Skill and Practice guidelines <p>Hygiene:</p> <ul style="list-style-type: none"> • Factors Influencing Hygienic Practice • Hygienic care; Indications, purposes, steps & effects of neglected care: • Care of the Skin (bed bath, assisted bath, partial bath) • Care of hair (hair shampoo & hair combing) • Care of nail • Care of hand, feet, Oral cavity, Eyes, Ears and Nose (eye glasses, contact lens, dentures, hearing aid) • Perineal/ meatal hygiene • Care of pressure points: • Pressure ulcers; causes, stages, management and prevention 	clinical practice	<ul style="list-style-type: none"> • Clinical performance evaluation • Clinical practical examination • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>Rest, sleep & Comfort:</p> <p>Sleep and Rest:</p> <ul style="list-style-type: none"> • Factors affecting sleep • Promoting Rest and sleep <p>Comfort</p> <ul style="list-style-type: none"> • Factors Influencing Comfort • -Types of bed & bed making • Comfort devices • Pain: Physiology, cause, Types, assessment of pain • Pharmacological and Non- pharmacological pain-relieving measures. • Invasive techniques of pain management o CAM (Complementary & Alternative healing Modalities) • Hot and cold applications <p>Meeting Nutritional needs:</p> <ul style="list-style-type: none"> • Importance & Factors affecting nutritional needs • Care of patient with Dysphagia, Anorexia, Nausea, Vomiting • Indication, purposes, Equipment, procedure and special considerations of: <ul style="list-style-type: none"> - Oral feeding - Enteral feeding: Naso/Orogastric, gastrostomy, 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p style="text-align: center;">Jejunostomy</p> <p>Urinary Elimination</p> <ul style="list-style-type: none"> • Factors Influencing Urination • Alteration in Urinary Elimination and its management: • Observation, urine testing • Facilitation urine elimination: assessment, types, equipment, procedures and special considerations • Urinary catheterization & catheter care <p>Bowel Elimination</p> <ul style="list-style-type: none"> • Composition and characteristics of faeces • Factors affecting Bowel elimination • Alterations in Bowel elimination and its management • Facilitating bowel elimination: assessment, • Equipment, procedures and special considerations: • Enemas • Suppository • Sitz bath • Insertion of flatus tube <p>Mobility and Immobility</p> <ul style="list-style-type: none"> • Principles of Body Mechanics • Maintenance of normal 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>body alignment and mobility</p> <ul style="list-style-type: none"> • Factors affecting body Alignment and mobility • complications of prolonged immobilisation • Alterations in body Alignment and Mobility • Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method of; <ul style="list-style-type: none"> - Range of motion exercises - Maintaining body alignment: Positions - Moving - Lifting - Transferring - Walking • Assisting clients with ambulation <p>Oxygenation</p> <ul style="list-style-type: none"> • Factors Affecting Oxygenation • Alteration in oxygenation • Nursing Intervention in oxygenation: • assessment, types, equipment used, procedure and special considerations <ul style="list-style-type: none"> - Maintenance of patent airway - Oxygen administration - Inhalations: Dry and moist - Pulse oximetry 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> - Deep breathing exercises & incentive spirometry Fluid electrolyte & acid base balance • Factors Affecting Fluid, Electrolyte, and Acid – Base balances • Disturbances in fluid volume: Dehydration and Oedema • IV therapy: <ul style="list-style-type: none"> - Administering Fluid: Types of IV fluids, flow rate Calculation, Complications of IV fluid therapy, Measuring fluid intake and output - Administering Blood and Blood components - Restricting & Enhancing Fluid intake Psychosocial Need • Concept, assessment & nursing management of: <ul style="list-style-type: none"> - Self concept: component, factor affecting and role of nurse in maintaining self-concept - Sexuality: sexual development, sexual health, factor affecting sexuality, role of Nurse - Spiritual health: concept & factor influencing spiritual health, role of nurse in promoting spiritual wellbeing during illness - Cultural diversity: culture, cultural concept, 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>cultural diversity, transcultural nursing</p> <ul style="list-style-type: none"> • Stress & adaptation: <ul style="list-style-type: none"> - Definition of stress & stressor, type of stressor, effect of stress & stress management <p>Desirable to know</p> <ul style="list-style-type: none"> • Reduction of Physical hazards: fall, fire, accidents • Other Safety Devices: Side rails, Grab bars, trapeze bar, AMBU, alarms, non-skid slippers etc. • Assessment of Pressure Ulcers using Braden Scale and Norton Scale • Physiology & stages of sleep • Theories of pain • Review: special diets- Solid, Liquid, Soft • Review on therapeutic diets • Nutritional assessment • Review of Physiology of Urine Elimination, • Composition and characteristics of urine • Providing urinal/bed pan • Condom drainage • Review of Physiology of Bowel elimination • Care of patients with 		

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			casts and splints <ul style="list-style-type: none"> • Review of Cardiovascular and respiratory • Physiology • Postural drainage • Chest Physiotherapy • Physiological Regulation of Fluid, • Electrolyte, and Acid – Base Balances • Assisting with coping & adaptation Nice to know <ul style="list-style-type: none"> • International patient safety goals (IPSG) • Sleep disorders • Parenteral- TPN • Urinary diversions • Bladder irrigation • Care of patients with Ostomies (Bowel Diversion Procedures) • Bowel wash • Care of chest drainage • Assessment of psychosocial needs of patient & family • Creating therapeutic environment, recreational & divertional therapies 		
XI	Infection control in Clinical setting 20 hours theory allotted to Mandatory module No. 1				
XII	35	<ul style="list-style-type: none"> • Describe the concept, routes, and 	Administration of Medications	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar Lab 	<ul style="list-style-type: none"> • Essay type questions • Short note

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		<p>effects of medication administration.</p> <ul style="list-style-type: none"> • Demonstrate the skills in drug dose calculation and conversion within and between systems of measurement • Discuss purposes, sites, equipments, preparation and procedure of drug admission through different routes. <p>Demonstrate the skills in administration of drugs through oral, topical and parenteral routes</p>	<p>Must know</p> <ul style="list-style-type: none"> • Medication: Definition, purposes, nomenclature and effects • Systems of Drug Measurement • Medication order and prescriptions, Terminologies and abbreviations used in prescriptions of medication • Principles of Drug administration, 10 R's, • Medication errors • Forms of Medications, equipment (syringes, Infusion sets, needles, cannulas, vials, ampoules) • Dose calculations, conversion between systems and within one system, Preparation of solutions. • Routes of drug administration: purpose, sites, Equipment, preparation procedure and special consideration: Enteral: Oral, sublingual and Buccal, NG tube Parental: Intradermal, Subcutaneous, Intramuscular, Intravenous 	<p>demonstration.</p> <ul style="list-style-type: none"> • Practice session • Supervised clinical practice 	<p>questions</p> <ul style="list-style-type: none"> • Short answer questions OSCE • Clinical performance evaluation • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>Topical: skin, mucous membrane, gargles, Direct application, transdermal patch, spraying throat</p> <p>Instillations: eye, ear, nose, vaginal, rectal</p> <p>Inhalation: MDI, nasal Inhalers</p> <ul style="list-style-type: none"> • Nurses Role in storage and maintenance of drugs • Recording and reporting <p>Desirable to know</p> <ul style="list-style-type: none"> • Broad classification of drugs • Pharmacodynamics and pharmacokinetics • Drug Tolerance • Types of drug action/ effect • Drug Interactions • Factors influencing drug Actions, • Advanced techniques: epidural, intrathecal, intra-osseous, intra-arterial, intraperitoneal, intra-pleural • Irrigations: eye, ear <p>Nice to know</p> <ul style="list-style-type: none"> • Indian Drug Legislation & standards 		
XIII	12 (8+4)	<ul style="list-style-type: none"> • Describe the pre, intra & 	<p>Meeting Needs of Preoperative Clients</p>	<ul style="list-style-type: none"> • Lecture cum discussion 	<ul style="list-style-type: none"> • Essay type questions

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
) (4 hours theory assigned to Mandatory module No. 3)	<p>post-operative care of patients.</p> <ul style="list-style-type: none"> • Explain the process of wound healing. • Explain the principles & procedures of wound care. <p>Demonstrate the skills in wound care</p>	<p>Must know</p> <ul style="list-style-type: none"> • Definition and concepts of Peri-operative nursing • Preoperative phase: preparation of patient for surgery. • Intra-operative Phase: Role of nurse in intraoperative period • Postoperative phase: preparation of post operative unit, post operative nursing care • Post operative complications & its management <p>Wounds and Wound care included as mandatory module no. 3</p>	<ul style="list-style-type: none"> • Seminar • Lab demonstration • Practice session on patient. • Supervised clinical practice 	<ul style="list-style-type: none"> • Short note questions • Short answer questions • OSCE • Clinical performance evaluation • Viva-voce
XIV	6	<ul style="list-style-type: none"> • Explain care of terminally ill patients. • Discuss the legal & medico-legal issues in care of terminally ill patient. 	<p>Care of patient with special needs</p> <p>Must know</p> <p>Care of Terminally ill patient, death & dying</p> <ul style="list-style-type: none"> • Death: Definition, types, Signs of clinical death • Care of dying patient • Last office care <p>Care of Unconscious Patients:</p> <ul style="list-style-type: none"> • Care of patient with altered level of consciousness: definition, causes, risk factors, Clinical Manifestations, 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Viva-voce

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
			<p>complications, Assessment and nursing management</p> <p>Desirable to know</p> <ul style="list-style-type: none"> • Medico-legal issues • Death declaration • Stages of consciousness <p>Nice to know</p> <ul style="list-style-type: none"> • Concepts of Loss, Grief, grieving process, supporting patient in grief. • -Advance directives: euthanasia, DNR, living wills, organ donation etc • Autopsy • Embalming 		
XV	5	Explain the basic concepts of theoretical models of nursing.	<p>Theoretical foundation in Nursing practice</p> <p>Must know</p> <ul style="list-style-type: none"> • Meaning & Definition, Purposes, Types of theories with examples • Overview of selected nursing theories- Nightingale's theory, Orem's theory, Henderson's theory. <p>Desirable to know</p> <ul style="list-style-type: none"> • Roy's adaptation theory <p>Nice to know</p> <ul style="list-style-type: none"> • Use of theories in nursing practice 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions
XVI	7	Demonstrates skill in collection and	Diagnostic testing	<ul style="list-style-type: none"> • Lecture cum discussion • Supervised 	<ul style="list-style-type: none"> • Essay type questions • Short note

Unit	Time (Hours)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
		transportation of specimen. Interprets the findings of diagnostic tests	<p>Must know</p> <ul style="list-style-type: none"> Sample collection: purpose, Preparation of patient, methods, interpretation & nursing intervention of diagnostic testing: <p>Blood: CBC, LFT, RFT, lipid profile, electrolytes, glucose, peripheral smear, culture, coagulation profile.</p> <p>Stool: routine & microscopic examination</p> <p>Urine: RE/ME, specific gravity, timed, culture</p> <p>Sputum: culture, Gram staining</p> <p>Desirable to know</p> <ul style="list-style-type: none"> ECG Radiologic investigation: CT scan, X-Ray, MRI, USG Endoscopic Procedures: upper GI endoscopy, colonoscopy. 	practice in clinical area	<p>questions</p> <ul style="list-style-type: none"> Short answer questions OSCE
XVII	First Aid & emergencies- 10 hours theory covered in mandatory module no. 2				

Mandatory Module 1: Infection control in Clinical setting					
Placement: BSc. First Year Fundamentals of Nursing					
Hour		Objective of Module	Content	Teaching Learning activities	Method of evaluation
Th	Pr				

20	10	Describe the principles & techniques for infection control & biomedical waste management in supervised clinical settings.	<p>Must know</p> <ul style="list-style-type: none"> • Introduction, types, stages & sources of infection. • Factor increasing susceptibility to infection • Chain of infection transmission • Health care associated infection • Concept of asepsis: medical asepsis and surgical asepsis • Bundle care (VAP, CAUTI, SSI, CLABSI) <p>Standard precautions</p> <ul style="list-style-type: none"> • Hand washing: medical & surgical • Isolation precaution • Personal protecting equipment • Transmission based precautions • Biomedical Waste management: importance, categories of hospital waste & process of Biomedical Waste management • Biological spill management • Transportation of infected patients <p>Desirable to know</p> <ul style="list-style-type: none"> • Nature of infection • Defences against infection: natural and 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration • Practice session on patient. <p>Supervised clinical practice</p>	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Viva-voce
----	----	---	--	--	---

			<ul style="list-style-type: none"> acquired Needle stick injury management Body fluid spill management <p>Nice to know</p> <ul style="list-style-type: none"> Preparation of disinfectant solution. Infection control bundles in clinical setting. 		
<p>Mandatory Module 2: First Aid & emergencies</p> <p>Placement: BSc. First Year Fundamentals of Nursing</p>					
10	20	<ul style="list-style-type: none"> Identifies the conditions requiring first aid management Performs first aid measure during emergencies 	<p>Must know</p> <ul style="list-style-type: none"> Definition, Basic Principles, Scope & Rules First Aid Management of: <ul style="list-style-type: none"> Wounds, Haemorrhage & Shock Bandaging: purpose, principle, type & techniques of bandaging Musculoskeletal Injuries: Fractures, Dislocation, Muscle injuries & Transportation of Injured persons Drowning Foreign Bodies- Skin, Eye, Ear, Nose, Throat & Stomach Burns & Scalds Poisoning, Bites & stings Frostbite & Heat 	<ul style="list-style-type: none"> Lecture cum discussion Supervised practice in clinical area and Lab 	<ul style="list-style-type: none"> Short note questions Short answer questions OSCE Evaluation based on a checklist

			stroke <ul style="list-style-type: none"> • Basic life support • Role in community disaster 		
Mandatory Module 3: Wound dressing					
Placement: BSc. First Year Fundamentals of Nursing					
4	6	<ul style="list-style-type: none"> • Explain the principles & procedures of wound care. • Demonstrate the skills in wound care 	Must Know <ul style="list-style-type: none"> • Wounds: Classification, healing process, factor affecting & complications of wound healing. • Care of drains • Surgical Wound dressing • Suture care Desirable to know <ul style="list-style-type: none"> • Wound healing process Nice to know <ul style="list-style-type: none"> • Types of sutures 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Lab demonstration • Practice session on patient. • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type questions • Short note questions • Short answer questions • OSCE • Clinical performance evaluation • Viva-voce
1					

RS-1 Nursing Foundations - Practical

Placement: First Year

Time: Practical – 680Hours
(170+30* Lab & 474 +6* Clinical)

*Practical of Mandatory module

Practical –P/ I Nursing Foundation Practical with Viva Voce	Internal Assessment	(Final Practical Exam)	Total
		100	100

Note:

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

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

Areas	Time (Hrs)		Objectives	Skills	Assignments	Assessment Methods
	Clinical	Lab				
emonstration lab, General Medical & Surgical Ward	480	4	<ul style="list-style-type: none"> • Performs admission and discharge procedure. 	<p>Hospital admission and discharge</p> <ul style="list-style-type: none"> • Prepare unit for new admission • Performs & document admission, transfer in, transfer out, planned discharge, LAMA and referral procedure • Dismantle & disinfect unit & equipment after 	Supervised nursing practice in unit/ hospital.	<ul style="list-style-type: none"> • Completion of practical record. • Assessment of clinical performance with designed checklist/ rating scale. • Viva-voce • OSCE

			discharge/ transfer.		
	4	<ul style="list-style-type: none"> • Communicates effectively with patient families & team members • Maintain effective nurse patient relations. • Develops plan for patient teaching 	Communication and Nurse patient relationship <ul style="list-style-type: none"> • Maintain effective communication with patient & families • Maintain good IPR • Provide health education to patient & their relatives 	Role plays in simulated situation & communication techniques- 1 Health talk – 1	<ul style="list-style-type: none"> • Assess role plays with check-list on communication techniques. • Assess health talk with checklist
	10 30	<ul style="list-style-type: none"> • Prepares Nursing Care Plan as per prescribed nursing process format • Performs health assessment of assigned patients. 	Nursing Process Health Assessment <ul style="list-style-type: none"> • Collect health history • Perform physical examination (general & systemic) by following different techniques. • Identify normal & abnormal findings of physical assessment • Document the findings • Provide nursing care to allotted patient based on nursing process approach. 	<ul style="list-style-type: none"> • Write nursing process records of patient. • Simulated – 1 • Actual – 1 	<ul style="list-style-type: none"> • Assessment of nursing process records with check-list. • Assessment of actual care given with rating scale/Checklist

		4	<ul style="list-style-type: none"> • Prepares patient reports • Presents written and oral patient reports 	<p>Documentation and reporting</p> <p>Document:</p> <ul style="list-style-type: none"> • Patient care, assessment findings & procedures • Incident report • Verbal order • Visit report 	<ul style="list-style-type: none"> • Write nurse's notes & present the patient report of 2-3 assigned patients. • Lab practice 	<ul style="list-style-type: none"> • Assessment of performance with rating scale.
		10	<ul style="list-style-type: none"> • Monitors vital signs 	<p>Vital signs:</p> <p>Monitor & document vital sign:</p> <ul style="list-style-type: none"> • Temperature (oral, axillary, rectal, tympanic, thermoscan digital) • Pulse (frontal, facial, carotid, apical, radial, brachial, femoral, popliteal, dorsalis pedis posterior tibial) • Respiration • Blood pressure • Calculate mean arterial pressure • Check SPO2 • Interpret the findings • Provide care to patient with fever, heat stroke, hypothermia, breathing 	<ul style="list-style-type: none"> • Measure vital signs of assigned patients. • Practice in lab & hospital 	<ul style="list-style-type: none"> • Assessment of each skill with checklist • Completion of activity record book

				<p>difficulty</p> <ul style="list-style-type: none"> • Care equipment used for monitoring vital signs 		
	2	Performs basic care of equipment and supplies	<p>Care of Equipment and supplies</p> <ul style="list-style-type: none"> • Take care of linen, rubber goods, glass ware, metal, plastics, furniture, machinery, sharps • Perform disinfection of equipment • Prepare solutions required for disinfections 	Practice in lab & hospital	<ul style="list-style-type: none"> • Assess observation study with checklist • Evaluate all procedures with checklist 	
	70	<ul style="list-style-type: none"> • Provides basic nursing care to patients 	<p>Meeting needs of patient</p> <ul style="list-style-type: none"> • Perform bed making (Open, Closed, Occupied, Post-operative, Cardiac bed Fracture bed, burn bed, amputation bed) • Provide comfort devices (Pillows, cardiac table, back rest, bed Cradle, foot board, bed block, trapeze bar) • Provide restraint to patient (jacket, mitt, 	Practice in lab & hospital	<ul style="list-style-type: none"> • Assessment of each skill with rating scale • Completion of activity record book 	

				<p>mummy restraint)</p> <ul style="list-style-type: none"> • Use of safety devices: side rails and any others • Give therapeutic Positions (Supine, Fowlers, lateral, prone, Sim's, Trendelenburg, Dorsal recumbent, Lithotomy, Knee chest) • Maintain hygiene of patient (bed bath, assisted bath, hair shampoo, oral care, nail & foot care, eye, ear & nose care, care of denture, hearing aids & contact lens, perineal care) • Performs pressure points care • Pressure sore risk assessment by using Norton & Braden scale. • Pain Pain assessment by using different scale • Administer hot & cold • Perform nutritional assessment 		
--	--	--	--	--	--	--

			<ul style="list-style-type: none"> • Perform NG tube insertion, NG tube feeding • Assist in gastrostomy, Jejunostomy • Assist in administering TPN • Provide urinal & bed pan to patient • Collect & handle urine specimen for diagnosis • urinary catheterization & catheter care • Administer enema & suppository • Assist in stoma care • Perform range of motion exercise, assist in lifting, transferring, turning & moving the client • Oxygen administration • Inhalations: Dry and moist • Deep breathing exercises & incentive spirometry • Maintain intake output chart 	Practice in lab & ward.	<ul style="list-style-type: none"> • Assess observation study with checklist Evaluate all procedures with checklist
	10 (included in Mandatory module 1)	<ul style="list-style-type: none"> • Perform infection control procedures. 	<p>Infection control in Clinical setting</p> <ul style="list-style-type: none"> • Hand washing: medical & surgical • Isolation 	<ul style="list-style-type: none"> • Visit CSSD • Write observation report -1 • Do clinical posting in infection 	<ul style="list-style-type: none"> • Assess observation study with checklist • Evaluate all procedures with checklist

				precaution <ul style="list-style-type: none"> • Personal protecting equipment • Transmission based precautions • Biomedical Waste management: importance, categories of hospital waste & process of Biomedical Waste management • Transportation of infected patients • Body fluid spill management 	control department <ul style="list-style-type: none"> • Write a report (Observation study-2) • Practice in lab & ward. 	
		20	<ul style="list-style-type: none"> • Administers drugs through enteral and parental routes 	Administration of Medications <ul style="list-style-type: none"> • Dose calculations, conversion & preparation of solutions. • Administer drugs in different route: Enteral: Oral, sublingual and Buccal, NG tube Parental: Intradermal, Subcutaneous, Intramuscular, Intravenous. Topical: skin, mucous membrane, gargles, Direct application, transdermal patch,	<ul style="list-style-type: none"> • Practice in lab & ward. 	<ul style="list-style-type: none"> • Assessment of each skill with rating scale • Completion of activity record book

				spraying throat Instillations: eye, ear, nose, vaginal, rectal Inhalation: MDI, nasal Inhalers Irrigation		
	8	<ul style="list-style-type: none"> • Provides care to pre-& postoperative patients. • Performs procedures for care of wounds. 	Meeting Needs of Perioperative Clients <ul style="list-style-type: none"> • Preparation of pre & post-operative patient unit. • Skin preparation • Shifting the patient to OT • Post-operative patient monitoring • Wound care • Suture care • Drainage care 	<ul style="list-style-type: none"> • Practice in lab & ward. 	<ul style="list-style-type: none"> • Assessment of each skill with rating scale • Completion of activity record book 	
	4	<ul style="list-style-type: none"> • Provide care to dying and dead patient. • Counsel, support and provide bereavement care to family. 	Care of Terminally ill patient, death & dying <ul style="list-style-type: none"> • Identify clinical sign of death. • Perform last office care • Provide counselling & support to relative/families in grief 	<ul style="list-style-type: none"> • Practice in lab & ward. 	<ul style="list-style-type: none"> • Assessment of each skill with rating scale • Completion of activity record book 	

		4	Performs and interprets diagnostic tests for the patient	<p>Diagnostic testing</p> <p>Specimen collection:</p> <ul style="list-style-type: none"> • Blood: CBC, LFT, RFT, lipid profile, electrolytes, glucose, peripheral smear, culture, coagulation profile. • Stool: routine & microscopic examination • Urine: RE/ME, specific gravity, timed, culture • Sputum: culture, gram staining • Perform blood sugar monitoring • Urine testing by strip method <p>Prepare the patient for:</p> <ul style="list-style-type: none"> • Radiologic investigation: CT scan, X-Ray, MRI, USG • Endoscopic Procedures: upper GI endoscopy, colonoscopy 	Collection of samples for culture.	<ul style="list-style-type: none"> • Practice in lab & ward. 	<ul style="list-style-type: none"> • Assessment of each skill with rating scale • Completion of activity record book

		20 (include d as mandat ory module no.2	Provided first aid management of common conditions	First Aid & emergencies <u>First Aid Management of:</u> <ul style="list-style-type: none"> • Wounds, Haemorrhage & Shock • Bandaging: purpose, principle, type & techniques of bandaging. • Musculoskeletal Injuries: • Fractures, Dislocation, Muscle injuries & Transportation of Injured persons • Drowning • Foreign Bodies- Skin, Eye, Ear, Nose, Throat & Stomach • Burns & Scalds • Poisoning, Bites & stings • Frostbite & Heat stroke • Basic life support • Role of nurse in community disaster 		
--	--	---	--	---	--	--

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

RS-1 Psychosocial Nursing

Placement: First year

Time: 50 Hours (Theory)

Paper No	Subject	Internal Assessment	Final Exam	Total Marks
T/VI	Psychosocial Nursing	25(15+10)	75(40+35)	100

Section-A: Introduction to Psychology

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
T/VI Section A	Introduction to Psychology	1 ½ hours	40

Question paper pattern

Essay type question : 2 x 10 = 20 Marks
Short Notes : 2 x 5 = 10 Marks
Short answer questions: 5 x 2 = 10 Marks

Note:

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

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

COMPETENCIES:

1. Identify the importance of psychology in individual and professional life
2. Develop understanding of the biological and psychological basis of human behaviour
3. Identify the role of nurse in promoting mental health and dealing with altered personality
4. Perform the role of nurses applicable to the psychology of different age groups
5. Identify the cognitive and affective needs of clients
6. Apply various Cognitive processes in individual and professional life
7. Integrate the principles of motivation and emotion in performing the role of nurse in caring for emotionally sick client
8. Demonstrate basic understanding of psychological assessment and nurse's role.
9. Handle the clinical sessions independently with or without help of teachers.
10. Apply the knowledge of self-empowerment in workplace, society and personal life.

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	5	Describe the history, scope & methods of psychology.	<p>Introduction</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • History and origin of science of psychology • Relevance to nursing • Methods of psychology • Concept of biology of human behavior <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Branches of psychology • Personal and social adjustment. • Muscular and glandular controls of behaviour <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Scope of psychology 	Lecture cum discussion	<ul style="list-style-type: none"> • Essay type • Short notes Short answer questions
II	5	Explain the psychological needs of various age groups	<p>Developmental psychology</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Psychological needs of various groups in health and sickness- Infancy, childhood, adolescence, adulthood and old age <p><u>Desirable to know</u></p>	Lecture cum discussion	<ul style="list-style-type: none"> • Essay type • Short notes Short answer questions

			<ul style="list-style-type: none"> Psychology of vulnerable individuals -challenged, women, sick etc. <p><u>Nice to know</u></p> <ul style="list-style-type: none"> Role of nurse with vulnerable groups 		
III	17	Describe various cognitive processes & their applications.	<p>Cognitive Processes:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> Attention: Types, determinants, Duration & degree and alterations Perception: Meaning, Principles, factors affecting and Errors Learning: Nature, Types, Learner and learning, Factors influencing, laws and theories, process, transfer and study habits Memory: Meaning, Types, Nature, Factors influencing, Development theories and methods of memorizing & forgetting Thinking: Types and levels, stages of development, Relationship with language and communication Intelligence: Meaning, classification, measurement, uses and theories Aptitude: Concept, types, Individual differences and variability <p>Applications</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> Alterations in cognitive process Development of Aptitude of a person <p><u>Nice to know</u></p> <p>Applications of cognitive processes.</p>	<ul style="list-style-type: none"> Lecture cum discussion Psychometric assessment. 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions
IV	7	Describe motivation, emotions, stress, attitudes &	<p>Motivation and Emotional processes:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, 	<ul style="list-style-type: none"> Lecture cum discussion Role plays. Case Discussion Demonstration 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

		<p>their influence on behavior.</p>	<p>Conflicts and frustration.</p> <ul style="list-style-type: none"> • Emotions & stress ○ Emotion: Definition, components, Changes in emotions, theories, emotional adjustment, emotions in health and illness ○ Stress: stressors, cycle, effect. • Attitude: Meaning, nature, development and factors affecting, ○ Behaviour and attitudes <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Conflict resolution • Adaptation & coping • Attitudinal changes • Theoretical interpretations <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Alterations in emotions • Attitude impact on behaviour. • Manipulation of motives 		
V	7	<p>Explain the concepts of personality & its influence on behavior.</p> <p>Explain ego defence mechanisms</p>	<p>Personality:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Definitions, topography, types and Theories • Psychometric assessments of personality, objective test, subjective test. • Applications • Aspect of psychoanalysis and Defence mechanisms <p><u>Desirable to know</u></p> <p>Personality assessment: objective test, projective test</p> <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Alternations in personality. • Use of ego Defence in behaviour 	<ul style="list-style-type: none"> • Lecture cum discussion • Demonstration 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
VI	4	<p>Explain the psychological assessment & role of nurse.</p>	<p>Psychological assessment and tests</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction • Types, development, characteristics, principles, uses • Psychometric assessments of cognitive processes, emotion & attitude. 	<ul style="list-style-type: none"> • Lecture cum discussion • Demonstration 	<ul style="list-style-type: none"> • Short notes • Short answer questions

			<p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Interpretation of psychological assessment and tests. <p><u>Nice to know</u></p> <p>Role of nurse in Psychological assessment</p>		
VII	5	Describe the characteristics of mentally healthy person.	<p><u>Must Know</u></p> <p>Mental health and mental hygiene</p> <ul style="list-style-type: none"> • Concept of mental hygiene and mental health. • Characteristics of mentally healthy person • Warning signs of poor mental health <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • personal & social adjustment <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Promotive and preventive mental health strategies and services. 	<ul style="list-style-type: none"> • Lecture cum discussion • Case Discussion • Role play • Demonstration 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

RS-1 Psychosocial Nursing
Section B: Introduction to Sociology

Placement: First year

Time: Theory – 50 Hrs
Practical- Nil

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
T/VI Section B	Introduction to Sociology	1 ½ hours	35

Question paper pattern

Essay type question : 1 x 10 = 10 Marks
Short Notes : 3 x 5 = 15 Marks
Short answer questions: 5 x 2 = 10 Marks

Note:

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

Course Description: This course is designed to introduce the concepts of sociology related to community, hospital and Social institutions in India and its relationship with health, illness and nursing. It further provides students opportunity to recognize the significance and application of soft skills and self-empowerment in the practice of nursing.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Identify the scope and importance of sociology in Nursing
2. Integrate the knowledge of clinical sociology and its uses in crisis intervention
3. Acquires knowledge about interrelationship of individual in society and community
4. Appreciate the process of socialization and individualization and social context of health, disease and sickness
5. Identifies various social groups, different type of caste, class, social change and its influence on health and health practice
6. Understand about culture diversity and uniformity, sociocultural factors and its impact on health and disease
7. Understands about type of family and their influence on health and health practices.
8. Describes caste system, type of social stratification and their influence on health and health practices.
9. Develop understanding about social organization, social norms and values.

10. Appreciate the process of social control, norms and values and role of nurse.
11. Develop understanding about population distribution, its explosion and its impact on health status
12. Perform the role of nurse in dealing with social problems in India
13. Enumerates health, illness and nursing practice within the context of society and community.

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	04	State the importance of sociology in nursing.	<p>Introduction to sociology</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Definition, Nature and objectives, scope of sociology • Relevance of general and medical sociology • Importance of Sociology in nursing <p><u>Desirable to know</u></p> <p>Historical development of sociology</p> <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Sociology of health and disease 	Lecture cum Discussion	<ul style="list-style-type: none"> • Short notes • Short answers
II	03	Describes the nature and scope of clinical sociology	<p>Clinical Sociology</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction, concepts and approaches • Nature and scope of clinical sociology <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Difference between clinical and general sociology. <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Social epidemiology: Approaches 	Lecture cum Discussion	<ul style="list-style-type: none"> • Short notes • Short answers

			<ul style="list-style-type: none"> • Application of clinical sociology to nursing profession 		
III	05	<ul style="list-style-type: none"> • Describes society and community • States the differences between Society & community 	<p>Society</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Society: Meaning, definition and its nature • Community: Meaning, definition and nature • Difference between society and community • Process of socialization and individualization <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Social context of health, disease, illness and sickness <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Personal disorganization in nursing profession and measures to overcome it. • Emerging nexus between human health and society 	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answers
IV	05	Identify various social groups & their interactions.	<p>Social Groups and Processes</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Social group: Meaning, definition and classification • Social processes and its uses in nursing process (Co-operation, competition and conflict) 	<ul style="list-style-type: none"> • Lecture cum Discussion • Panel Discussion 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers

			<p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Colley's classification: Primary and secondary <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Class based in equalities and health status • Illness as a social deviance 		
V	05	Describe the influence of culture on health & disease	<p>Culture</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Marriage :- Meaning family and functions of Marriage • Culture: Meaning, definition and nature of culture • Diversity and uniformity of culture • Socio cultural factors bearing on health in India <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Influence of culture on health and disease <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Modernization and its impact on health and disease 	Lecture cum Discussion	<ul style="list-style-type: none"> • Essay type • Short notes • Short answers
VI	05	Describe the institutions of family & marriage in India.	<p>Family and Marriage</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Marriage- Meaning, forms & functions of marriage • Family- Meaning, forms, Definitions, types, features & functions • Nuclear and Joint family system • Impact of family and marriage on health practices <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Recent changes in Indian 	• Lecture cum discussion	<ul style="list-style-type: none"> • Essay type • Short notes • Short answers

			<p>family system</p> <ul style="list-style-type: none"> • Marriages and family problems in India <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Legislations related to family and marriage 		
VII	04	Describe the class & caste system & their influence on health & health practices.	<p>Social Stratification</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Meaning, definition and types of social stratification • Indian caste system • Influence of class on health <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Social mobility • Changing features of caste system in present India <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Social class system and its relevance in Indian society • Class based inequalities and health status 	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Short notes • Short answers

VII I	05	Describe the social system & interrelationship of social organizations.	<p>Social organization and Social systems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Meaning, definition and types of social organization • Hospital as a social organization • Social system: definition and types • Social norms, moral and values <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Social distance between nurses and patient <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Commercialization of health care services 	<ul style="list-style-type: none"> • Lecture cum Discussion • Community survey 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answers • Assessment of report on community survey
IX	05	Explain the nature & process of social control	<p>Social Control</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Meaning, definition and nature of social control • Norms, values, customs, tradition, folkways and mores • Role of nurse to control health in community <p><u>Desirable to know</u></p> <p>Need of social control in hospital setting</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Community survey 	<ul style="list-style-type: none"> • Essay type • Short answers • Assessment of report on community survey
X	05	Explain the growth of population in India & its impact on health	<p>Society and Population</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Malthusian theory of population • Measures to reduce the population explosion • Role of nurse to implement 	<ul style="list-style-type: none"> • Lecture cum Discussion • Community survey • Visits to rural & 	<ul style="list-style-type: none"> • Essay • Short answers • Assessment of report on community survey

			<p>small family norms</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Impact of population explosion on health status 	urban community	
XI	04	Describe the role of nurse in dealing with social problems in India.	<p>Social Problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Poverty, Illiteracy and rights of individual, women and children • Vulnerable groups: elderly, handicapped, substance abuse and HIV /AIDS, mental illness & associated stigma • Corruption: Meaning, types, causes and consequences • Role of nurse in dealing with the social problems <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Terrorism: meaning, types causes, consequences and Remedial measures <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • National programs for women's, children and elder 	Lecture cum Discussion	<ul style="list-style-type: none"> • Short notes • Short answers

RS-1 Communicative English

Placement: I year

Duration: Theory 40 Hrs

Scheme of Examination

Paper	Subject	Internal Assessment	Final Exam*	Total Marks
T/VII	Communicative English	10	40	50

*conducted internally

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Max. Marks Final Exam
T/VII	Communicative English	2 Hours	40

Question Paper Pattern

Essay type question : 2 x 10 = 20 Marks
Short Notes : 2 x 5 = 10 Marks
Short Answer type : 5 x 2 = 10 Marks (fill in blanks and matching)

Course Description:

The course is designed to enable students to enhance ability to speak and write the language (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.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Identify the significance of Communicative English for healthcare professionals
2. Apply the concepts and principles of English Language use in professional development such as pronunciation, vocabulary, grammar, paraphrasing, voice modulation, Spelling, pause and silence
3. Demonstrate attentive listening in different hypothetical situations
4. Converse effectively, appropriately and timely within the given context as an individual or to the team they are communicating with either face to face or by other means
5. Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc...
6. Analyse the situation and apply critical thinking strategies
7. Enhance expressions through writing skills
8. Apply LSRW (Listening, Speaking, Reading and Writing) Skill in combination to learn, teach, educate and share information, ideas and results.

Unit no	Hours	Learning	CONTENT	Teaching Learning	Assessment
---------	-------	----------	---------	-------------------	------------

		Objectives		Activities	Methods
I	3	Develops communication skills	<p>COMMUNICATION</p> <p>Must know</p> <ul style="list-style-type: none"> • Communication Basics in Professional Communication in nursing <p>Desirable to know</p> <ul style="list-style-type: none"> • Variance of communication in different companies-at hospital, railway station, a road work, in meeting etc <p>Nice to know</p> <ul style="list-style-type: none"> • Communication in public sectors 	<ul style="list-style-type: none"> • Lecture cum Discussion Practice Session 	<ul style="list-style-type: none"> • Objective Type. • Short Answer Questions. • Assessment of Practice
II	5	Review basic grammar Develop communication clues, reading and comprehensive skills	<p>Introduction to Listening Speaking Reading Grammar Writing (LSRGW)</p> <p>Must Know</p> <ul style="list-style-type: none"> • Grammar-rules related to • subject-verb-agreement, tense, preposition, adjective, voice change-direct & indirect speech. <p><i>Vocabulary</i></p> <ul style="list-style-type: none"> • <i>Pronunciation</i> • <i>Paraphrasing</i> • <i>Voice Modulation</i> • <i>Non-Verbal Communication</i> 	<ul style="list-style-type: none"> • Lecture cum Discussion Practice Session 	<ul style="list-style-type: none"> • Short notes. • Short answer type • Assessment of Practice

			<p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Communication in various health care setting <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Real time Communication (case study on different situations, communication at work place) • Phonetics 		
III	5	Demonstrates various attentive learning skills	<p>Attentive Listening</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Importance of Listening • Types of Listening • Reproducing Verbatim • Listening to academic talks/ lectures • Listening to presentation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Listening in different situations- instructions, discussions, demonstrations <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Listening announcements, descriptions, narratives, 	<ul style="list-style-type: none"> • Lecture cum Discussion Practice Session 	<ul style="list-style-type: none"> • Essay Type. • Short Answers Assessment of Practice
IV	9	Develops effective oral communication	<p>Speaking-Effective Conversation</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Types of oral communication • Key elements in oral communication • Greetings • Introductions • Permission seeking • Request making 	<ul style="list-style-type: none"> • Panel Discussion Practice Session 	<ul style="list-style-type: none"> • Essay Type. • Short Answers Assessment of Practice

			<ul style="list-style-type: none"> • Giving Directions and comparing. • Complaints and suggestions. • Telephone conversations <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Public Speaking • Motivational Speaking • International English Language Testing System Test of English as Foreign Language <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Scientific paper Presentation Skills • Describing people, places, events and things, narrating, reporting & reaching conclusions 		
V	5	Demonstrates Reading and comprehension skills	<p>Reading</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Reading strategies, reading notes and messages. • Comprehend • Everyday Vocabulary • Medical Vocabulary • Comprehending Visuals, graphs and figures • Idiomatic Expressions • Phrasal Verb <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Techniques of Speed-Reading • New Reading <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Comprehending Passage • Medical Vocabulary 	<ul style="list-style-type: none"> • Lecture cum Discussion Practice Session 	<ul style="list-style-type: none"> • Extempore • Group discussion Debates

			<ul style="list-style-type: none"> • Reading relevant articles and news items 		
VI	5	Demonstrates written communication skills	<p>Writing Skills</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • <i>Writing Patient history</i> • <i>Note Making</i> • <i>Summarising</i> • <i>Letter Writing</i> • <i>Report Writing</i> • <i>Anecdotal Records</i> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Script Writing • Article Writing <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Paper Writing • Diary/Journal Writing • Abstract Writing 	<ul style="list-style-type: none"> • Lecture cum Discussion • Practice Session 	<ul style="list-style-type: none"> • Short notes • short answer questions
VII	8	Demonstrates Listening, speaking, reading and writing skills	<p>LSRW SKILLS</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Oral Presentation • Debate • Group Discussion <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Error Analysis regarding LSRW <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Critical Thinking strategies 	<ul style="list-style-type: none"> • Lecture cum Discussion • Practice Session 	<ul style="list-style-type: none"> • Essay Questions • short answer questions

RS- 1 Computers & Nursing Informatics

Placement: First year

Time: Theory – 30 Hrs
Practical- 30 Hrs

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Internal	Max. Marks Final Exam
T/VIII	Computers & Nursing Informatics*	2 Hours	10	40

*conducted internally

Question Paper Pattern

Essay type question : 2 x 10 = 20 Marks
Short Notes : 2 x 5 = 10 Marks
Short Answer Type : 5 x 2 = 10 Marks (fill in blanks and matching)

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

Course Description: This course is designed to equip novice nursing students with knowledge and skills necessary to deliver efficient informatics- led health care services.

COMPETENCIES:

On completion of the course, the students will be able to

1. Develop a basic understanding of computer application in patient care and nursing practice
2. Apply the knowledge of computer and information technology in patient care and nursing education, practice, administration and research
3. Describe the principles of health informatics and its use in developing superior healthcare
4. Demonstrate the use of information system in healthcare for patient care and utilization of nursing data
5. Apply the knowledge of interoperability standards in clinical setting
6. Demonstrate the skills of using data in management of health care
7. Apply the knowledge of the principles of digital ethical and legal issues in clinical practice

Unit no	Hours		Learning Objective	CONTENT	Teaching Learning Activities	Assessment methods
	Th	Pr				
I	3	5	Identify & define various concepts used in computer.	<p>Introduction</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Concepts of Computer • Characteristics and generation of Computers • Basic Organization of Computer <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Hardware and software technology • Machine Language <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Evolution of computer • current trends of computer technology 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration 	<ul style="list-style-type: none"> • Short notes • Short answer type
II	7	12	<ul style="list-style-type: none"> • Describe and Use the Disk Operating System. • Demonstrate skill in the use of MS Office. 	<p>Disk operating system</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction to disk operating system DOS • Windows (All version) • Introduction MS-Word, MS- Excel with pictorial presentation, MS- Access, MS-PowerPoint <p><u>Desirable to know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion. • Demonstration • Practice Session 	<ul style="list-style-type: none"> • Short notes. • Short answer type • Practical Exam

				<ul style="list-style-type: none"> • User Interfaces • File extension system <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • User with system communication • Number system 		
III	10	10	<ul style="list-style-type: none"> • Demonstrate skill in using multi-media. • Identify features of computer aided teaching and testing. • Demonstrate various uses of computers in Nursing. 	<p>Uses of computer and applications</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Uses of computers and applications <p>Multimedia: Types & uses of computer in teaching & test.</p> <ul style="list-style-type: none"> • Uses of Internet & E-mail <p>Statistical packages & it's uses</p> <p>Applications of computer</p> <p>Applications of computers in Nursing.</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Management support system • Database Management <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Cloud based data management • Distributed data management 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration 	<ul style="list-style-type: none"> • Short notes. • Short answer type • Practical Exam • Viva voce
IV	10	3	<ul style="list-style-type: none"> • Describe about Nursing Informatics. • Apply 	<p>Nursing informatics</p> <p><u>Must know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion. • Demonstration • Practice 	<ul style="list-style-type: none"> • Short notes. • Short answer type • Practical Exam

			<p>Nursing informatics in hospital and community.</p>	<p>Nursing Informatics</p> <ul style="list-style-type: none"> • General purposes • Uses of computer in nursing practices • Patient Record System • Nursing Records & Reports • Management information and evaluation system (MIES) • E- Nursing, Telemedicine, Telenursing. • Electronic medical records <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Computer based patient record system • Clinical decision support system <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Patient monitoring devices • ToT in healthcare 	<p>Session</p>	<ul style="list-style-type: none"> • Viva voce
--	--	--	---	---	----------------	---

RS-1 REGIONAL LANGUAGE-ODIA

Placement – I Year

Theory hours: 30

Scheme of examination (Theory / Written)

Paper	Subject	Duration	Internal	Final Exam*
T/IX	Hindi/Regional Language	2 Hours	10	40

*conducted internally

Question Paper Pattern

Essay type question : 1 x 10 = 10 Marks
Short Notes : 2 x 5 = 10 Marks
Short Answer Type : 10 x 2 = 20 Marks (fill in blanks and matching)

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

Course Description: This course is designed to equip novice nursing students with knowledge and skills necessary to communicate effectively with patients.

COMPETENCIES

At the end of the course the students shall be able to:

1. Demonstrate ability to read and write simple Odia.
2. Translate from English to Odia and retranslate.
3. Demonstrate effective communication skill with the patient.
4. Perform history collection in Odia.
5. Perform effective delivery of health education to patient

Unit no.	Time (Hrs)	Learning objectives	Content	Teaching Learning Activities	Assessment Methods
I.	7	<ul style="list-style-type: none"> • Able to read & write the alphabets • Distinguish vowels & consonants • Explain the use of vowels • Read & write cardinal & ordinal numbers 	<p>Must Know</p> <ul style="list-style-type: none"> • Alphabets-vowels, signs of vowels • Alphabets- consonants • Conjunct consonants • Words using vowels & consonants • Cardinal numerals • Ordinals <p>Desirable to know</p> <ul style="list-style-type: none"> • Identify vowels & consonants from a given word 	<ul style="list-style-type: none"> • Lecture cum discussions • Practice sessions 	<ul style="list-style-type: none"> • Short notes • Short answer Questions

Unit no.	Time (Hrs)	Learning objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> Identify & write the cardinals & ordinals 		
II	7	<ul style="list-style-type: none"> Identify & name the fruits, vegetables & body parts Able to tell the names of diseases Able to tell the names of foods & drinks 	<p>Must know</p> <ul style="list-style-type: none"> Vegetables & fruits Time, days, weeks & directions Family Parts of body Different stages of body Disease Foods & drinks <p>Desirable to know</p> <ul style="list-style-type: none"> List out the symptoms of common diseases in Odia 	<ul style="list-style-type: none"> Lecture cum discussions Practice sessions 	<ul style="list-style-type: none"> Short notes Short answer Questions
III	6	<ul style="list-style-type: none"> Able to identify & make proper use of noun, pronoun, adjectives, articles & verbs Explain the content & underlying meaning in a text 	<p>Must Know</p> <ul style="list-style-type: none"> Noun & pronoun Adjective & article Verb Cases, gender, number Tense-present Tense-past & future <p>Desirable to know</p> <p>Interacts with the patient in Odia</p> <p>Nice to know</p> <p>Clarify the queries of patients in OPD & IPD</p>	<ul style="list-style-type: none"> Lecture cum discussions Practice sessions 	<ul style="list-style-type: none"> Short notes Short answer Questions
IV	6	<ul style="list-style-type: none"> Explain meaning of words & phrases Able to make sentences using two, three & more words, with knowledge of tense. Able to write and explain about self, family, aims, institution Able to communicate 	<p>Must Know</p> <ul style="list-style-type: none"> Making sentences using two words Making sentences using three words Conversation- about me, about my family Conversation about the institution, about your aim Conversation about your profession, state Conversation with the patients at the time of treatment 	<ul style="list-style-type: none"> Lecture cum discussions Practice sessions 	<ul style="list-style-type: none"> Essay type question Short notes Short answer Questions

Unit no.	Time (Hrs)	Learning objectives	Content	Teaching Learning Activities	Assessment Methods
		<p>with the patients</p> <ul style="list-style-type: none"> Form the habit of reading and listening for pleasure & information 	<ul style="list-style-type: none"> Common instructions <p>Desirable to Know</p> <ul style="list-style-type: none"> Maintain good therapeutic IPR with patients Read small story or article in Odia Speak about health care tips <p>Speak about common preventive measures</p> <p>Nice to know</p> <p>Instruct the patients about do's and don'ts for the disease</p>		
V	4	Can translate from English to Odia & Odia to English	<ul style="list-style-type: none"> History collection format translation Translation Retranslation <p>Desirable to Know</p> <ul style="list-style-type: none"> Give health education on priority issues to the patients <p>Nice to know</p> <ul style="list-style-type: none"> Make the patient understand the discharge advice, medication protocol etc. 	<ul style="list-style-type: none"> Lecture cum discussions Practice sessions 	<ul style="list-style-type: none"> Essay type question Short notes Short answer Questions

B.Sc. (Hons) NURSING II YEAR

RS- 1 Pharmacology and Pathology

Placement: Second year

Scheme of Examination (Theory/Written)

Paper No	Subject	Duration (Hr)	Internal Assessment	Final Exam	Total Marks
T/X	Pharmacology and Pathology	3	25 (15+10)	75 (45+30)	100

Section A: Pharmacology

Placement: Second year

Time: Theory – 60 Hrs

Scheme of Examination (Theory/Written)

Paper	Subject	Duration (Hr)	Max. Marks (Final Exam)
T/X Section A	Pharmacology	1 1/2	45

Question Paper Pattern

Essay type question : 2 x 10 = 20 Marks

Short Notes : 3x 5 = 15 Marks

Short Answer type : 5 x2 = 10 Marks

Note:

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

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

COMPETENCIES:

On completion of the course, the students will be able to

1. Describe pharmacokinetics and pharmacokinetics
2. Review the principles of drug calculation and administration
3. Explain chemotherapy of specific infections and infestations
4. Explain the commonly used antiseptics and disinfectants
5. Describe the pharmacology of drugs acting on the Gastrointestinal system
6. Describe the pharmacology of drugs acting on the respiratory system
7. Explain the drugs used in the treatment of urinary system disorders
8. Explain drugs used in deaddiction and poisoning
9. Explain about Immuno suppressants and immunization drugs
10. Review about deficiencies of vitamins and minerals
11. Explain the drugs used in the treatment of ENT, Skin and Mucous membrane
12. Describe the drugs used on Autonomic nervous system
13. Explain the drugs used in the treatment of central nervous system
14. Describe drugs used in the treatment of cardiovascular and blood disorders
15. Explain the drugs used for hormonal replacement and for the pregnant women during antenatal, intra natal and postnatal period
16. Discuss the role and responsibilities of nurses towards safe administration of drugs used to treat disorders of various systems with basic understanding of pharmacology
17. Demonstrate awareness of common drugs used in alternative system of medicine

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	5	Describe Pharmacodynamic, Pharmacokinetics, Classification, Principles of Administration of Drugs.	<p>Introduction</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Definitions • Branches, nature & sources • Terminology used. • Types: Classification • Abbreviations, Prescription, Drug calculation, Weights and measures. <ul style="list-style-type: none"> • Dosage forms. 	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Therapeutic, adverse, Toxic effects. • Review: Factor Modifying Dose, Route and Principles of Administration of drugs • Rational use of drugs & principles of therapeutics <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Pharmacodynamics: Actions, Drug Antagonism, Synergism, Tolerance, Receptors, • Medication errors and ADR reporting <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Pharmacokinetics: Absorption, Bioavailability, Distribution, Metabolism, Interaction, Excretion • Indian pharmacopoeia: Legal Issues, drug Laws, Schedule drugs. 		
II	9	Explain chemotherapy of specific infections & infestations & nurse's responsibilities	<p>Chemotherapy</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • General Principles of use of antimicrobials, etc. <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of Commonly used</p> <ul style="list-style-type: none"> • Penicillin, • Cephalosporin's, • Amino glycosides, 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<p>Macrolide & broad-spectrum antibiotics,</p> <ul style="list-style-type: none"> • Sulphonamides quinolones, others. <p>Antimicrobials, Anaerobic infections,</p> <ul style="list-style-type: none"> • Antimalarials, Anthelmintics, Anti scabies agents, • Antiviral, Antifungal agents, • Antitubercular drugs, Antileprosy drugs, • Anticancer drugs, <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Penicillin, Cephalosporin's, • Amino glycosides, Macrolide & broad-spectrum antibiotics, • Sulphonamides quinolones, others. <p>Antimicrobials, Anaerobic infections,</p> <ul style="list-style-type: none"> • Antimalarials, Anthelmintics, Anti scabies agents, • Antiviral, Antifungal agents, • Antitubercular drugs, Antileprosy drugs, • Anticancer drugs, 		
--	--	--	---	--	--

III	2	Describe antiseptics, disinfectant & insecticides & nurse's responsibilities	<p>Pharmacology of common used</p> <p>Antiseptics & disinfectant</p> <p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <p>Antiseptics, Disinfectants</p> <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of Antiseptics, Disinfectants</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Short notes • Short answer
IV	2	Describe drugs acting on gastrointestinal system & nurse's responsibilities	<p>Drugs acting on Gastrointestinal system</p> <p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <ul style="list-style-type: none"> • Antiemetics • Emetics • Purgatives • Antacids and anti-peptic ulcer drugs • Fluid and electrolyte therapy • Anti-diarrhoeal • Histamines 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Short notes • Short answer

			<p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Antiemetics • Emetics • Purgatives • Antacids and antiseptic ulcer drugs • Fluid and electrolyte therapy • Anti-diarrhoeal • Histamines 		
V	2	Describe drugs acting on respiratory system & nurse's responsibilities	<p>Drugs used on respiratory systems</p> <p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <ul style="list-style-type: none"> • Antiasthmatics • Mucolytics • Decongestants • Expectorants • Antitussives • Bronchodilators • Broncho constrictors • Antihistamines <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Antiasthmatics • Mucolytics • Decongestants • Expectorants • Antitussives • Bronchodilators • Broncho constrictors • Antihistamines 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/presentation 	<ul style="list-style-type: none"> • Short notes
VI	4	Describe drugs acting on urinary system & nurse's	<p>Drugs used on urinary system</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ 	<ul style="list-style-type: none"> • Essay type question • Short notes

		responsibilities	<p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <ul style="list-style-type: none"> • Diuretics and antidiuretics, urinary antiseptics • acidifiers and alkalizers <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Diuretics and antidiuretics, urinary antiseptics • acidifiers and alkalizers • drugs toxic to kidney 	presentation	<ul style="list-style-type: none"> • Short answer
VII	4	Describe drugs used in deaddiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization & immunosuppression & nurse's responsibilities	<p>Miscellaneous</p> <p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <ul style="list-style-type: none"> • Drugs used in deaddiction • Drugs used in CPR and emergency • Vitamins and minerals • Immunosuppressant & Immunostimulants • Antidotes • Vaccines & sera • Common poisons, drugs used for treatment of poisoning & Snake Bite (Including ASV) 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Drugs used in deaddiction • Drugs used in CPR and emergency • Vitamins and minerals • Immunosuppressant & Immunostimulants • Antidotes • Vaccines & sera • Common poisons, drugs used for treatment of poisoning & Snake Bite (Including ASV) 		
VIII	2	Describe drugs skin & mucous membranes & nurse's responsibilities	<p>Drugs used on ENT, skin & mucous membranes</p> <p><u>Must Know</u></p> <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse of commonly used</p> <ul style="list-style-type: none"> • Topical applications for skin eye, ear, nose and buccal, cavity • Antipruritic <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Topical applications for skin eye, ear, nose and buccal, cavity • Antipruritic 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Short notes • Short answer
IX	4	Describe drugs used on nervous system & nurse's responsibilities	<p>Drugs acting on ANS</p> <p><u>Must Know</u></p> <p>Basic and Applied pharmacology including role of nurse of commonly used:</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/ presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Cholinergic and anti-cholinergic • Adrenergic & Nor-adrenergics 		
X	8	Describe drugs used on nervous system & nurse's responsibilities	<p>Drugs acting on CNS <u>Must Know</u> Basis & applied pharmacology of commonly used:</p> <ul style="list-style-type: none"> • Analgesics <ul style="list-style-type: none"> ○ Non-steroidal anti-inflammatory (NSAID) drugs • Antipyretics • Opioids & Non-Opioids • General (techniques of GA, pre anaesthetic medication) & local anaesthetics • Gases: oxygen, nitrous, oxide, carbon-dioxide & others • Hypnotics and sedatives • Muscle relaxants • Anti-psychotics • Antidepressants • Anti-Anxiety drugs • Mood stabilizers • Anticonvulsants • Acetylcholine <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Stimulants ethyl alcohol and treatment of methyl alcohol poisoning 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug study/presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
XI	8	Describe drugs used on cardiovascular system & nurse's	<p>Cardiovascular drugs <u>Must Know</u></p> <ul style="list-style-type: none"> • Haematinics, & 	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type question • Short notes

		responsibilities	<p>treatment of anemia</p> <ul style="list-style-type: none"> • Cardiotonic • Anti-anginal & Antiarrhythmics • Anti-hypertensive & vasodilators • Coagulants & Anticoagulants • Antiplatelets & thrombolytics • Hypolipidemic • Plasma expanders & treatment of shock <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse</p> <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Haematinics, & treatment of anemia • Cardiotonic • Anti-anginal & Antiarrhythmics • Anti-hypertensive & vasodilators • Coagulants & Anticoagulants • Antiplatelets & thrombolytics • Hypolipidemic 	Drug study/ presentation	<ul style="list-style-type: none"> • Short answer
XII	8	Describe drugs used for hormonal disorder & supplementation, contraception & medical termination of pregnancy & nurse's responsibilities	<p>Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Insulin's & oral hypoglycaemic • Thyroid supplements and Suppressants • Steroids, anabolic • Uterine stimulants and relaxants • Oral contraceptives 	<ul style="list-style-type: none"> • Lecture cum Discussion • Observational visit 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Other oestrogen progesterone preparations • Corticotrophin & gonadotropins • Adrenaline • Prostaglandins • Calcitonin, parathormone, vit. D3, calcium metabolism. • Calcium salts • Calcium regulators <p>Composition, action, dosage, route, indications, contraindications, side effects, and role of nurse</p> <p><u>Desirable to know</u></p> <p>Drug Interactions adverse effects & toxicity of</p> <ul style="list-style-type: none"> • Insulin's & oral hypoglycaemic • Thyroid supplements and Suppressants • Steroids, anabolic • Uterine stimulants and relaxants • Oral contraceptives • Other estrogen progesterone preparations • Corticotrophin & gonadotropins • Adrenaline • Prostaglandins • Calcitonin, parathormone, vit. D3, calcium metabolism. • Calcium salts • Calcium regulators 		
--	--	--	--	--	--

XIII	2	Demonstrate awareness of common drugs used in alternative system of medicine.	Introduction to drugs used in alternative systems of medicine: Must Know Ayurveda, homeopathy, Unani and Siddha etc. Role of Nurse in alternative system of medicine.	<ul style="list-style-type: none"> • Lecture cum Discussion Observational visit 	<ul style="list-style-type: none"> • Short notes • Short answer
------	---	---	--	---	---

Section B: Pathology

Placement: Second Year

Duration:40 Hour

Scheme of Examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
T/X Section-B	Pathology	1 ½ hour	30

Question Paper Pattern

Essay type question : 1x 10 = 10 Marks
Short Notes : 2 x 5 = 10 Marks
Short Answer Questions : 5 x 2 = 10 Marks

Note:

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

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

Competencies

At the end of the course the student shall be able to:

- Develop basic understanding about pathology, cellular tissue changes, inflammation and infection and its application in the field of nursing.
- Describe the mechanism and morphologic pattern of tissue response to injury.
- Explain the clinical manifestation and pathological changes in disease conditions of various systems.
- Identify the deviations from normal to abnormal structure and functions of the body systems.
- Understand about various laboratory tests, collection, storage and analysis of blood, CSF, sputum, semen, gastric and duodenal content, Bone marrow tests, urine and faeces in the assessment and monitoring of disease conditions.

Unit	HRS		Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Method
	Th	Pr				
I	6		<ul style="list-style-type: none"> Define the common terms use in pathology. Appreciate the deviations from normal to abnormal structure and functions of the body system 	<p>Introduction <u>Must Know</u> Introduction</p> <ul style="list-style-type: none"> Importance of the study of pathology Definition of terms Methods and techniques Cellular and tissue changes Infiltration and regeneration Inflammations and infections Wound healing Vascular changes Cellular growth, Neoplasms Normal and Cancer cell Benign and Malignant growths Immunity & its types Hypersensitivity reaction <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> In situ carcinoma <p>Disturbances of fluid and electrolyte imbalance</p> <p><u>Nice to know</u> Introduction to autoimmune disease</p>	<ul style="list-style-type: none"> Lecture cum Discussion Seminar 	<ul style="list-style-type: none"> Essay type Short notes Short answers
II	21		<p>Explain Pathological changes in disease conditions of various systems</p>	<p><u>Must Know</u> Special Pathology Pathological changes in disease conditions of various systems:</p> <p>Respiratory tract</p> <ul style="list-style-type: none"> Tuberculosis, Bronchitis, Pleural effusion and pneumonia, Bronchiectasis Bronchial asthma, Chronic obstructive Pulmonary disease & tumours <p>Cardio-vascular system</p> <ul style="list-style-type: none"> Pericardial effusion Rheumatic heart disease 	<ul style="list-style-type: none"> Lecture cum Discussion Seminar Seminar Explain using charts, slides, specimen, X-rays & scans Observation visit to pathology lab 	<ul style="list-style-type: none"> Essay type Short notes Short answers

			<ul style="list-style-type: none"> • Ischemia, infarction • Atherosclerosis • Infective endocarditis <p>Blood Disorders</p> <ul style="list-style-type: none"> • Anaemia and its types <p>Gastro Intestinal Tract</p> <ul style="list-style-type: none"> • Peptic ulcer <p>Intestine: Typhoid, Tuberculosis, amoebic pathology</p> <ul style="list-style-type: none"> • Acute pancreatitis <p>Liver, Gall bladder & Pancreas</p> <ul style="list-style-type: none"> • Hepatitis, Chronic liver abscess, cirrhosis <p>Kidneys & Urinary tract</p> <ul style="list-style-type: none"> • Glomerulonephritis, pyelonephritis, • Calculi, renal failure • cystitis <p>Male genital systems</p> <ul style="list-style-type: none"> • Prostatic hyperplasia, carcinoma Penis & prostate <p>Female genital system</p> <ul style="list-style-type: none"> • Fibroids • Carcinoma cervix and Endometrium • Vesicular mole, choriocarcinoma • Ovarian cyst & tumours <p>Central Nervous system</p> <ul style="list-style-type: none"> • Hydrocephalus, Meningitis, encephalitis, • Stroke, paraplegia, • Quadriplegia <p>Skeletal system</p> <ul style="list-style-type: none"> • Bone healing, • Osteoporosis, <ul style="list-style-type: none"> • Osteomyelitis <p>Others: Cancer Breast</p> <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Lung abscess, emphysema, • Aneurysm 		
--	--	--	--	--	--

				<ul style="list-style-type: none"> • Leukaemia and its types • Carcinoma of GI tract buccal, Esophageal • Gastric & intestinal • Tumours of liver, gall bladder. • Renal carcinoma • Cryptorchidism, testicular atrophy • Vascular disorders • Tumours- meningiomas Gliomas • Arthritis & bone tumours <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Bleeding disorders • Ectopic gestation 		
III	6	2	Describe various laboratory tests in Assessment and monitoring of disease conditions	<p><u>Must Know</u></p> <p>Clinical pathology</p> <p>Various blood and bone marrow tests in assessment and monitoring of disease conditions</p> <ul style="list-style-type: none"> • Haemoglobin • RBC, White cell & platelet counts • Bleeding time, clotting time and prothrombin time • Blood grouping and cross matching • Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Examination of Bone marrow <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Other blood test 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Explain using charts, slides, specimen, X-rays & scans • Observation visit to pathology lab and Blood bank 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answers
IV	1	1	Describe the laboratory tests for examination of body cavity fluid,	<p><u>Must Know</u></p> <p>Examination of body cavity fluids, transudates and exudates</p> <ul style="list-style-type: none"> • The laboratories tests used in CSF analysis. <p>Methods of collection of CSF and other cavity fluids specimen for various clinical pathology,</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Demonstration 	<ul style="list-style-type: none"> • Short notes • Short answers

			transudates and exudates	biochemistry, microbiology tests, inference and normal values <u>Desirable to know</u> <ul style="list-style-type: none"> Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge etc <u>Nice to know</u> <ul style="list-style-type: none"> Analysis of semen sperm count, motility and morphology and their importance in infertility Analysis of gastric and duodenal contents. 		
V	2	1	Describe the laboratory tests for examination of urine and feces	<u>Must Know</u> Urine and Faeces Urine <ul style="list-style-type: none"> Physical characteristics Faeces <ul style="list-style-type: none"> Characteristics Stool examination: occult blood. Methods of collection for various tests, inference and normal values. <u>Desirable to know</u> <ul style="list-style-type: none"> Analysis of urine 	<ul style="list-style-type: none"> Lecture cum Discussion Seminar Demonstration 	<ul style="list-style-type: none"> Short notes Short answers

Practical Competencies

1. Collection of relevant clinical samples.
2. Blood/ CSF/urine/ sputum/ body fluids etc. for different clinical pathological investigations.
3. Follow the Dos and Don'ts while handling different samples
4. Storage and transport of the clinical specimens
5. Standard precautions: hand wash, asepsis and antisepsis.
6. Proper handling of the samples
7. Interpretation of reports.

RS-1 MEDICAL SURGICAL NURSING– I

(Including geriatric nursing)

Placement: Second year

Time: Theory- 210 Hours (including 2 hours for mandatory module on BLS)

Practical/ Clinical- 960 Hours

(including 8 hours for mandatory module on BLS)

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

Scheme of examination (Theory/Written)

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

Question paper pattern

Essay type question: 3 x 10 = 30 Marks

Short Notes: 5 x 5 = 25 Marks

Short answer type: 10 x 2 = 20 Marks

Note:

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

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

Specific Learning Objectives

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

1. Describe the selected medical surgical conditions
2. Recognize treatment modality of medical surgical conditions
3. Explain the ethical and legal aspects involved in care of patients with medical surgical conditions.
4. Justifies the importance of various diagnostic measures in medical surgical nursing.
5. Develop positive attitude in managing patients with selected medical surgical conditions
6. Perform physical assessment of patient with medical surgical conditions
7. Assist in various diagnostic measures pertaining to medical surgical conditions
8. Develop skills in managing patients with medical surgical conditions
9. Perform the role of nurse in the health care management team

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	3	<ul style="list-style-type: none"> • Appreciate the trends in medical and surgical nursing. • Describe the role of a nurse in caring for adult patient in hospital and community. • Describe the concepts of Medical Surgical asepsis. 	<p>Identifies the basic concepts of medical surgical nursing</p> <p><u>Must Know</u></p> <p>Introduction to medical surgical nursing</p> <p><u>Desirable to know</u></p> <p>International classification of disease</p> <p><u>Nice to know</u></p> <p>Review of Nursing process</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Short notes • Short answer
II	12	Describe the common signs, symptoms, problems and their specific nursing interventions.	<p>Describe the common signs, symptoms, problems and their specific nursing interventions</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Fluid imbalance • Electrolyte imbalance • Shock • Incontinence • Inflammation • Wound healing. • Pain • Fever • Unconsciousness, syncope • Edema <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Dyspnoea and cough • Sleep disorder <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Vomiting 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Case Discussion 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

III	20	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of respiratory systems.	<p>Nursing management of patients with respiratory problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Asthma • COPD • Pneumonia • Pulmonary Tuberculosis • Pleural Effusion • Pulmonary Embolism • Pulmonary edema • Acute Respiratory Failure • Atelectasis • Lung Abscess <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Pulmonary Hypertension • Chest injuries <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory system • Sarcoidosis • Interstitial lung disease • Occupational lung Disease 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Seminar/ Case Discussion • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type • question • Short notes • Short answer
IV	30	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of digestive systems.	<p>Nursing management of patients with disorders of digestive system</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Hiatal hernia • Gastritis • Peptic ulcer • Gastric cancer • Intestinal Obstruction • Inflammatory Bowel Disease • Gastro enteritis • Appendicitis • Herniations • Colo rectal Cancer • Ostomies and its care • Haemorrhoids • Abdominal Trauma • Acute Abdomen 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Peritonitis • Pancreatitis • Hepatitis • Cirrhosis • Portal hypertension • Hepatic failure • Cholecystitis • Cholelithiasis • Hepatic failure <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Stomatitis • Gingivitis • Parotiditis • Bleeding and tumours of oesophagus • Diverticular disorders • Ca of hepato biliary system <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory system • Sarcoidosis • Interstitial lung disease • Occupational lung Disease 		
V	15	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with hematologic problems.	<p>Nursing management of patients with hematologic problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Leukaemia • Anaemias • Sickle cell Anaemias • Haemophilia • Blood and blood products: handling and transfusion • Bone marrow transplantation • Bio-safety and waste management in relation to blood transfusion <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Lymphomas • Thalassemia • Thrombocytopenia 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides Health Education • Drug book/ Presentation • Visit to blood bank • Participation in blood donation camp & Counselling 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Multiple myeloma <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of haematologic system • Blood bank functioning and hospital transfusion committee 		
VI	20	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Genito-urinary system.	<p>Nursing management of patients with Genito-urinary problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Calculi of GU • Benign prostrate hypertrophy • Glomerulonephritis • Acute renal failure • Chronic renal failure & ESRD • Dialysis & Renal Replacement therapy • Renal Transplantation • Urinary Tract Infection <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Strictures of GU • Nephrotic syndrome • Nephrosis • Pyelonephritis • CA Bladder& Prostrate • Urinary Diversions • Hydrocele • Varicocele <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of Genito-urinary system • Cystitis • Trauma of Ureter, Bladder, Urethra • Prostatitis 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type • question • Short notes • Short answer
VII	12	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders	<p>Nursing Management of patient with disorders of endocrine system</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Hyperthyroidism • Hypothyroidism 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

		of endocrine system.	<p>Hyperparathyroidism</p> <ul style="list-style-type: none"> • Hyperpituitarism: Gigantism and Acromegaly • Cushing's Syndrome • Addison's Disease • Diabetes Mellitus & Pre-metabolic Syndrome <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Thyroiditis • Hypoparathyroidism • Hypopituitarism • Diabetes Insipidus • Syndrome of inappropriate ADH <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of endocrine system • Pheochromocytoma (Adrenal Tumour) 	<p>charts, graph.</p> <ul style="list-style-type: none"> • Models, films & slides • Health Education • Drug book/ Presentation 	
VIII	12	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of skin.	<p>Nursing management of patient with disorders of Integumentary system</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Eczematous Disorders • Pemphigus • Cellulites • Psoriasis • Skin Cancer • Gonorrhoea • Syphilis <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Acne vulgaris • HPV infection • Genital herpes <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of integumentary system • Lesions & Abrasions • Alopecia 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

IX	18	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of musculoskeletal system.	<p>Nursing management of patient with musculoskeletal problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Osteo arthritis • Rheumatoid arthritis • Osteoporosis • Osteomyelitis • TKR & THR • Fractures • Amputation • IVDP <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • GOUT Arthritis • Reactive arthritis • Osteomalacia • Strains & Sprains • Dislocations • Subluxations • Use of Orthosis & Prosthesis • Scoliosis • Kyphosis • Lordosis <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of musculoskeletal system • Paget's Disease • Muscular Dystrophy 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
X	10	Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Immunological system.	<p>Nursing management of patient with Immunological problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Secondary immunodeficiencies • HIV/AIDS • Transmission and prevention of transmission • Standard Safety precautions • Infection control program • Rheumatic Fever 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation • Orientation visit 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Systemic Lupus Erythematosus <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Primary immunodeficiency <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of immunological system • Phagocytic dysfunction • B-cell and T-cell deficiencies 	to hospital infection control setup	
XI	15	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures & management of patients with disorders of Ear Nose & Throat	<p>Nursing management of patient with disorders of ear, nose and throat</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Tympanic membrane perforation • Acute Otitis media • Chronic Otitis media • Meniere's disease • Epistaxis • Rhinitis • Sinusitis • Deviated nasal septum • Tonsillitis <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Labyrinthitis • Foreign bodies in ear, nose & throat • Deafness: Prevention, control and rehabilitation (Hearing aids, implanted hearing devices) • Nasal polyps • Pharyngitis <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of ear, nose and throat • Speech defects and speech therapy 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book /presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Adenoiditis • Peritonsillar abscess • Ototoxicity 		
XII	15	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures & management of patients with disorders of Eye	<p>Nursing management of patient with disorders of eye</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Nursing assessment-history and physical assessment • Conjunctivitis • Keratitis • Cataract • Glaucoma • Blindness • Myopia • Hypermetropia • Astigmatism • Presbyopia <p><u>Desirable to Know</u></p> <ul style="list-style-type: none"> • Hordeolum • Chalazion • Eye-banking • Eye prosthesis and rehabilitation • Eye camps • Role of nurse in communication with visually impaired patients <p><u>Nice to Know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of eye • Blepharitis • Uveitis • Retinal detachment • Retinitis 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book /presentation • Visit to eye bank • Participation in eye-camps 	<ul style="list-style-type: none"> • Essay type • question • Short notes • Short answer
XIII	8	Explain the concept and problems of aging	<p>Nursing care of the elderly</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Concepts and theories 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs 	<ul style="list-style-type: none"> • Essay type question • Short

			<ul style="list-style-type: none"> of ageing • Common health problems and nursing management • Role of nurse in care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual • Risk assessment and prevention in elderly <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Physiology of ageing • Use of aids and prosthesis (hearing aids, dentures) • Legal and ethical issues • Home and institutional care <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • National program for health care of elderly 	<ul style="list-style-type: none"> • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book /presentation 	<ul style="list-style-type: none"> notes • Short answer
XIV	20 (including 2 hours covered in mandatory module on BLS)	<ul style="list-style-type: none"> • Describe the organization and physical set up of operation theatre. • Identify the various instruments and equipment used for common surgical procedures. • Describe the infection control measures in the Operation Theatre. <p>Describe the role of the nurse in the Peri Operative nursing care.</p>	<p>Peri operative nursing:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Duties and responsibilities of nurse in OT • Principles of operating room attire • Scrubbing procedures • Gowning and gloving • Preparation of OT sets • Monitoring the patient during surgical procedures • Maintenance of therapeutic environment in OT • Standard safety measures • Infection control: fumigation, disinfection and sterilization • Biomedical waste 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Drug book/ Presentation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<p>management</p> <ul style="list-style-type: none"> • Prevention of accidents and hazards in OT <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Classification • OT Design • Staffing • Members of OT team • Legal aspects in OT • Basic instruments set use in OT • Equipment in O T • Sutures and suture materials • OT tables and sets for common surgical procedures • Positions and draping for common surgical procedures <p>Anaesthesia (including mandatory BLS Module)</p> <ul style="list-style-type: none"> • Types • Methods of administration • Effects and stages • Equipment • Drugs <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Pain management techniques 		
--	--	--	---	--	--

Mandatory module 1: BLS

Placement: BSc II year Subject: Medical Surgical Nursing I

Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment Methods
Th	Pr				
2	8	Describe, understand and perform the basic life support	<ul style="list-style-type: none"> • Review of relevant anatomy and physiology of cardiovascular system and respiratory system • Introduction to basic life support course • Adult basic life support 	<ul style="list-style-type: none"> • Lecture cum discussion, Demonstration • Practice sessions 	<ul style="list-style-type: none"> • Return demonstrations • OSCE

Elective module 1: Diabetic care

Placement: BSc II year Subject: Medical Surgical Nursing I

Time (Hrs)		Learning Objective	Content	Teaching Learning Activities	Assessment Methods
Th	Pr				
8	2	Describe diabetes mellitus and provide care to the patients with diabetes mellitus	<ul style="list-style-type: none"> • Review of relevant anatomy and physiology of endocrine system • Diabetes mellitus I & II • Treatment plans for diabetic and pre-diabetic patients • Short term & chronic complications of diabetes and their management • Health education for diabetic patients 	<ul style="list-style-type: none"> • Self-instructional module • video assisted teaching 	<ul style="list-style-type: none"> • Return demonstration • OSCE • MCQ • Short answer question • Essay question

RS-1 Medical-Surgical Nursing– I (Practical/ Clinical)

Placement: Second Year

Time: 960 Hours

(including 8 hours for mandatory module on BLS)

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

Note:

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

PRACTICE COMPETENCIES

On completion of the clinical practicum, the students will be able to apply nursing process and critical thinking in delivering holistic nursing care including rehabilitation to the adult patients undergoing surgery, with shock and fluid and electrolyte imbalance and with selected medical & surgical conditions i.e., Gastrointestinal, Respiratory, Endocrine, Orthopaedic, Dermatology, ENT, Ophthalmology and geriatric clients.

The students will be competent to:

1. Utilize the nursing process in providing care to the sick adults in the hospital
 - a) Perform complete health assessment to establish a data base for providing quality patient care
 - b) Integrate the knowledge of diagnostic tests in the process of data collection
 - c) Identify nursing diagnoses and list them according to priority
 - d) Formulate nursing care plan, using problem solving approach
 - e) Apply scientific principles while giving nursing care to patients
 - f) Perform nursing procedures skilfully on patients
 - g) Establish /develop interpersonal relationship with patients and family members
 - h) Evaluate the expected outcomes and modify the plan according to the patient needs
2. Provide comfort and safety to adult patients in the hospital
3. Maintain safe environment for patients during hospitalization
4. Explain nursing actions appropriately to the patients and family members
5. Ensure patient safety while providing nursing procedures
6. Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients
7. Provide pre, intra and post-operative care to patients undergoing surgery
8. Integrate knowledge of pathology, nutrition and pharmacology for patients experiencing various medical and surgical disorders
9. Integrate evidence-based information while giving nursing care to patients
10. Demonstrate the awareness of legal and ethical issues in nursing practice

Areas	Duration	Objectives	Skills	Assignments	Assessment Method
Medical and Surgical wards & OP (General Medicine, Respiratory, Gastro-enterology, Endocrine, Nephrology, Haematology, General Surgical Ward, Urinary)	320 hours	Provide nursing care to adult patients with medical disorders Counsel & educate patients & families	<p>Nursing care of patients by applying nursing process</p> <p>General Skills</p> <ul style="list-style-type: none"> • History Taking • Performing Physical Examination • Monitoring Vital Signs • Personal Hygienic Nursing procedures • Positioning and posture • Activity and Rest • Comfort measures • Nutritional need • Elimination needs • Collection of specimens • Administering Medications(Oral, IM, IV, ID, SC) • Patient Teaching and counselling <p>Respiratory Nursing Skills</p> <ul style="list-style-type: none"> • Oxygen administration • Steam inhalation • Nebulization • Artificial Airway management • Assist patient with use of spirometer • Operating Mechanical Ventilators • Chest Physiotherapy • Postural Drainage • Care of ICD • Assisting with Bronchoscopy • Assisting with Thoracentesis • Performing oral and endotracheal/tracheostomy suctioning <p>GI Nursing Skills</p> <ul style="list-style-type: none"> • Serving normal diet. • Feeding a helpless patient. • Insertion of a N.G. tube. • Administration of a tube 	<p>Plan and give care to 3-4 assigned patients.</p> <p>Medical Nursing care plan- 1</p> <p>Surgical Nursing care plan- 1</p> <p>Medical Nursing case study/ presentation - 1</p> <p>Surgical Nursing case study/ presentation - 1</p> <p>Drug presentation-1</p> <p>Maintain drug book.</p>	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Vivavoce</p> <p>OSCE</p>

			<p>feeding.</p> <ul style="list-style-type: none"> • Nasogastric aspiration • Feeding through a Gastrostomy/Jejunostomy tube. • Administration of total parental nutrition. • Performing a test feed. • Administering Enema. • Performing a Bowel wash/Colonic lavage. • Performing colostomy, Gastrostomy, Enterostomy care. • Performing colostomy irrigation. • Performing Gastric Suctioning. • Assisting with upper Gastro intestinal Fiberoscopy. • Preparation of and assisting with Colonoscopy. • Assisting with Liver Biopsy. • Assisting with insertion of sengstaken Blakemore Tube/Balloon Tamponade. • Assisting with Abdominal Paracentesis. <p>Hematologic Nursing Skills</p> <ul style="list-style-type: none"> • Administering Blood Transfusion. • Blood Transfusion reactions and Nursing management. • Assisting with Bone Marrow aspiration and biopsy. <p>Genito-Urinary Nursing Skills</p> <ul style="list-style-type: none"> • Performing urinary catheterization • Performing catheter care. • Performing 	<p>Maintain Practical record book.</p>	
--	--	--	---	--	--

			Bladder irrigation. <ul style="list-style-type: none"> • Preparation of patient and assisting with cystoscopy. • Assisting with intravenous pyelography. • Assisting with Renal Biopsy. Endocrine Nursing Skills <ul style="list-style-type: none"> • Administering subcutaneous injection. • Administering Bolus medications through intravenous route. • Administering rectal suppositories. 		
Skin & Communicable diseases Ward & OP	80 hours	Identify skin problems Provide nursing care to patients with skin disorders & communicable diseases Counsel & educate patients & families	Integumentary Nursing Skills <ul style="list-style-type: none"> • Performing wound dressing. • Removal of sutures and staples. • Performing wound irrigation. • Applying topical medications. • Give medicated baths • Practice medical and surgical asepsis-Standard safety measures. • Use of personal protective equipment • Counsel HIV positive patients • Teach prevention of infectious diseases. 	Plan and give care to 3-4 assigned patients. Nursing care plan- 1 Health talk/ Counselling HIV positive patients and families-1 Maintain drug book.	Assess performance with rating scale Assess each skill with checklist Evaluation of clinical assignments Completion of practical record. Viva voce OSCE
Orthopaedic Ward & OP	80 hours	Provide nursing care to patients	Orthopaedic Nursing Skills <ul style="list-style-type: none"> • Assisting with application of splints, slings skin traction and plaster of Paris. • Applying Bandage and Binder. 	Plan and give care to 3-4 assigned patients. Nursing care	Assess performance with rating scale Assess each skill with

		with musculoskeletal disorders Counsel & educate patients & families	<ul style="list-style-type: none"> • Pin site care in skeletal Traction. • Assisting with walking using walker and cane. • Assisting with crutch walking. • ROM and muscle strengthening exercises. 	<p>plan- 1</p> <p>Health talk -1</p> <p>Maintain drug book.</p>	<p>checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Vivavoce</p> <p>OSCE</p>
Peri Operative Nursing	200 Hours (including 8 hours in mandatory module on BLS)	<p>Identify instruments and equipment used in common surgical procedures.</p> <p>Participate in Infection control practices in the Operation Theatre.</p> <p>Set-up the table/ trolley for common operative procedures.</p> <p>Assist in giving anaesthesia.</p> <p>Assist in the</p>	<ul style="list-style-type: none"> • Practice medical surgical asepsis-Standard safety measures • Pre-operative preparation of patients • Scrubbing, gowning, gloving • Identify instruments, suturing materials for common operations • Disinfection, Carbolization, fumigation • Preparation of instrument sets for common operations • Sterilization of sharp 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 • Post-operative preparation, assessment, monitoring and care. • Care of wounds and drainage. • Ambulation and exercise • Disposal of waste as per the guidelines. 	<p>Assist as a circulatory nurse in:</p> <p>Major cases-10</p> <p>Minor cases-5</p> <p>Assist as a scrub nurse in:</p> <p>Major cases-10</p> <p>Minor cases-5</p> <p>Maintain drug book</p> <p>Assignment on OT Instruments</p>	<p>Assess performance with rating scale</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Vivavoce</p> <p>OSCE</p>

		<p>various Operative procedures.</p> <p>Provide peri operative nursing care.</p>			
ENT ward & OP	60 hours	<p>Provide nursing care to patients with ENT Disorders</p> <p>Counsel & educate patients & families</p>	<ul style="list-style-type: none"> • Perform examination of ear, nose & throat • Assist with diagnostic procedures • Assist with therapeutic procedures • Instillation of ear drops/medications • Perform/assist with ear irrigations • Apply ear bandage • Assist with foreign body removal • Perform tracheostomy care • Teach patients and families 	<p>Plan and give care to 3-4 assigned patients.</p> <p>Nursing care plan- 1</p> <p>Maintain drug book.</p>	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Vivavoce</p> <p>OSCE</p>
Ophthalmology ward & OP	60 hours	<p>Provide care to patients with eye disorders</p> <p>Counsel & educate patients & families</p>	<ul style="list-style-type: none"> • Perform examination of eye • Assist with diagnostic procedures • Assist with therapeutic procedures • Perform/assist with eye irrigations • Apply eye bandage • Apply Eyedrops/ointments • Assist with foreign body removal • Teach patients and families 	<p>Plan and give care to 3-4 assigned patients.</p> <p>Nursing care plan- 1</p> <p>Maintain drug book.</p>	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Viva-voce</p> <p>OSCE</p>
Medical ICU	40 hours	<p>Provide care to patients</p>	<ul style="list-style-type: none"> • Assessment of seriously ill patients • Monitor the patient's conditions with 	<p>Plan and give care to 1 assigned</p>	<p>Assess performance with rating scale</p>

		with critical medical illnesses	<p>continuous monitoring equipment</p> <ul style="list-style-type: none"> • Assist with diagnostic and therapeutic procedures • Technical skill in using various equipment 	<p>patient.</p> <p>Nursing care plan- 1</p> <p>Maintain drug book.</p>	<p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Viva-voce</p> <p>OSCE</p>
Surgical ICU	40 hours	<p>Provide comprehensive care to patients immediately and maintain after surgery</p> <p>Detect & manage complications after surgery</p>	<ul style="list-style-type: none"> • Haemodynamic monitoring of patients after surgery, monitor for bleeding and other complications, maintain Fluid & electrolyte balance after surgery • Deep breathing & coughing exercise, Chest physiotherapy, endotracheal and oral suctioning. 	<p>Plan and give care to 1 assigned patient.</p> <p>Nursing care plan- 1</p> <p>Maintain drug book.</p>	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Viva-voce</p> <p>OSCE</p>
Trauma and emergency & Casualty	80 hours	Provide emergency care patients with various medical emergencies	<ul style="list-style-type: none"> • Emergency assessment of patients with medical emergencies • Assist in diagnostic and therapeutic procedures • Counsel and educate patients and families 	<p>Plan and give care to patients.</p> <p>Maintain drug book.</p>	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of clinical assignments</p> <p>Completion of practical record.</p> <p>Viva-voce</p> <p>OSCE</p>

RS- 1 Community Health Nursing - I

(Including MLHP Course)

Placement: Second year

Theory - 100 Hours

Practical -140 hours

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

Scheme of examination (Theory/Written)

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

Question paper pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

Note:

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

Course description:

This course is designed for students to develop broad perspectives of health, its determinants, about community health nursing and understanding about the principles of prevention, promotion and maintenance of health for individuals, families and community. It also helps the students to develop knowledge and understanding of communicable and non-communicable diseases and competencies required to screen, assess, diagnose, manage and refer clients appropriately in various health care settings.

COMPETENCIES

At the end of the course the student shall be able to:

1. Develop basic understanding about the concepts & dimensions of health
2. Describe the role and responsibilities of community health nursing personnel
3. Apply community health nursing process in providing family health care services
4. Conduct home visit and render community health care services
5. Identify the levels of prevention and referral chain in India
6. Conduct nutritional assessment for different age groups in the community and provide appropriate nutritional counselling
7. Investigate an epidemic of communicable disease in assigned community.
8. Relate the influence of environmental factors and sanitation on health and disease
9. Categorize common communicable diseases through their epidemiological determinants.
10. Translate nurse's role in prevention & control of non-communicable diseases.

11. Relate demographic trends in world and India.
12. Explain population control & its impact on the society and describe the approaches towards limiting family size.
13. Interpret population explosion and use of contraceptive services in India.
14. Coordinate contraceptive delivery services at health care centres.

Unit	Time (Hours)	Learning Objectives	Content	Teaching Learning Activities	Assessment Method
I	12	<ul style="list-style-type: none"> • Describe the concept & dimensions of health • Define community health nursing • Describe qualities and responsibilities of Community Health Nurse • Discuss the concepts and principles of primary health 	<p>Introduction</p> <p><u>Must Know (MK)</u></p> <ul style="list-style-type: none"> • Health: <ul style="list-style-type: none"> - Definition, concept and dimensions of health - Promotion of health - Maintenance of health • Community health nursing: Definition, principles, Qualities; roles and responsibilities of Community Health Nursing personnel • Nursing Process: <ul style="list-style-type: none"> - community health Nursing Process - Family health Nursing Process - Home visit : Concept, Principles, Process - Bag Technique • Primary health care: Concepts, elements & principles <p><u>Desirable to Know (DK)</u></p> <p>Evolution of Public health, community health & community health nursing in India.</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<u><i>Nice to Know (NK)</i></u> Comprehensive primary health care		
II	20	Describe the determinants of health	<p>Determinants of health</p> <p><u><i>Must Know (MK)</i></u></p> <ul style="list-style-type: none"> Eugenics <p>Biological: Bacterial & viral: agents and host carriers, Arthropods and Rodents</p> <p>Environment:</p> <ul style="list-style-type: none"> Physical: Air, light, Ventilation, Water, Housing, Sanitation; disposal of waste at home & community, Noise, Concept of Pollution prevention; Role of nurse in prevention of pollution <p>Socio cultural</p> <ul style="list-style-type: none"> Family structure, Customs, taboos, Marriage system Life style: Hygiene, Physical activity, Recreation and sleep, Sexual life, Spiritual life, Self-reliance & Dietary pattern <p>Socio economic</p> <ul style="list-style-type: none"> Education, Occupation <p>Nutrition:</p> <ul style="list-style-type: none"> Nutrition assessment of individuals, families and community by using appropriate methods <p><u><i>Desirable to Know (DK)</i></u></p> <p>Physical:</p> <ul style="list-style-type: none"> Forestation, Climate, disposal of dead bodies, Communication; infrastructure facilities 	<ul style="list-style-type: none"> Lecture cum Discussion Explain using charts, graphs, models, films, slides & other A.V. aids. Visit to water supply, sewage disposal, milk plants, slaughter house etc. 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

			<p>and linkages</p> <ul style="list-style-type: none"> • Acts regulating the environment; National pollution control board <p>Socio cultural</p> <ul style="list-style-type: none"> • Status of special groups: females, children, elderly, challenged groups & sick persons <p>Socio economic</p> <ul style="list-style-type: none"> • Financial Management of Family Income, Budget, Purchasing power, Security <p>Nutrition:</p> <ul style="list-style-type: none"> • Food Borne Diseases and Food Safety: Food poisoning & food intoxication • Food hygiene: Production, Preservation, Purchase, Preparation, Consumption • Acts regulating food hygiene prevention of food adulteration act, Drugs and cosmetic act 		
III	5	Describe concept, scope, uses, methods & approaches of epidemiology	<p>Epidemiology Definition, concept, aims, approaches, scope, uses and terminology used in epidemiology Epidemiological Triad Dynamics of disease transmission; epidemiological triad Levels of prevention Epidemiological Methods: Observational studies Experimental studies <u><i>Nice to Know (NK)</i></u> Epidemicsn&Epidemiological investigation.</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using charts, graphs, models, films, slides & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
IV	30	Describe epidemiology & nursing management of	<p>Epidemiology and nursing management of common Communicable Diseases</p>	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer

		<p>common communicable diseases</p>	<ul style="list-style-type: none"> • Respiratory infections <ul style="list-style-type: none"> ○ Small Pox ○ Chicken Pox ○ Measles ○ Influenza ○ Rubella ○ ARI's & Pneumonia ○ Mumps ○ Diphtheria ○ Whooping cough ○ Meningococcal meningitis ○ Tuberculosis ○ SARS • Intestinal Infections <ul style="list-style-type: none"> ○ Poliomyelitis ○ Viral hepatitis ○ Cholera ○ Diarrhoeal diseases ○ Typhoid fever ○ Food poisoning ○ Amoebiasis ○ Hook worm infection ○ Ascariasis ○ Dracunculiasis • Arthropod infections <ul style="list-style-type: none"> ○ Dengue ○ Malaria ○ Filariasis ○ Zika Virus • Zoonoses • Viral <ul style="list-style-type: none"> ○ Rabies ○ Yellow fever ○ Japanese encephalitis • Bacterial <ul style="list-style-type: none"> ○ Brucellosis Plague ○ Human salmonellosis ○ Anthrax ○ Leptospirosis • Rickettsial diseases <ul style="list-style-type: none"> ○ Scrub typhus ○ Murine typhus ○ Tick typhus ○ Q fever • Parasitic zoonoses 	<p>n</p> <ul style="list-style-type: none"> • Explain using charts, graphs, models, films, slides & other A.V. aids. • Seminar • Supervise d field practice- Health centers, clinic & homes • Group Project/Health Education 	<p>questions</p>
--	--	-------------------------------------	---	--	------------------

			<ul style="list-style-type: none"> ○ Taeniasis ○ Hydatid disease ○ Leishmaniasis ○ Surface infection ○ Trachoma ○ Tetanus ○ Leprosy ○ STD & RTI ○ Yaws ○ HIV/AIDS <p>Immunity, immunizing agents, Cold chain, National immunization schedule</p> <p><u>Desirable to Know (DK)</u></p> <ul style="list-style-type: none"> ● Emerging/re-emerging communicable diseases 		
V	15	Describe epidemiology & nursing management of common non-communicable diseases	<p>Epidemiology and Nursing management of Non-communicable diseases</p> <ul style="list-style-type: none"> ● Malnutrition: <ul style="list-style-type: none"> ○ Under nutrition: PEM, SAM, Anaemia, Iodine Deficiency ○ Over nutrition: Obesity, Fluorosis ● Hypertension ● Stroke ● Rheumatic. Heart Disease ● Coronary Heart Disease ● Cancer ● Diabetes mellitus ● Blindness ● Accidents ● Mental illness ● Epilepsy ● Deafness ● Thyroid disorder <p><u>Desirable to Know (DK)</u></p> <ul style="list-style-type: none"> ● WHO global action plan for the prevention & control of NCDs (2013-2020) ● 2030 Agenda for 	<ul style="list-style-type: none"> ● Lecture cum Discussion ● Explain using charts, graphs, models, films, slides ● Seminar ● Supervised field practice- Health centers, clinics, & homes ● Group Project/Health Education 	<ul style="list-style-type: none"> ● Essay type ● Short notes ● Short answer questions

			NCDs through Sustainable Development Goals		
VI	5	<ul style="list-style-type: none"> Describe the concepts & scope of demography Describe methods of data collection, analysis & interpretation of demographic data. 	<p>Demography</p> <ul style="list-style-type: none"> Definition, concept and scope Demographic cycle, Population trends in world & India Sources of vital statistics Methods of collection, analysis and interpretation of demographic data Demographic rates and ratios <p><u>Desirable to Know (DK)</u></p> <ul style="list-style-type: none"> Current Demographic rates and ratios 	<ul style="list-style-type: none"> Lecture cum Discussion Community Identification survey 	<ul style="list-style-type: none"> Essay type Short notes Short Answer questions Assessment of survey report
VII	13	<ul style="list-style-type: none"> Identify the impact of population explosion in India Describe methods of population control 	<p>Population and its control</p> <ul style="list-style-type: none"> Population explosion and its impact on social, economic development of individual, society and country Population control: <ul style="list-style-type: none"> Overall development: social, economic and educational development Limiting family size: <ul style="list-style-type: none"> Promotion of small family norm Methods: <ul style="list-style-type: none"> Temporary Spacing Methods (natural, barrier, IUD, hormonal post-conceptual and miscellaneous methods) Terminal Methods: (Tubectomy, 	<ul style="list-style-type: none"> Lecture cum Discussion Population Survey Counselling for acceptance of contraception Demonstration Practice Session Supervised field practice 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions Assessment of survey report

			<p>Vasectomy)</p> <ul style="list-style-type: none"> ○ Emergency contraception • National Population Stabilization Fund/JSK (Jansankhya Sthirata Kosh) • Family planning 2020 • National Family Welfare Program • Role of a nurse in Family Welfare Program <p><u>Desirable to Know (DK)</u></p> <ul style="list-style-type: none"> • Identify and communicate suitable methods of contraception to eligible couples. 		
--	--	--	--	--	--

Mandatory Module: Standard treatment protocols of national health programme part 1

Placement: B.SC (H) Nursing 1st year

Hour	Objectives	Content	Teaching Learning method	Method of evaluation
15	Identify standard treatment protocols of various communicable diseases.	<ul style="list-style-type: none"> • ARI & Pneumonia • Influenza • TB, DR-TB, Pregnancy with TB, Paediatric Tuberculosis • ART for HIV/AIDS • STI • Post exposure prophylaxis • Leprosy • Malaria • Filaria • Dengue • Chikunguniya • Kala-azar • JE • ARV regimen 	<ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Supervised clinical practice at clinics 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • OSCE

Elective Module: Environmental health

Placement: B.SC (H) Nursing 1st year

Hour	Objectives	Content	Teaching Learning method	Method of evaluation
15	Describe role of nurse in maintaining environmental health.	<ul style="list-style-type: none"> • Principle & concept of environmental health • Ecosystem • Water: sources, supply, water quality, pollution, purification process • Soil pollution • Noise pollution • Air pollution • Housing • Effect of radiation & electronic waste on environment • Waste disposal & solid waste management • Vector control • Global environmental issues • Environmental hazards • Environmental quality 	<ul style="list-style-type: none"> • Self-instructional module • video assisted teaching 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • OSCE

		<p>assessment & monitoring; Air, water, soil, noise.</p> <ul style="list-style-type: none">• WHO Global strategy on environmental & climate change.• Role of Nurse in maintaining environmental health.		
--	--	--	--	--

RS-1 COMMUNITY HEALTH NURSING -I: PRACTICAL

Placement: II YEAR

DURATION: 140 Hours (including 15 hour as mandatory module)

Community Posting Area	Duration (hours)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Rural & Urban area	140	<ul style="list-style-type: none"> • Build and maintain rapport • Identify the socio-demographic characteristics, health determinants and resources of a rural and an urban community • Perform nutritional assessment and plan diet plan for adult • Educate individuals/family on <ul style="list-style-type: none"> - Nutrition - Hygiene - Food hygiene - Healthy life style - Health promotion • Perform community health nursing procedure with use of bag technique • Perform family health assessment and render family health care services • Identify structural and functional aspects of 	<ul style="list-style-type: none"> • Communication skills (using communication and interpersonal relationship) • Observation skills • Conducting community needs assessment/survey to identify health determinants of a community • Nutrition assessment skills • Skill in teaching individual/family on: <ul style="list-style-type: none"> - Nutrition, including food hygiene and safety - Healthy life style - Health need/health problem based • Skill in community health nursing care procedures • Skill in family health assessment and provision of need-based care to all members of family 	<ul style="list-style-type: none"> • Community needs assessment/ Survey- Rural-1 Urban-1 • Nutrition assessment of an individual (adult)-1 • Individual health teaching (Adult) -1 • Use of audio-visual aids <ul style="list-style-type: none"> - Flash cards - Posters - Flannel graph - Flip charts • Demonstration of nursing care procedure with use of bag technique-1 • Family Folder-5 (Rural) • Family case study <ul style="list-style-type: none"> - Rural-2 - Urban-1 • Observation report <ul style="list-style-type: none"> - SC -PHC -CHC • Observation report <ul style="list-style-type: none"> - State pollution control Board • Water purification Plant (Large scale) • State vaccine 	<ul style="list-style-type: none"> • Evaluation of survey report • Assessment of clinical performance • Evaluation of nutrition assessment • Health talk evaluation • Evaluation of procedure demonstration • Evaluation of family case studies • Evaluation of observational reports Evaluation of observational reports

	<p>different levels of health care delivery system in India</p> <ul style="list-style-type: none"> • Observe and correlate functioning of different institutes with community health knowledge; • State pollution control Board • Water purification Plant (Large scale) • State vaccine center 	<ul style="list-style-type: none"> • Observational visits to Sub-center, PHCs, CHCs in rural and urban areas. • Educational visits to <ul style="list-style-type: none"> • State pollution control Board • Water purification Plant (Large scale) • State vaccine center 	center	
--	---	--	--------	--

RS-1 COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: Second Year

Duration: Theory (60 Hours)

Practical (30 Hours)

Paper	Subject	Internal Assessment	Final Exam	Total Marks
T/XIII	Communication & Educational Technology	25	75	100

Scheme of Examination (Theory/Written)

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

Question Paper Pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

Note:

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

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

COMPETENCIES

On completion of the course, the students will be competent to

1. Develop basic understanding of theoretical foundations and principles of teaching and learning
2. Initiate self- assessment to identify one's own learning styles
3. Demonstrate understanding of various teaching styles that can be used, based on the learners' readiness and needs
4. Develop understanding of basics of curriculum planning, and organizing
5. Analyse and use different teaching methods effectively that are relevant to student population and settings
6. Make appropriate decisions in selection of teaching learning activities integrating basic principles
7. Utilize active learning strategies that enhance critical thinking, team learning and collaboration

8. Engage in team learning and collaboration through inter professional education
9. Integrate the principles of teaching and learning in selection and use of educational media/technology
10. Apply the principles of assessment in selection and use of assessment and evaluation strategies
11. Construct simple assessment tools/tests integrating cognitive, psychomotor and affective domains of learning that can measure knowledge and competence of students
12. Develop basic understanding of student guidance through mentoring and academic advising
13. Identify difficult situations, crisis and disciplinary/grievance issues experienced by students and provide appropriate counselling
14. Engage in ethical practice in educational as well as clinical settings based on values, principles and ethical standards
15. Develop basic understanding of evidence-based teaching practices
16. Analyse the current health care trends that are applicable to nursing education
17. Recognize the educational philosophies
18. Develop basic understanding of theoretical foundations and principles of teaching and learning
19. Demonstrate understanding of various teaching styles that can be used, based on the learners' readiness and needs
20. Develop understanding of basics of curriculum planning, and organizing
21. Analyse and use different teaching methods effectively that are relevant to student population and settings
22. Integrate the principles of teaching and learning in selection and use of educational media/technology
23. Apply the principles of assessment in selection and use of assessment and evaluation strategies
24. Construct simple assessment tools/tests integrating cognitive, psychomotor and affective domains of learning that can measure knowledge and competence of students

Unit no	Hours	Learning Objective	CONTENT Must know	Unit	Content
	Th				
I	3	<ul style="list-style-type: none"> Describe the communication process. Identify techniques of effective communication 	<p>Communication process</p> <ul style="list-style-type: none"> Meaning Definition Types Facilitators Barriers Methods to overcome Barriers <p>Desirable to know Techniques</p> <p><u>Nice to know</u> Process of communication (Elements & Channels)</p>	<ul style="list-style-type: none"> Lecture cum Discussion Seminar Role plays <p>Exercises with audio/ video tapes</p>	<ul style="list-style-type: none"> Respond to critical incidents. Short answers. <p>Short notes</p>
II	3	Establish effective interpersonal relations with patients, families & co-workers.	<p>Interpersonal Relations</p> <ul style="list-style-type: none"> Definition Purposes Types Barriers Methods to overcome barriers Process of communication (Elements & Channels) <p>Desirable to know</p> <ul style="list-style-type: none"> Dynamics of IPR Phases of IPR <p><u>Nice to know</u> Johari window</p>	<ul style="list-style-type: none"> Lecture cum Discussion Seminar Role plays Exercises with audio/ video tapes <p>Process recording</p>	<ul style="list-style-type: none"> Short notes Short answers
III	3	Develop effective human relations in context of nursing.	<p>Human Relations</p> <ul style="list-style-type: none"> Definition Understand self Social behavior Social attitude Individual and group Team work <p>Desirable to know</p> <ul style="list-style-type: none"> Group Dynamics <p><u>Nice to know</u> Motivation</p>	<ul style="list-style-type: none"> Lecture cum Discussion Sociometry Group games <p>Psychometric exercises followed by discussion</p>	<ul style="list-style-type: none"> Respond to test based on critical incidents Shot notes <p>Short answers</p>

IV	10	Develop basic skill of counselling and guidance.	<p>Guidance & Counseling</p> <p>Guidance:</p> <ul style="list-style-type: none"> • Definition • Need • Purpose • Scope • Principles <p>Counseling:</p> <ul style="list-style-type: none"> • Definition • Need • Purpose • Scope • Principles • Steps/Counseling process • Techniques & Tools <p>Issues for counseling in nursing</p> <p>Desirable to know</p> <ul style="list-style-type: none"> • Characteristics of guidance • Approaches to guidance • Characteristics of counseling • Approaches to counseling • Role of counselor <p><u>Nice to know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Demonstration <p>Role play on counselling in different situations followed by discussion</p>	<ul style="list-style-type: none"> • Essay type • Shot notes • Short answers <p>Assess performance in role play situations</p>
----	----	--	---	---	---

V	5	Describe the philosophy & principles of education.	<p>Principles & philosophies of Education</p> <p>Education</p> <ul style="list-style-type: none"> • Aims • Functions • Principles <p>Philosophy</p> <p>Educational philosophies (Traditional & Modern)</p> <ul style="list-style-type: none"> • Idealism • Realism • Naturalism • Pragmatism • Existentialism <p>Desirable to know</p> <ul style="list-style-type: none"> • Definition of education • Definition of philosophy <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Trends in nursing education 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar Symposium 	<ul style="list-style-type: none"> • Essay type • Shot notes <p>Short answers</p>
VI	6	Explain the teaching learning process	<p>Teaching-Learning Process</p> <p><u>Must Know</u></p> <p>Teaching</p> <ul style="list-style-type: none"> • Characteristics • Principles • Maxims <p>Learning</p> <ul style="list-style-type: none"> • Characteristics • Principles • Domains • Factors influencing <p>Curriculum</p> <ul style="list-style-type: none"> • Meaning • Principles of Curriculum Planning • Steps in Curriculum Development • Formulation of educational objectives: General & Specific • Lesson plan • Unit plan • Course plan 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar Symposium • Project on prepare lesson plan. • Practicing micro teaching <p>Exercise on writing objectives.</p>	<ul style="list-style-type: none"> • Essay type • Shot notes • Short answers <p>Assess lesson plans & teaching sessions</p>

			<p>Class room Management-Discipline</p> <ul style="list-style-type: none"> • Aims of discipline in education • Principles <p>Desirable to know</p> <ul style="list-style-type: none"> • Definition of teaching • Definition of learning • Nature of learning • Definition of curriculum • Concept of curriculum • Definition of discipline • Types of discipline • Disciplinary procedures <p>Nice to know</p> <p>Teachers role in discipline</p>		
VII	10	Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings.	<p>Methods of Teaching</p> <p><u>Must Know</u></p> <p>Types: classroom & clinical</p> <ul style="list-style-type: none"> ➤ Lecturer method ➤ Demonstration ➤ Group discussion ➤ Seminar ➤ Symposium ➤ Panel discussion ➤ Role play ➤ Project method ➤ Exhibition ➤ Programmed instruction ➤ Computer assisted learning ➤ Micro teaching ➤ Problem based learning ➤ Self-directed learning or self instructional module ➤ Problem solving as method of teaching ➤ Clinical teaching methods <ul style="list-style-type: none"> - Case method - Nursing rounds - Nursing Bedside clinics - Morning & afternoon reports - Group conference 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Symposium <p>Project on</p> <p>planning and conducting five teaching sessions using different methods & media</p>	<ul style="list-style-type: none"> • Essay type • Shot notes • Short answers <p>Assess lesson plans & teaching sessions</p>

			<p>- Nursing care conference - Individual conference -Health team _ process recording Desirable to know</p> <ul style="list-style-type: none"> • Field trip • Workshop • Simulation <p><u>Nice to know</u> Educational media In IEC & BCC</p>		
VIII	15	<ul style="list-style-type: none"> • Prepare and use different type of educational media effectively • Teach individuals, groups and communities about health with their active participation 	<p>Educational media <u>Must Know</u> AV AIDS</p> <ul style="list-style-type: none"> ➤ Concept ➤ Importance, Characteristics ➤ Sources ➤ Principles ➤ Types of teaching aids <p>Graphical teaching aids</p> <ul style="list-style-type: none"> ➤ Chalk board/ Black board ➤ Chart ➤ Poster ➤ Flash cards ➤ Flannel graph ➤ Bulletin board <p>Printed educational aids:</p> <ul style="list-style-type: none"> ➤ Pamphlets ➤ Leaflets <p>Projected audio-visual aids:</p> <ul style="list-style-type: none"> ➤ Overhead projector ➤ LCD projector <p>Guidelines for effective use of audio-visual aids Information, education and communication (IEC) & Behaviour, change, communication (BCC)</p> <ul style="list-style-type: none"> ➤ Health behaviours ➤ Health education ➤ Planning for health education ➤ Health education with individual, group and communities ➤ Communicating health messages 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Demonstration <p>Prepare different teaching aids – projected & non-projected.</p>	<ul style="list-style-type: none"> • Essay type • Shot notes • Short answers • Assess the prepared teaching aids

			<ul style="list-style-type: none"> ➤ Methods and media for communicating health message ➤ Media for communicating health message ➤ Using mass media <p>Desirable to know</p> <ul style="list-style-type: none"> ➤ Definition of AV aids ➤ Three-dimensional aids: ➤ Objects and specimens ➤ Models ➤ Puppets ➤ Exhibition ➤ Audio educational aids: ➤ Tape recorder ➤ Public address system ➤ Computer <p><u>Nice to know</u></p> <ul style="list-style-type: none"> ➤ Television ➤ Camera ➤ Microscope 		
IX	5	Prepare different types of questions for assessment of knowledge, skills and attitudes.	<p>Assessment <u>Must Know</u></p> <ul style="list-style-type: none"> • Types • Purposes <p>Evaluation</p> <ul style="list-style-type: none"> • Types • Purposes • Criteria for selection of evaluation technique <p>Classification assessment tools and techniques</p> <ul style="list-style-type: none"> ➤ Essay type questions ➤ Short answer questions ➤ Multiple choice questions ➤ Observation checklist ➤ Rating scale ➤ Likert's scale <p>Desirable to know</p> <ul style="list-style-type: none"> • Definition of assessment 	<ul style="list-style-type: none"> • Lecture cum Discussion • Seminar • Symposium • Demonstration <p>Exercise on designing different types of assessment tools.</p>	<ul style="list-style-type: none"> • Essay type • Shot notes • Short answers • Assess the strategies used in practice teaching sessions & exercise sessions.

			<ul style="list-style-type: none">• Scope of assessment• Definition of evaluation• Scope of evaluation• Item analysis• Objective structured clinical examination (OSCE)• Practical examination• Viva-voce <p><u>Nice to know</u></p> <ul style="list-style-type: none">• Attitude scale <p>Semantic differential scale</p>		
--	--	--	---	--	--

RS-1 Communication & Educational Technology- Practical

Placement: Second Year

Practical-30 Hours

Area	Duration	Objectives	Skills	Assignments	Assessment methods
Classroom	10	Develop beginning skills in classroom teaching	<ul style="list-style-type: none">• Use different instructional methods & media• Practice different teaching skills• Follows maxims of teaching	<ul style="list-style-type: none">• Micro teaching• Peer teaching• Teaching practice• AV aid exhibition	<ul style="list-style-type: none">• Evaluation of written assignments• Evaluation of AV aid exhibition
Classroom	20	Acquire skill in Curriculum Preparation	<ul style="list-style-type: none">• Develop a curriculum for nursing degree• Formulation of educational objectives	<ul style="list-style-type: none">• Prepare Master rotation plan• Prepare clinical rotation plan• Prepare Course & unit Plan• Develop educational objectives	<ul style="list-style-type: none">• Evaluation of written assignments

Competencies

The student should be able to perform the following skills

1. Formulate Educational Objectives
2. Create Course plan
3. Formulate Lesson plan
4. Construct Unit plan
5. Prepare AV Aids
6. Educate group using AV Aids
7. Demonstrate teaching methods
8. Construct Assessment Tools

B.Sc. (Hons) NURSING III YEAR

RS-1 Medical Surgical Nursing II

Placement: Third year

Duration: Theory - 110 Hours

Practical: 470 Hours

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

Scheme of examination (Theory/Written)

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

Question paper pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

Note:

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

Course Description: The course is designed to enable students to acquire knowledge and proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Learning Objectives

1. Describe the role of a nurse in caring for adult patient in hospital and community.
2. Explain the concepts of Medical Surgical nursing.
3. Perform physical assessment of patients with different medical surgical conditions.
4. Discuss the common signs, symptoms, problems and their specific nursing intervention.
5. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with various medical surgical conditions.
6. Demonstrate skills in managing patients with various medical surgical conditions.
7. Interpret findings of various diagnostic measures used in medical surgical conditions.
8. Appreciate the trends in medical and surgical nursing.

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activity	Assessment method
I	30	<ul style="list-style-type: none"> • Describe the etiology, Pathophysiology, clinical manifestations, diagnostic measures and management of patients with cardio vascular problems. • Describe the vascular conditions and its nursing management. 	<p>Nursing management of patients with cardiovascular problems</p> <p><u>Must Know</u></p> <p>Nursing assessment- History and physical assessment</p> <p>Diagnostic measures and related nursing care</p> <p>ECG, echocardiogram, TMT, CVP, Doppler studies, plethysmography</p> <p>Cardiac catheterization, coronary angiography, cardiac enzymes.</p> <p>Vascular system</p> <ul style="list-style-type: none"> • Hypertension • Aneurysms • Peripheral vascular disorders <ul style="list-style-type: none"> ➤ Raynaud’s disease ➤ Thromboangitis Obliterans ➤ Venous insufficiency ➤ Varicose veins. <p>Heart</p> <ul style="list-style-type: none"> • Atherosclerosis, • Coronary Artery Diseases – <ul style="list-style-type: none"> ➤ Myocardial infarction ➤ Angina pectoris ➤ Ischemic Heart Disease • Rheumatic Heart Disease 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Explain using charts, graph. • Models, films & slides • Health Education • Drug book/ Presentation • Counselling 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> • Valvular disorders of the heart • CCF • Pulmonary Oedema • Cardiogenic shock • Cardiomyopathy • Cardiac Dysrhythmias • Cardiac arrest • Basic Life Support • Advanced Cardiac Life Support <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Nuclear imaging • Cardiac tamponade • Heart Block • Cor Pulmonale <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology of Cardiovascular system. • Arteriography • Endocarditis • Pericarditis • Myocarditis 		
II	20	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures & management of patients with neurological disorders	<p>Nursing management of patients with neurological disorders</p> <p><u>Must Know</u></p> <p>Nursing history, examination and neurological assessment.</p> <p>Assessment: physical and neurological assessment.</p> <ul style="list-style-type: none"> ➤ Diagnostic measures and related nursing care ➤ Lumbar puncture ➤ CSF analysis ➤ CT ➤ MRI ➤ magnetic resonance angiography 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book /presentation • Visit to rehabilitation center 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

			<ul style="list-style-type: none"> ➤ Cerebral ultrasound ➤ EEG ➤ EMG ➤ Disorders of Brain ➤ Tumours of brain ➤ Intracranial & cerebral aneurysms ➤ Cerebrovascular accident (CVA) ➤ TIA ➤ Head injury ➤ Increased ICP ➤ Epilepsy • Neuropathies <ul style="list-style-type: none"> ➤ Bell's Palsy ➤ Trigeminal Neuralgia • Degenerative disease: <ul style="list-style-type: none"> ➤ Dementia ➤ Parkinson's disease ➤ Myastheniagravis ➤ Guillain-Barre Syndrome ➤ Multiple sclerosis • Infections <ul style="list-style-type: none"> ➤ Meningitis ➤ Encephalitis ➤ Brain abscess • Disorders of Spine & Spinal Cord • Spinal cord injury • Role of nurse in communicating with the patients with neurological deficit. • Rehabilitation of patients with neurological deficit. <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> ➤ Head ache ➤ Migraine <p><u>Nice to know</u></p> <p>Anatomy and physiology of</p>	
--	--	--	--	--

			<p>the neurological system.</p> <ul style="list-style-type: none"> ➤ PET Scan ➤ SPECT Scan ➤ Evoked potential ➤ Neurocysticercosis 		
III	10	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures & management of patients with Burns, reconstructive and cosmetic surgery	<p>Nursing management of patients with burns, reconstructive and cosmetic surgery</p> <p><u>Must Know</u></p> <p>Nursing assessment: history and physical assessment and assessment of burns (TBSA, depth and severity) and fluid and electrolyte loss.</p> <p>Burns</p> <ul style="list-style-type: none"> • Types of burns. • Resuscitation and emergency management of burns • Burn wound management • Types of reconstructive and cosmetic surgery for burns, injuries. • Role of nurse in reconstructive and cosmetic surgery <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Reconstructive surgeries for cosmetic purpose <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Anatomy and physiology of skin and connective tissues • Legal aspects & Rehabilitation 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice <p>Drug book /presentation</p>	<ul style="list-style-type: none"> • Essay type question • Short notes <p>Short answer</p>
IV	15	Describe the etiology, pathophysiology, clinical manifestation,	<p>Nursing management of patients with oncological conditions</p> <p><u>Must Know</u></p> <p>Prevention, screening, early</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration 	<ul style="list-style-type: none"> • Essay type question • Short notes <p>Short</p>

		<p>diagnostic measures & management of patients with oncology</p>	<p>detection of cancer warning signs of cancer</p> <ul style="list-style-type: none"> • Oral Cancer • Cancer oesophagus • Cancer Breast • Cancer Cervix • Cancer Uterus • Cancer Lungs • Cancer of Kidney • Oncological emergencies <p>➤ Treatment modalities of cancer:</p> <p>➤ Chemotherapy</p> <p>➤ Radiotherapy & Bone marrow transplants</p> <p>Psycho social aspects of cancer</p> <p>Rehabilitation</p> <p>Palliative care; symptom & pain management, nutritional support.</p> <p>Home care</p> <p><u>Desirable to know</u></p> <p>Cancer Larynx, Cancer Ovary</p> <p>➤ Immunotherapy</p> <p>➤ Hospice care</p> <p><u>Nice to know</u></p> <p>Structure & characteristics of normal & cancer cells</p> <p>Osteosarcoma</p> <p>Stem cell therapy</p> <p>Gene therapy</p>	<ul style="list-style-type: none"> • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice <p>Drug book /presentation</p>	<p>answer</p>
V	10	<ul style="list-style-type: none"> • Describe the organization of emergency care services • Describe the role of nurse in management of common Emergencies 	<p>Nursing management of patient in emergency</p> <p><u>Must Know</u></p> <p>Emergency Nursing:</p> <p>Concept, priorities, principles & scope of emergency nursing.</p> <p>Organization of emergency services: physical set up, staffing, equipment &</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/Seminar • Health education • Supervised clinical 	<ul style="list-style-type: none"> • Essay type question • Short notes <p>Short answer</p>

			<p>supplies, Concepts of triage & role of triage nurse. Poly-Trauma, road accidents, crush injuries Bites Common Emergencies Respiratory emergencies Cardiac emergencies Neuro emergencies Shock and haemorrhage <u>Desirable to know</u> Importance of coordination & involvement of different departments & facilities protocols ATLS <u>Nice to know</u> Crisis intervention Medico legal aspects in emergency</p>	<p>practice • Drug book /presentation</p>	
VI	15(including 2 hours for mandatory module)	<ul style="list-style-type: none"> • Describe the organization of critical care units • Describe the role of nurse in management of patients in critical care units 	<p>Nursing management of patient in critical care units <u>Must Know</u> Principles of critical care nursing Organization: physical set up, policies, staffing Protocols in ICU ➤ Special equipment: ventilators, cardiac monitor, defibrillators ➤ Nursing management of critically ill patients ➤ Treatments and procedures in critical care units ➤ Communication with patient and family. Drugs used in critical care unit. <u>Desirable to know</u> Norms Hemodynamic monitoring in ICU Intensive care records <u>Nice to know</u> Transitional care, ethical and legal aspects in ICU</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book Presentation 	<ul style="list-style-type: none"> • Essay type • question • Short notes • Short answer
VII	10	Identifies the	Introduction to forensic	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type

		<p>significance of forensic nursing</p> <p>Performs the nurses' responsibilities in caring for victims of trauma, sexual abuse, poisoning, homicide and their families</p>	<p>nursing</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> ➤ Introduction to forensic nursing: definition, scope, significance and principles. ➤ Role of forensic nurse in holistic care of patients and families. ➤ Role of nurse in collection, preservation and documentation of evidence/ sample in forensics. ➤ Nurses' responsibility in caring for victims of trauma, sexual abuse, poisoning, homicide and their families <p><u>Desirable to know</u></p> <p>Trends and issues in forensic nursing</p> <p><u>Nice to know</u></p>	<ul style="list-style-type: none"> • Explain using Charts, graphs • Models, Films, Slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice 	<p>question</p> <ul style="list-style-type: none"> • Short notes • Short answer
--	--	--	--	---	---

Mandatory module 1: ACLS					
Placement: B Sc. Nursing III Year			Subject: Medical Surgical Nursing II		
Hours		Objective of module	Content	Teaching Learning Activities	Method of evaluation
Th	Pr				
2	8	Describe, understand and perform the advanced cardiac life support	<ul style="list-style-type: none"> • Review of relevant anatomy and physiology of cardiovascular system • Introduction to advanced cardiac life support course • Adult advanced cardiac life support 	Lecture cum discussion, Demonstration	<ul style="list-style-type: none"> • Return demonstration • OSCE

RS-1 Medical-Surgical Nursing– II (Practical/ Clinical)

Placement: Third Year

Time: 470 Hours

(Including 8 hours for mandatory module)

Practical – P/III Medical Surgical Nursing – II Practical with Viva Voce	Internal Assessment	(Final Practical Exam)	Total
	50	50	100

Note:

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

Practice competencies

On completion of the clinical practicum, the students will be able to apply nursing process and critical thinking in delivering holistic nursing care including rehabilitation to the adult patients with selected medical & surgical conditions i.e., cardiovascular, neurological, oncological patients.

The students will be competent to:

- Utilize the nursing process in providing care to the sick adults in the hospital
 - Perform complete health assessment to establish a data base for providing quality patient care
 - Integrate the knowledge of diagnostic tests in the process of data collection
 - Identify nursing diagnoses and list them according to priority
 - Formulate nursing care plan, using problem solving approach
 - Apply scientific principles while giving nursing care to patients
 - Perform nursing procedures skilfully on patients
 - Establish /develop interpersonal relationship with patients and family members
 - Evaluate the expected outcomes and modify the plan according to the patient needs
- Provide comfort and safety to adult patients in the hospital
- Maintain safe environment for patients during hospitalization
- Explain nursing actions appropriately to the patients and family members
- Ensure patient safety while providing nursing procedures
- Assess the educational needs of the patient and their family related to selected medical and surgical disorders and provide appropriate health education to patients
- Demonstrate skill in performing BLS and ACLS
- Demonstrate skill in performing and interpreting various diagnostic procedures viz. ECG, EEG, Echocardiography
- Exhibit skills in using various equipment used in critical care settings.
- Demonstrate skill in nursing management of patients with critical care illness.

Areas	Durati on in weeks	Objectives	Skills	Assignments	Assessment Method
Neurology	3	Provide care to patients with neurological disorders Counsel & educate patients & families	<ul style="list-style-type: none"> • Perform neurological examination • Use Glasgow Coma Scale • Preparation of patient and assisting with EEG,EMG, Skull and spine • X-rays • Assisting in MRI • Assisting with Lumber puncture • Assist with therapeutic procedures • Teach patients and families • Participate in rehabilitation programme 	<ul style="list-style-type: none"> • Provide care to 2-3 assigned patients. • Case study/Case Presentation - 1 • HealthTeaching-1 • Maintain drug book 	<p>Assess performance with rating scale</p> <p>Assess each skill with checklist</p> <p>Evaluation of Case study and Health Teaching</p> <p>Completion of practical record.</p>
Burn Unit	1	Provide care to patients with burns Counsel & educate patients & families	<p>Assessment of the burn patient</p> <ul style="list-style-type: none"> <input type="checkbox"/> Percentage of burns <input type="checkbox"/> Degree if burns <input type="checkbox"/> Fluid and electrolyte replacement therapy <input type="checkbox"/> Assess <input type="checkbox"/> Calculate <input type="checkbox"/> Replace <input type="checkbox"/> Record intake/output <input type="checkbox"/> Percentage of burns <input type="checkbox"/> Care of Burn wound <input type="checkbox"/> Bathing <input type="checkbox"/> Dressing <input type="checkbox"/> Perform active and passive exercises <input type="checkbox"/> Practice medical and surgical asepsis <input type="checkbox"/> Counsel and Teach 	<p>Provide care to 1-2 assigned patients.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Nursing Care Plan-1 	<p>Assess performance with rating scale</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assess each skill with checklist <input type="checkbox"/> Evaluation of Care plan and observation report <input type="checkbox"/> Completion of practical record

			<p>patients and families</p> <ul style="list-style-type: none"> <input type="checkbox"/> Participate in Rehabilitation programme 		
Oncology Unit	2	<p>Provide care to Patients with cancer</p> <ul style="list-style-type: none"> <input type="checkbox"/> Counsel & educate patients & families 	<p>Screen for common cancers – TNM classification</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assist with diagnostic procedures <input type="checkbox"/> Biopsies <input type="checkbox"/> Pap smear <input type="checkbox"/> Bone-marrow <ul style="list-style-type: none"> • Aspiration Breast examination <ul style="list-style-type: none"> <input type="checkbox"/> Assist with therapeutic procedures <input type="checkbox"/> Participates in various modalities of treatment <ul style="list-style-type: none"> <input type="checkbox"/> Chemotherapy <input type="checkbox"/> Radiotherapy <input type="checkbox"/> Pain management <input type="checkbox"/> Stomal therapy <input type="checkbox"/> Hormonal therapy <input type="checkbox"/> Immuno therapy <input type="checkbox"/> Gene therapy <input type="checkbox"/> Alternative therapy <input type="checkbox"/> Participate in palliative care <ul style="list-style-type: none"> <input type="checkbox"/> Counsel and Teach patients and families <input type="checkbox"/> Self Breast Examination <ul style="list-style-type: none"> <input type="checkbox"/> Warning signs <input type="checkbox"/> Participate in rehabilitation program 	<p>Provide care to 2-3 assigned patients.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Nursing Care Plan-1 <input type="checkbox"/> Observation report of cancer unit 	<p>Assess performance with rating scale</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assess each skill with checklist <input type="checkbox"/> Evaluation of Care plan and observation report <p>Completion of practical record.</p>
Critical Care Unit	2	<p>Provide care to critically ill patients</p> <ul style="list-style-type: none"> <input type="checkbox"/> Counsel patients & families for grief & bereavement 	<p>Monitoring of patients in ICU</p> <ul style="list-style-type: none"> <input type="checkbox"/> Maintain flow sheet <input type="checkbox"/> Care of patient on ventilators <input type="checkbox"/> Perform Endotracheal suction <input type="checkbox"/> Demonstrates use of ventilators, cardiac 	<p>Provide care to the assigned patient.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Nursing Care Plan-1 <input type="checkbox"/> Drug Book 	<p>Assess each skill with checklist</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assess performance with rating scale <p>Evaluation of observation</p>

			<p>monitors etc.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Collect specimens & interprets ABG analysis <input type="checkbox"/> Assist with arterial puncture <input type="checkbox"/> Maintain CVP line <input type="checkbox"/> Pulse oximetry <input type="checkbox"/> CPR – ACLS <input type="checkbox"/> Defibrillators <input type="checkbox"/> Pacemakers <input type="checkbox"/> Bag-mask ventilation <input type="checkbox"/> Emergency tray/ trolley – Crash cart <input type="checkbox"/> Administration of drugs <input type="checkbox"/> Infusion pump <input type="checkbox"/> Epidural <input type="checkbox"/> Intrathecal <input type="checkbox"/> Intracardiac <input type="checkbox"/> Total parenteral therapy <p>Chest physiotherapy</p> <ul style="list-style-type: none"> <input type="checkbox"/> Perform active & passive exercises <input type="checkbox"/> Counsel the patient and family in dealing with grieving & bereavement 		<p>report</p> <p>Completion of practical record</p>
Casualty/ Emergency	1	<p>Provide care to patients in emergency & disaster situation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Counsel patients & families for grief & bereavement 	<p>Practice ‘triage’</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assist with assessment, examination, investigations & their interpretations, in emergency & disaster situations <input type="checkbox"/> Assist in documentations <input type="checkbox"/> Assist in legal procedures in emergency unit <input type="checkbox"/> Participate in managing crowd <input type="checkbox"/> Counsel the patient 	<p>Observation report of emergency unit</p>	<p>Assess performance with rating scale</p> <ul style="list-style-type: none"> <input type="checkbox"/> Evaluation of observation report <input type="checkbox"/> Completion of practical record.

			and family in dealing with grieving & bereavement		
Cardiology	3	Provide nursing care to adult patients with cardiac disorders <input type="checkbox"/> Counsel & educate patients & families	Cardio Vascular Nursing Skills o Recording and Interpreting ECG. o Holter Monitoring. o Performing a Venepuncture. o Administering of an Intravenous Infusion. o Blood Transfusion. o Monitoring central venous pressure. o Preparation and assisting for cardiac catheterization and pacemaker implantation. o Performing BLS. o Performing Defibrillation and ACLS. <input type="checkbox"/> Administer cardiac and emergency drugs.	Plan and give care to 3-4 assigned patients. Case study/Case Presentation -1 Maintain drug book.	Assess performance with rating scale Assess each skill with checklist Evaluation of clinical assignments Completion of practical record. Viva-voce OSCE

RS- 1 CHILD HEALTH NURSING

Placement: Third year

Time: Theory – 90 Hrs

Practical- 415

(Including 80 hours as mandatory-80hrs)

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

Scheme of examination (Theory/Written)

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

Question Paper Pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

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

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

COMPETENCIES:

On completion of the course, the students will be able to:

1. Develop understanding of the history and modern concepts of child health and child- care
2. Explore the national child welfare services, national programs and legislation in the light of National Health Policy
3. Describe the role of preventive paediatrics and perform preventive measures towards childhood accidents
4. Identify the developmental needs of children and provide parental guidance
5. Participate in national immunization programs /Universal Immunization program (UIP)
6. Demonstrate competencies in new-born assessment, planning and implementation of care to normal and high-risk new-born including neonatal resuscitation
7. Apply the principles and strategies of Integrated management of neonatal and childhood illness (IMNCI)
8. Apply the knowledge of pathophysiology and provide nursing care to children with common childhood diseases
9. Identify and meet childhood emergencies and perform child CPR

Unit no	Hours	Learning Objective	CONTENT	Teaching Learning Activities	Assessment Methods
I	10	<ul style="list-style-type: none"> • Explain the modern concept of child care & principles of Child Health Nursing • Describe the major functions & role of the pediatric nurse in caring for a hospitalized child. • Describe the major functions & role of the paediatric nurse in caring for a hospitalized child. • Differentiate between an adult and child in terms of illness and response • Describe the principles of child health nursing. 	<p>Introduction: modern concept of child care</p> <p>Must know</p> <ul style="list-style-type: none"> • Philosophy & Modern concept of child care. • Internationally accepted rights of the child • Changing trends in hospital care, preventive, promotive and curative aspect of child health. • Principles of child health nursing, reactions of child, qualities of paediatric nurse • Methods of pain assessment in children. • FACES pain rating scale • FLACC scale • Numerical scale • The role of a child health nurse in caring for a hospitalized child <p>Desirable to know</p> <ul style="list-style-type: none"> • Child morbidity and mortality rates • Difference between an adult and child which affect response to illness. (Physiological, Psychological, Social Immunological) • Hospital environment for sick child. • Impact of hospitalization on the child and family. • Communication techniques for children. • Principles of child health nursing 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration of common pediatric procedures 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with checklist

			<p>Nice to know</p> <ul style="list-style-type: none"> • Historical development of child health • Cultural and religious considerations in child care. • Grief and bereavement • National policy and legislations in relation to child health and welfare • Principles of pre and postoperative care of infants and children. 		
II	20	<ul style="list-style-type: none"> • Describe the normal growth and development of children at different ages • Identify the needs of children at different ages & provide parental guidance • Identify the nutritional needs of children at different ages & ways of meeting needs • Appreciate the role of play for normal & sick children • Appreciate the preventive measures and strategies for children • Describe National policy, programs & legislation in relation to 	<p>The Healthy child</p> <p>Must know</p> <ul style="list-style-type: none"> • Definition and principles of growth and development. • Factors affecting growth and development. • Growth and development from birth to adolescence. • Growth and developmental theories.(Freud, Erickson, Jean Piaget Kohlberg) • The need of normal children through the stages of developmental and parental guidance. • Nutritional needs of children and infants. <ul style="list-style-type: none"> - breastfeeding - exclusive breastfeeding <p>Supplementary / artificial feeding and complementary feeding.</p> <ul style="list-style-type: none"> - Baby friendly hospital concept - Types and value of play and selection of play material 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Developmental study of infant and children • Observation study of normal & sick child • Video assisted teaching on breast feeding • Clinical practice • Elective module on adolescent health 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of developmental study reports

		<p>child health & welfare</p> <ul style="list-style-type: none"> • Describe role of nurse in preventive paediatrics 	<ul style="list-style-type: none"> - Preventive immunization, immunization programme and cold-chain <p>Desirable to know <i>Preventive paediatrics:</i></p> <ul style="list-style-type: none"> - Scope, - Aims, Concept • Accidents; causes and prevention • National programmes and agencies related to welfare services to the children: national and international. • Role of nurse in preventive paediatrics <p>Nice to know Care of under-five and Under-five Clinics/Well-baby clinics</p>		
III	12	<ul style="list-style-type: none"> • Provide care to normal and high-risk neonates • Perform neonatal resuscitation • Recognize & manage common neonatal problems 	<p>Nursing Care of Neonate</p> <p>Must know</p> <ul style="list-style-type: none"> • Assessment of new-born • Characteristics of New-born (physical, physiological, neurological) • Immediate Nursing care of a normal new born and essential new born care. • Neonatal resuscitation • Nursing management of preterm, low birth weight baby. • Kangaroo mother care <p>Desirable to know Nursing management of common neonatal disorder.</p> <ul style="list-style-type: none"> • Hyperbilirubinemia • Hypothermia, hyperthermia 	<p>Lecture Discussion</p> <p>Mandatory Module based teaching:</p> <p>FBNBC module (oral drills, videos)</p> <ul style="list-style-type: none"> • Workshop on neonatal resuscitation: NRP module • Lab Demonstration • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with checklist. • OSCE

			<ul style="list-style-type: none"> • Metabolic disorder • Neonatal infection • Neonatal seizures • Respiratory distress syndrome • Meconium aspiration syndrome • Birth injuries <p>Minor ailment of newborn</p> <p>Nice to know</p> <ul style="list-style-type: none"> • Organization of neonatal care unit. • Identification and Nursing management of congenital malformations 		
IV	05	Apply principles and strategies of IMNCI	<p>Integrated management of neonatal & Childhood illness</p> <p>Must know</p> <ul style="list-style-type: none"> • Principles • Case management process for 0-2month, and 2months -5 years. <p>Nice to know History of IMNCI</p>	<p>Mandatory Module based teaching : IMNCI module</p> <ul style="list-style-type: none"> • Supervised Clinical practice. • Oral drill • Videos 	<ul style="list-style-type: none"> • OSCE • Short notes • Short answer question
V	35	<ul style="list-style-type: none"> • Provide nursing care in common diseases • Identify measures to prevent common childhood diseases including immunization 	<p>Nursing management in common childhood diseases</p> <p>Must know</p> <p>Respiratory system:</p> <ul style="list-style-type: none"> • Congenital disorder: Tracheoesophageal fistula, Diaphragmatic hernia <p>Others: - Acute nasopharyngitis, Bronchitis, bronchiolitis, Tonsillitis, Bronchopneumonia, asthma Croup</p> <p>Cardiovascular system: -</p> <ul style="list-style-type: none"> • Congenital heart diseases: Cyanotic and Acyanotic. <p>Others: - Rheumatic fever</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice session • Clinical practice • Mandatory module on PLS <ul style="list-style-type: none"> - Workshop on Paediatrics Life Support(basic) 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with checklist

		<p>and Rheumatic heart disease, Congestive cardiac failure.</p> <p>Digestive system: - Congenital: Cleft lip, Cleft palate, Congenital hypertrophic pyloric stenosis, Megacolon, Malabsorption syndrome, Imperforateanus Others: Gastroenteritis, Diarrhoea, Intestinal obstruction, Hepatic diseases</p> <ul style="list-style-type: none"> - Abdominal wall defect - Appendicitis - Anorectal malformation <p>Genitourinary urinary system:</p> <ul style="list-style-type: none"> • Congenital: Wilms tumour, Extrophy of bladder, Hypospadiasis, Epispadiasis <p>Others: Nephrotic syndrome, Acute glomerulo nephritis, renal failure</p> <p>Nervous system:</p> <ul style="list-style-type: none"> • Congenital: Spinabifida, Hydrocephalous. <p>Others: Meningitis, Convulsive disorders (convulsions and seizures), Encephalitis, head injury.</p> <p>Orthopaedic disorders: Club foot, Hip dislocation and Fracture</p> <p>Nursing care of infant and children with HIV/AIDS</p> <p>Disorder of eye, ear and skin: Otitis media, Congenital cataract, Conjunctivitis, Dermatitis Impetigo</p> <p>Endocrine system: Growth hormone</p>	
--	--	--	--

			<p>insufficiency, Adrenal insufficiency, Juvenile Diabetes mellitus, Hyper and Hypo-thyroidism.</p> <p>Haematological condition</p> <ul style="list-style-type: none"> - Congenital: Haemophilia, thalassemia, DIC - Others: Anaemia, Leukaemia, Idiopathic thrombocytopenia, purpura <p>Child health</p> <p>emergencies: Poisoning, Foreign body aspiration, Hemorrhage, Burns and Drowning, Shock.</p> <p>Desirable to know</p> <ul style="list-style-type: none"> • Nutritional deficiency diseases: Malnutrition, Vitamin deficiencies • Rickets, Scurvy and Vit A deficiency. • Communicable diseases in children, their identification, nursing management in hospital in home and prevention. • Measles, Small pox, Chickenpox, Mumps, Poliomyelitis, Diphtheria, Tetanus, Pertussis, and Tuberculosis. • Atopic dermatitis • Refractive error <p>Intestinal Parasites</p> <p>Nice to know</p> <ul style="list-style-type: none"> • Genetic Disorders: Klinefelter's and Turners syndrome • Inborn error of metabolism: Phenylketonuria, galactosemia, Congenital hypothyroidism. intestinal parasites. 	
--	--	--	--	--

			Reye's syndrome		
VI	8	<ul style="list-style-type: none"> • Manage the child with behavioral & social problems • Identify the social & welfare services for challenged children 	<p>Management of behavioural and social problem in children</p> <p>Must know Child Guidance clinic</p> <p>Desirable to know</p> <ul style="list-style-type: none"> • Cerebral palsy • Mental retardation • Common behavioural disorders in children and management - Enuresis and Encopresis - Nervousness - Nail biting - Thumb sucking - Temper tantrum - Stealing - Aggressiveness - Juvenile delinquency - School phobia - Learning disability • Psychiatric disorders in children and management. - Childhood schizophrenia 	<ul style="list-style-type: none"> • Lecture cum Discussion • Field visits to child guidance clinics, school for mentally & physically, socially challenged • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of field reports

Mandatory modules

Area of placement: Third year

Paediatric Nursing

Hour	Module name and number	Objective	Content	Teaching learning activities	Method of evaluation
10	MODULE-1 Neonatal Resuscitation Programme	Assess a new born baby at birth. Perform resuscitation of a new born baby. Apply current guidelines to resuscitate neonate. Provide post resuscitation care to the new born.	Assessment, routine care. Basic neonatal resuscitation Post resuscitative care	Workshop on neonatal resuscitation: NRP module	<ul style="list-style-type: none"> • OSCE • Short notes • Short answer question • Viva
10	MODULE-2 Pediatrics basic life support)PLS(Basic)	Assess a child in emergency. Apply current guidelines to provide basic life support (BLS) to manage child health emergencies.	PLS- Basic for infants, young and old children. Choking management in infant and children.	Workshop on PLS(Basic)	<ul style="list-style-type: none"> • OSCE • Short notes • Short answer question • Viva

20	MODULE-3 IMNCI	Apply principles and strategies of IMNCI to manage neonate and children.	IMNCI guidelines to manage the neonate and children of 0-2months 2months-5years.	Module based teaching: (IMNCI module) Supervised clinical practice.	<ul style="list-style-type: none"> • OSCE • Short notes • Short answer question • Viva
30	MODULE-4 FBNBC	Provide care to normal and high-risk newborn. Recognize and manage the common neonatal problems.	<ul style="list-style-type: none"> • Essential newborn care. • Nursing management of <ul style="list-style-type: none"> -LBW -Neonatal jaundice -Hypothermia -Hyperthermia -Hypoglycemia -Neonatal sepsis -Respiratory distress syndrome -Neonatal seizure 	<ul style="list-style-type: none"> • Clinical practice. • Lab demonstration. • Lecture cum discussion. 	<ul style="list-style-type: none"> • OSCE • Short notes • Short answer question • Viva
10	Elective module-1 Adolescent health	Explain the concept, needs and preventive health care of adolescence.	<ul style="list-style-type: none"> • Review of growth development • Needs and problems • Preventive and promotive health of adolescence. 	<ul style="list-style-type: none"> • Video assisted learning • 	<ul style="list-style-type: none"> • OSCE

RS- 1 CHILD HEALTH NURSING – PRACTICAL

Placement: Third Year

Time: Practical – 415 hours

Practical – P/ IV Child Health Nursing Practical with Viva Voce	Internal Assessment	Final Practical Exam	Total Marks
	50	50	100

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

Areas	Duration In weeks	objectives	Skills	Assignments	Assessment methods
Pediatric Medicine Ward	4(including 10 hours for mandatory module on IMNCI)	<ul style="list-style-type: none"> • Provide nursing care to children with various medical disorders • Counsel & educate parents 	<ul style="list-style-type: none"> • Taking pediatric history • Physical examination & assessment of children • Administer oral, I/M, & I/V. medicine/fluids • Calculation of fluid replacement • Prepare different strengths of I/V fluids • Apply restraints • Administer O₂ inhalation by different methods • Give baby bath • Collect specimens for common investigations • Assist with common diagnostic procedures • Teach mothers/parents <ul style="list-style-type: none"> ❖ Malnutrition ❖ Oral rehydration therapy ❖ Feeding & Weaning 	<ul style="list-style-type: none"> • Give care to 3 assigned pediatric patients. • Nursing care plan- 1 • Case study/ presentation – 1 • Health talk -1 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist OSCE/ OSPE • Evaluation of case study/ presentation & health education session • Completion of activity record.

			<ul style="list-style-type: none"> ❖ Immunization schedule ❖ Playtherapy ❖ Specific Disease conditions 		
Areas	Duration (In wks.)	Objectives	Skills	Assignments	Assessment Method
Pediatric Surgery Ward	4	<ul style="list-style-type: none"> • Recognize different pediatric surgical conditions / malformations • Provide pre & post-operative care to children with common pediatric surgical conditions / malformation • Counsel & educate parent 	<ul style="list-style-type: none"> • Calculate, prepare & administer I/V fluids • Do bowel wash • Care for ostomies: <ul style="list-style-type: none"> ❖ Colostomy Irrigation ❖ Ureterostomy ❖ Gastrostomy ❖ Enterostomy • Urinary catheterization & drainage • Feeding <ul style="list-style-type: none"> ❖ Naso-gastric ❖ Gastrostomy ❖ Jejunostomy • Care of surgical wounds <ul style="list-style-type: none"> ❖ Dressing ❖ Suture removal 	<ul style="list-style-type: none"> • Give care to 3 assigned pediatrics surgical patients. • Nursing care plan- 1 • Case study/ presentation – 1 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist OSCE/ OSPE • Evaluation of case study/ presentation • Completion of activity record.
Pediatric OPD/Immunization room	1 (Including 10 hours for mandatory module on IMNCI)	<ul style="list-style-type: none"> • Perform assessment of children: health, development & anthropometry • Perform immunization • Give health education/ 	<ul style="list-style-type: none"> • Assessment of children <ul style="list-style-type: none"> ❖ Health assessment ❖ Developmental assessment ❖ Anthropometric assessment • Immunization • Health / 	Developmental study-1	<ul style="list-style-type: none"> • Assess performance with ratingscale • Completion of activity record. • Module Evaluation

		nutritional education	Nutritional education		
NICU	2 (Including 10 hours for mandatory module on NRP and 30 hours for mandatory module on FBNBC)	<ul style="list-style-type: none"> • Provide nursing care to critically ill neonate 	<ul style="list-style-type: none"> • Care of a baby in incubator /warmer • Administer fluids with infusion pumps • Total Parenteral Nutrition • Phototherapy • Care of neonate under CPAP • Exchange transfusion • Laminar flow • KMC • Breast feeding • Feeding neonates by Katori spoon. 	<ul style="list-style-type: none"> • Nursing Care Plan-1 	<ul style="list-style-type: none"> • Assess performance with rating scale • Evaluation of observation report • Completion of activity record.
PICU	1 (Including 10 hours for mandatory module on PLS)	<ul style="list-style-type: none"> • Provide nursing care to critically ill children 	<ul style="list-style-type: none"> • Care of a child on ventilator • Endotracheal Suction • Chest Physiotherapy • Monitoring of babies • Recording & reporting • Cardio Pulmonary resuscitation 	<ul style="list-style-type: none"> • Observation Report-1. 	<ul style="list-style-type: none"> • Evaluation of observation report • Completion of activity record

RS-1 Mental Health Nursing

Placement: Third year

Duration: 505 Hours

Theory = 90 hours

Practical = 415 hours

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

Scheme of examination (Theory/Written)

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

Question paper pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

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

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

COMPETENCIES:

On completion of the course, the students will be able to:

1. Apply nursing process in providing care to patients with organic brain disorders.
2. Follow the principles and standards of mental health nursing.
3. Identify and respond to psychiatric emergencies.
4. Carry out crisis interventions during emergencies under supervision.
5. Perform admission and discharge procedures as per MHCA2017
6. Explore the roles and responsibilities of community mental health nurse in delivering community mental health services.
7. Influence the patient and family members during discharge counselling for home care and regular follow up.
8. Recognize the side effects of psychotropic drugs.
9. Perform the role and functions of mental health nurse as a team.
10. Observe and assist in conducting psychological tests, psychosocial therapies, IQ assessment and ECT.
11. Observe therapeutic impasses and resolve it.

Unit no	Hours	Learning Objective	CONTENT	Teaching Learning Activity	Assessment methods
I	8	<ul style="list-style-type: none"> • Discuss the historical development and current trends in mental health nursing • Describe the concept of normal and abnormal behaviour • Discuss the Etiological factors of mental disorders • Explain the psychopathology of mental disorders • Explain the classification of mental disorders • Discuss the personality development and defence mechanisms 	<p>Introduction <u>Must Know</u> INTRODUCTION TO MENTAL HEALTH NURSING</p> <ul style="list-style-type: none"> • Perspectives of Mental Health and Mental Health nursing/ Psychiatric nursing • Concept of normal and abnormal behaviour. • Etiology: bio-psycho-social factors • Psychopathology of mental disorders: Terminologies • Classification of mental disorder: ICD/DSM <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Evolution of mental health services, treatment and nursing practices. • Review of structure and function of brain, limbic system abnormal neurotransmission • Review of personality development, defence mechanisms <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Epidemiology & Global burden of mental illness. 	Lecture cum Discussion	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Field visit Reports

			<ul style="list-style-type: none"> • Indian classification of mental disorders 		
II	4	<ul style="list-style-type: none"> • Explain the principles & standards of mental health nursing • Discuss the scope of mental health nursing and mental health team • Discuss the roles and responsibilities of a mental health nurse • Describe the conceptual models of mental health nursing 	<p><u>Must Know</u> PRINCIPLES & CONCEPT OF MENTAL HEALTH NURSING</p> <ul style="list-style-type: none"> • Principles of mental health nursing • Standards of mental health nursing practice • Mental Health Team • Scope, Role and functions of mental health nurse in various setting and factors affecting the level of nursing practice. <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Conceptual models and the role of nurse: <ul style="list-style-type: none"> ○ Psycho-analytical models ○ Behavioural models <p><u>Nice to know</u></p> <ul style="list-style-type: none"> ○ Existential model ○ Interpersonal model 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using different A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
III	8	<ul style="list-style-type: none"> • Describe nature, purpose & process of assessment of mental health status • Review about Neurological examination and diagnostic tests • Discuss the role 	<p><u>Must Know</u> ASSESSMENT OF MENTAL HEALTH STATUS</p> <ul style="list-style-type: none"> • History taking • Mental status examination • Mini mental state examination <p><u>Desirable to know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice session • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with checklist

		<p>& responsibilities of nurse</p> <ul style="list-style-type: none"> • Neurological examination review • Investigation: Related Blood chemistry, EEG, ECG, MRI & PET • Psychological tests • Role & responsibilities of nurse <p><u>Nice to know</u></p>			
IV	4	<ul style="list-style-type: none"> • Identify therapeutic communication techniques • Describe therapeutic relationships • Describe therapeutic impasse & its intervention 	<p><u>Must Know</u></p> <p>THERAPEUTIC COMMUNICATION & NURSE RELATIONSHIP</p> <ul style="list-style-type: none"> • Therapeutic and Non-Therapeutic communication Techniques • Therapeutic communication components. • Types of relationships • Nurse Patient Relationship: Goals, phases, tasks. • Therapeutic impasse & its intervention <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Overview of Communication process • Elements of nurse patient contract • Johari window <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Characteristics of therapeutic communication 	<ul style="list-style-type: none"> • Lecture cum Discussion Demonstration • Role play • Process Recording 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

V	7	<ul style="list-style-type: none"> • Explain psychopharmacology, treatment modalities & therapies used in mental disorders & role of the nurse 	<p><u>Must Know</u> TREATMENT MODALITIES USED IN MENTAL DISORDERS</p> <ul style="list-style-type: none"> • Psychopharmacology including management of Drug related emergencies. • Electro Convulsive Therapy <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • RTMS <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Deep Brain stimulation • Review of pharmacodynamics of psychotropic drugs 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice session • Clinical practice • Group Work 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
VI	7	<p>Discuss the Psycho-social therapies (individual, group psychotherapy, family therapy, CBT, milieu therapy, relaxation therapies) and role of nurse.</p>	<p><u>Must Know</u> PSYCHO SOCIAL THERAPIES</p> <ul style="list-style-type: none"> • Psychotherapy: individual-Psycho analytical therapy • Group psychotherapy and Family • CBT • Behaviour Therapy • Occupational therapy • Therapeutic community/Milieu Therapy • Relaxation therapies • Role of nurse in psychosocial therapies 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation • Clinical practice 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation • Clinical practice

			<p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Recreational therapy • Geriatric & Paediatric considerations in psychosocial therapies. <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Marital therapy • Complementary and alternative systems of medicine in psychiatry. • Music therapy • Play therapy • Psychodrama • Dance therapy 		
VII	5	Describe the aetiology, psychopathology, clinical manifestations, diagnostic criteria & management of patients with schizophrenia, & other psychotic disorders	<p><u>Must Know</u> SCHIZOPHRENIA, & OTHER PSYCHOTIC DISORDERS</p> <ul style="list-style-type: none"> • Classification, Etiology, psychopathology, types, clinical manifestations & Diagnostic Criteria • Medical, Nursing, Psychosocial Management • Follow up & home care & rehabilitation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Geriatric & Paediatric considerations of patient with schizophrenia 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answer • Assessment of patient management problems
VIII	5	Describe the etiology, psychopathology, clinical	<p><u>Must Know</u> MOOD/AFFECTIVE</p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Discussion • Case 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

		manifestations, diagnostic criteria & management of patients with mood disorders	<p style="text-align: center;">DISORDERS</p> <ul style="list-style-type: none"> • Mood disorders: Bipolar affective disorder, Mania, Depression & Persistent mood Disorder. • Etiology, psychopathology, clinical manifestations & Diagnostic Criteria Medical, Nursing Psychosocial Management • Follow – up, home care & rehabilitation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Geriatric & Paediatric Considerations of patient with Mood/Affective Disorders 	<p>Discussion</p> <ul style="list-style-type: none"> • Case Presentation • Clinical practice 	<ul style="list-style-type: none"> • Assessment of patient management problems
IX	8	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria & management of patients with neurotic, stress related & somatization disorders	<p><u>Must Know</u> NEUROTIC, STRESS RELATED & SOMATIFORM DISORDERS</p> <ul style="list-style-type: none"> • Stress adaptation model: stress & stressor, coping, resources & mechanism • Anxiety disorder, phobias, dissociation & conversion disorder, obsessive compulsive disorder, somatoform disorders, post-traumatic stress 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation • Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of patient management problems

			<p>disorder</p> <ul style="list-style-type: none"> • Etiology, psychopathology, clinical manifestations, & Diagnostic Criteria Medical, Nursing, Psychosocial Management • Follow up & home care & rehabilitation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Geriatric & Paediatric considerations of patient with neurotic, stress related & somatoform disorders. 		
X	5	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria & management of patients with substance abuse disorders	<p><u>Must Know</u></p> <p>SUBSTANCE USE DISORDERS</p> <ul style="list-style-type: none"> • Commonly used psychotropic substance: classification, forms, routes, action, intoxication & withdrawal syndrome. • Etiology of dependence, tolerance, psychological and physical dependence, & diagnosis • Medical, (detoxification, maintenance, Rehabilitation & harm reduction) Nursing, Psychosocial Management 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<p>including substance related emergencies.</p> <ul style="list-style-type: none"> • Follow up & home care & rehabilitation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Geriatric & Paediatric considerations of patient with substance use disorders 		
XI	4	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria & management of patients with personality, sexual & eating disorders	<p><u>Must Know</u></p> <p>Personality, Sexual, Sleep, & eating disorders</p> <ul style="list-style-type: none"> • Classification, Etiology, psychopathology characteristics & Diagnostic Criteria • Medical, Nursing, Psychosocial Management • Follow up & home care & rehabilitation 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of patient management problems
XII	6	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria & management of childhood & adolescent disorders including mental deficiency	<p>CHILDHOOD & ADOLESCENT DISORDERS.</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Intellectual Deficiency disorder, Pervasive Developmental Disorders, Hyperkinetic disorders, Conduct Disorders, Disorders of Speech, Language & Scholastic Skills • Classification, Etiology, psychopathology characteristics, diagnostic Criteria. 	<ul style="list-style-type: none"> • Lecture cum Discussion • Case Discussion • Case Presentation Clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answer • Assessment of patient management problems

			<ul style="list-style-type: none"> • Medical, Nursing, Psychosocial Management • Follow up & home care & rehabilitation 		
XIII	5	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria & management of organic brain disorders	<p><u>Must Know</u></p> <p>ORGANIC MENTAL DISORDERS</p> <ul style="list-style-type: none"> • Delirium, Dementia & • Classification, Etiology, psychopathology, clinical features, Diagnosis Criteria • Medical, Nursing, Psychosocial Management Follow up & home care & rehabilitation <p><u>Desirable to know</u></p> <p>Amnestic Disorders</p> <ul style="list-style-type: none"> • Classification, etiology, psychopathology, clinical features, Diagnosis Criteria • Medical, Nursing, Psychosocial Management • Geriatric considerations of patient with organic mental disorders • Follow up & home care & rehabilitation <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Other mental disorders due to 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice session <p>Clinical practice</p>	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			brain damage and dysfunction and to physical disease.		
XIV	6	Identify psychiatry emergency & carry out crisis intervention settings & role of the nurse	<p><u>Must Know</u> PSYCHIATRIC EMERGENCIES & CRISIS INTERVENTION</p> <ul style="list-style-type: none"> • Grief: Theories of grieving process, principles, techniques of counselling • Crisis: Types, Intervention: principles, techniques & process • Type of psychiatric emergencies: Suicide & Violence. • Medical, Nursing, Psychosocial Management • Follow up & home care & rehabilitation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Geriatric & Paediatric considerations of psychiatric Emergencies & Crisis Intervention 	<ul style="list-style-type: none"> • Lecture Discussion Case Discussion 	<ul style="list-style-type: none"> • Essay type • Short notes Short answer questions
XV	4	Explain legal aspects applied in mental health	<p><u>Must Know</u> LEGAL ISSUES IN MENTAL HEALTH NURSING</p> <ul style="list-style-type: none"> • Indian mental health Acts: (Mental Health 	<ul style="list-style-type: none"> • Lecture cum Discussion • Clinical/Field practice Field visits to mental health service 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions Field visit reports

			<p>care act 2017) Act, chapters, articles & their implications etc</p> <ul style="list-style-type: none"> • Rights of mentally ill clients • Admission & discharge procedures Role & responsibilities of nurse <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Indian Lunacy Act 1912, Indian Mental Health act 1987 • NDPS Act Forensic psychiatry 	agencies	
XVI	4	<ul style="list-style-type: none"> • Describe the model of preventive psychiatry • Describes community mental health services & role of the nurse 	<p><u>Must Know</u></p> <p>Community mental health nursing</p> <ul style="list-style-type: none"> • Development of community mental health services: Institutionalization versus deinstitutionalization • Model of preventive psychiatry: Mental health services available at the primary, secondary, tertiary levels including rehabilitation & role of nurse • National Mental programmes & Mental health policy <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Mental health nursing issues for special populations: Children, 		

			<p>Adolescence, Women, Elderly, Victims of violence& Abuse, Handicapped, HIV/ AIDS etc</p> <ul style="list-style-type: none">• National mental health agencies: Government & voluntary <p><u>Nice to know</u> International mental health agencies: Government & voluntary</p>		
--	--	--	---	--	--

Mandatory Module: Addiction Psychiatry

Placement: Bsc H Nursing 3rd year, Mental health Nursing

Hour	Objective of Module	Content	Teaching-learning activities	Method of evaluation
10 hrs	Describe the role of nurse in the prevention of substance use disorders in the community	<p>Must know</p> <p>Epidemiology of Substance Use</p> <p>Role of nurse in the prevention of substance use disorders in the community</p> <ul style="list-style-type: none"> - Primary prevention - Secondary prevention - Tertiary prevention <p>Brief intervention in substance use disorders</p> <p>Drug deaddiction programs in India</p> <p>Substance use disorders in vulnerable population.</p>	<p>Lecture cum discussion</p> <p>Case discussion</p>	<p>Essay type</p> <p>Short notes</p>

RS- 1 MENTAL HEALTH NURSING – PRACTICAL

Placement: Third year

Practical = 415 hours

Areas	Duration (in weeks)	Objectives	Skills	Assessment (12 weeks: including 10 hours laboratory module)	Assessment methods
Psychiatric OPD	2	<ul style="list-style-type: none"> Assess patients with mental health problems Observe & assist in therapies Counsel & educate patient & families 	<ul style="list-style-type: none"> History Taking Perform mental status examination (MSE) Assist in psychometric assessment Perform neurological examination Observe & assist in therapies Teach patients & family members 	<ul style="list-style-type: none"> History taking & mental status examination² Health Education -1 Observation Report of OPD 	<ul style="list-style-type: none"> Assess performance with rating scale Assess each skill with checklist Evaluation of health education Assessment of Observation Report Completion of activity record
Child Guidance clinic	1	<ul style="list-style-type: none"> Assessment of children with mental health problems Counsel & educate children, families & significant others 	<ul style="list-style-type: none"> History Taking Assist in psychometric assessment Observe & assist in therapies Teach family & significant others 	<ul style="list-style-type: none"> Case Work1 Observation Report of different therapies-1 	<ul style="list-style-type: none"> Assess performance with rating scale Assess each skill with checklist Evaluation of observation report
Inpatient Ward	8* (including 10 hours for mandatory module)	<ul style="list-style-type: none"> Assess patients with mental health problems Provide nursing care to patients 	<ul style="list-style-type: none"> History Taking Perform mental status examination (MSE) Assist in psychometric assessment 	<ul style="list-style-type: none"> Give care to 2-3 patients with various mental disorders Case study-1 Care Plan-2 Clinical Presentation1 Process Recording-2 Maintain drug book 	<ul style="list-style-type: none"> Assess performance with rating scale Assess each skill with checklist Evaluation of case

		<p>with various mental health problems</p> <ul style="list-style-type: none"> • Assist in various therapies • Counsel & educate patients, families & significant others 	<ul style="list-style-type: none"> • Record therapeutic communication • Administer medications • Assist in Electro Convulsive Therapy • Participate in all therapies • Prepare patient for Activities of Daily Living (ADL) • Conduct admission & Discharge counselling • Counsel & teach patients and families 		<p>study, care plan, clinical presentation, process recording</p> <ul style="list-style-type: none"> • Completion of activity record.
Community Psychiatry	1	<ul style="list-style-type: none"> • Identify patients with various mental health problem • Motivate patients for early treatment & follow up • Assist in follow up clinic • Counsel & educate patient, family & community 	<ul style="list-style-type: none"> • Conduct case work • Identify individuals with mental health problems • Assist in mental health camps & clinics • Counsel & Teach family members, patients & community 	<ul style="list-style-type: none"> • Case Work1 • Observation Report of field visits 	<ul style="list-style-type: none"> • Assess performance with rating scale • Evaluation of case work & observation report • Completion of activity record.

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

Note:

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

Competencies:

The student should be able to perform the following skills independently:

1. Apply Principles and standards of mental health Nursing in mental health settings.
2. Apply therapeutic relationships and therapeutic use of self.
3. Counsel, educate patient & families.
4. Provide therapeutic environment
5. Perform History taking, mental status examination and neurological examination.
6. Conduct process recording.
7. Administer psychotropic medications.
8. Demonstrate relaxation therapies.
9. Conduct admission & Discharge counselling.
10. Prepare patients for ECT.
11. Conduct screening and assessment of substance use and childhood mental disorders.
12. Prepare patient for Activities of Daily Living (ADL)
13. Maintain patient records.
14. Provide comprehensive nursing care to patients with various mental health problems

RS-1 Nursing Research & Statistics

Placement: Third Year

Theory = 30 +15 Hours

Practical – 100Hours

Internship Practical – 45 Hours

Paper	Subject	Internal Assessment	Final Exam	Total Marks
T/XVII	Nursing Research & Statistics	25	75	100

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

Section – A: Nursing Research

Placement: Third Year

Time: Theory – 30 Hours

Scheme of examination (Theory/Written)

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

Question paper pattern

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

Note:

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

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

Competencies

1. Identify research priority areas
2. Formulate research questions/problem statement/hypotheses
3. Review related literature on selected research problem and prepare annotated Bibliography.
4. Develop skill in preparing different types of data collection tool
5. Describe the different types of research design
6. Analyse and interpret the data
7. Explain the different sampling techniques
8. Practice computing, descriptive statistics and correlation
9. Draw figures and types of graphs on selected data
10. Develop a research proposal
11. Plan and conduct a group/individual research project
12. Describe the different methods of communicating research findings
13. Apply evidence-based practice in patient care

Unit no	Hours	Learning Objectives	CONTENT	Teaching Learning Activities	Assessment Methods
I	4	<ul style="list-style-type: none"> • Describe the concept, research, terms, need & areas of research in nursing. • Explain the steps of research process 	<p>Research and research process</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Introduction • Research- definition, purpose • Characteristics of good research • Ethics in research • Nursing research— definition • Importance of research in nursing • Research terminology • Steps of Research process <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Need and scope of nursing research 	<ul style="list-style-type: none"> • Lecture • Discussion • Narrate steps of research process followed from examples of published studies 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
II	3	Identify & state research problem and frame objectives	<p>Research problem/ question</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Research problem: definition • Sources of research problem /Identification of problem area • Formulation of Problem statement • Criteria of a good research problem • Research objectives: 	<ul style="list-style-type: none"> • Lecture • Discussion • Exercise on writing statement of problem and objectives 	<ul style="list-style-type: none"> • Short notes • Short answer

			definition <ul style="list-style-type: none"> • Qualities of good research objectives • Statement of objectives • Hypothesis • Assumptions • Delimitations 		
III	3	Review the related literature and prepare bibliography	Review of literature <u>Must Know</u> <ul style="list-style-type: none"> • Definition • Types • Need & significance • Sources • Process of ROL • Writing a ROL • CINAHL, COCHRANE, PUBMED, <u>Desirable to know</u> Developing conceptual and Theoretical framework Reference managers like Zotero and Mendeley	<ul style="list-style-type: none"> • Lecture Discussion • Exercise on reviewing one research report/article for a selected research problem • Prepare annotated bibliography 	<ul style="list-style-type: none"> • Short note • Short answer
IV	4	Describe the research approaches & designs	Research approaches and designs <u>Must Know</u> <ul style="list-style-type: none"> • Research approaches: Quantitative methods • Research designs: - definition, elements, types of designs in quantitative and qualitative approaches, advantages and disadvantages <u>Desirable to know</u> Qualitative methods <u>Nice to know</u> Mixed methods	<ul style="list-style-type: none"> • Lecture Discussion • Explain types of research approaches used from examples of published and unpublished research studies with rationale 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
V	3	Explain the sampling process	Population, Sample and Sampling <u>Must Know</u> <ul style="list-style-type: none"> • Definition of population, sample • Sampling process • Types of sampling techniques. • Sampling criteria 	Lecture cum Discussion	<ul style="list-style-type: none"> • Short notes • Short answer

			<ul style="list-style-type: none"> • Sample Size calculation • Factors influencing Sampling process <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Sampling error <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Problems of Sampling 		
VI	5	Describe the methods of data collection	<p>Data collection methods and tools:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Methods of data Collection • Advantages and disadvantages of each method • Data collection procedure • Pilot study • Commonly used tools of data collection in nursing research • Validity & Reliability of tools <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Tool construction • Data Quality assessment • Google Forms 	<ul style="list-style-type: none"> • Lecture Discussion • Practicing assignment on examples of data collection tool 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
VII	4	Analyse, interpret summarize the research data	<p>Analysis of data:</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Compilation, • Tabulation • Classification, • Summarization, • Presentation, • Interpretation of data <p><u>Nice to Know</u></p> <ul style="list-style-type: none"> • Data Entry in Excel and SPSS 	<ul style="list-style-type: none"> • Lecture • Discussion • Preparation of sample tables 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer
VIII	4	Communicate and utilize the research findings	<p>Communication and utilization of research</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Need & significance of research communication • Methods of research communication <ul style="list-style-type: none"> ▪ Verbal report ▪ Writing Research Report ▪ Writing Scientific Article/paper • Utilization of research 	<ul style="list-style-type: none"> • Lecture Discussion • Read /presentations of a sample published research report • Writing group • Research project 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer • Assessment of group research project

			findings <u>Desirable to know</u> •Critical review of Published research <u>Nice to know</u> •Indexing and impact factors of Journals		
--	--	--	---	--	--

Section – B: Statistics

Placement: Third Year
Scheme of Examination

Time: Theory – 15 Hours

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

Question paper pattern

Essay type question : 1 x 10 = 10 Marks
Short Notes : 2 x 5 = 10 Marks
Short answer type questions: 2 x 2.5 = 5 Marks

Note:

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

Unit no	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
1	15	<ul style="list-style-type: none"> • Explain the use of statistics, scales of measurement & graphical presentation of data • Describe the measures of central tendency & variability & Methods of correlation 	<p><u>Must know</u></p> <ul style="list-style-type: none"> • Introduction to statistics • Use and application of statistics in nursing research • Scales of measurement • Frequency distribution and graphical presentation of data • Descriptive statistics: Mean, Median, Mode, Standard deviation • Coefficient of correlation <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Normal probability curve • Inferential statistics: parametric & non-parametric tests • Z- test, t-test, chi-square test <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Statistical packages and its application (SPSS) • R-Software 	<ul style="list-style-type: none"> • Lecture Discussion • Practice on graphical presentation • Practice on computation of measures of central tendency, variability & correlation 	<ul style="list-style-type: none"> • Essay type question • Short notes • Short answer

B.Sc. (Hons) NURSING IV YEAR

RS-1 Obstetrics and Gynaecological Nursing including Midwifery

Placement: Fourth year

Duration: 200 hours
(Theory 120 Hrs, Lab 80)
Clinical 720 Hrs

Paper	Subject	Internal Assessment	Final Exam	Total Marks
T/XVIII	Obstetrical & Gynaecological Nursing including Midwifery	25	75	100

Scheme of Examination (Theory/Written)

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

Question Paper Pattern

Essay type question : 3 x 10 = 30 Marks
Short Notes : 5 x 5 = 25 Marks
Short answer type : 10 x 2 = 20 Marks

Note:

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

Course Description: This course is designed for students to develop knowledge and competencies on the concepts and principles of midwifery. It helps them to acquire knowledge and skills in rendering respectful maternity care to woman during normal & its deviation of antenatal, natal and postnatal periods in hospitals and community settings. It further helps to develop skills in managing normal & high-risk neonates and participate in family welfare Programme.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Demonstrate professional accountability for the delivery of nursing care
2. Recognize the trends and issues in midwifery/obstetricalnursing
3. Communicate effectively with individuals, families and professional colleagues fostering mutual respect and shared decision making to enhance health outcomes in midwifery
4. Review and describe the anatomy and physiology of human reproductive system and conception
5. Demonstrate competency in providing respectful maternity care for the women during the antenatal, Intra natal and Postnatal period.
6. Conduct normal deliveries and provide essential new-born care
7. Acquire skill in initial assessment and management of high-risk pregnancy, labour and puerperium.
8. Assist in the conduction of abnormal vaginal deliveries and caesarean section.
9. Acquire skill in identifying complications and referral services in high-risk women
10. Demonstrate competency in providing care for high-risk new-born
11. Appreciates family planning methods and motivate women to adopt family planning methods

12. Recognize the importance and role of nurse in enhancing family welfare services in community midwifery
13. Describe the assessment and management of women with gynaecological disorders.
14. Demonstrate skills in performing and assisting in specific gynaecological procedures.
15. Demonstrate skills in implementing various government programs related to MNCH care.
16. Identify the role of a midwife in vital statistics and health information management

Unit no	Hours		Learning Objective	CONTENT	Teaching /Learning Activities	Assessment Methods
	Theory	Lab				
I	4		Recognize the trends & issues in midwifery & obstetrical nursing	<p>Introduction to Midwifery and Obstetrical Nursing</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Current scenario: Midwifery in India- • Education for transformative midwifery practice in India • National health programs related to RMNCH • Current trends in midwifery and gynaecology nursing • Midwife led care units (MLCU) • Essential competencies for basic midwifery practice (ICM) • Universal rights of childbearing women • Sexual and reproductive health and rights • Legal provisions in midwifery practice in India: INC/MOH&FW regulations • Ethical issues in maternal and neonatal care • MTP act, Pre Natal-Diagnostic Test (PNDT) 	<ul style="list-style-type: none"> • Lecture cum Discussion • Explain using different A.V. aids. 	<ul style="list-style-type: none"> • Short notes • Short answer questions

				<ul style="list-style-type: none"> Invasive Procedure) Act, <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> History of midwifery in India Respectful maternity and new-born care (RMNC) Birthing centres, water birth. Adoption laws Roles and responsibilities of a midwife in different <p><u>Nice to know</u></p> <ul style="list-style-type: none"> Lotus birth Govt regulation For state midwifery practice Surrogate mothers 		
II	4	4	Describe the anatomy & physiology of female reproductive system, foetus and new-born	<p>Maternal, Fetal & New-born physiology:</p> <p>Anatomy and physiology of human reproductive system and conception</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> Female organs of reproduction Female pelvis – bones, joints, ligaments, diameters, landmarks, variations in pelvis shape Foetal skull- bones, sutures, fontanelles, diameters, moulding Fetopelvic relationship Physiology of menstrual cycle, menstrual hygiene Fertilization, conception and 	<ul style="list-style-type: none"> Lecture cum Discussion Seminars 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions

				<p>implantation</p> <ul style="list-style-type: none"> Embryological development Placental development Placental function: blood brain barrier Fetal growth and development Fetal circulation & Fetal nutrition <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> Role of hormones <p><u>Nice to know</u></p> <ul style="list-style-type: none"> Female pelvis planes, inclination Abnormalities of placenta and cord Embryology related to congenital malformation 		
III	10	10 (Including 2 hrs for SBA module)	Describe the diagnosis & management of women during antenatal period.	<p>Assessment and management of normal pregnancy (Antenatal)</p> <p><u>Must Know</u></p> <p>Pre-Pregnancy care</p> <ul style="list-style-type: none"> Preconception care Pre-conception counselling (including awareness regarding normal births), Genetic counselling <p>Normal Pregnancy</p> <ul style="list-style-type: none"> Assess and confirm pregnancy: Diagnosis of pregnancy - Signs, differential diagnosis and confirmatory tests Maternal nutrition Physiological changes during pregnancy. - Reproductive system, Cardio-vascular system Respiratory system 	<ul style="list-style-type: none"> Lecture cum Discussion Demonstration Case discussion/ presentation Health talk Practice session Counselling session Supervised clinical practice 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions Assessment of skills with check list

				<p>Urinary system, Gastro intestinal system, Metabolic changes, Skeletal changes, Skin changes Endocrine system & psychological changes</p> <p>I Trimester</p> <ul style="list-style-type: none"> • Antenatal assessment: History taking, physical examination, breast examination laboratory investigation • Identification and management of minor discomforts of pregnancy • Antenatal care and counselling (lifestyles in pregnancy, nutrition, shared decision making, risky behaviour in pregnancy, • Danger signs during pregnancy • Recording and reporting <p>II Trimester</p> <ul style="list-style-type: none"> • Rh negative and prophylactic anti D • Second trimester tests and health education • Interpreting screening results • Health education on IFA, calcium and vitamin D supplementation, glucose tolerance test, immunization etc • Antenatal assessment: 		
--	--	--	--	---	--	--

				<p>abdominal palpation, fetal assessment, auscultate fetal heart rate -Doppler and pinnard's stethoscope,</p> <ul style="list-style-type: none"> • Assessment of fetal wellbeing: DFMC, biophysical profile, non-stress test, cardio-tocography, USG, Vibro acoustic stimulation, biochemical tests. • Antenatal care • Assessment Maternal Mental Health <p>III Trimester</p> <ul style="list-style-type: none"> • Third trimester tests and screening • Antenatal assessment in late pregnancy • Antenatal education classes • Health education on exclusive breastfeeding • Danger signs of pregnancy-recognition of ruptured membranes • Ongoing risk assessment <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Planned parenthood • Socio-cultural aspects of human sexuality • Malnutrition in pregnancy • Counselling regarding sexual life during pregnancy <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Sexual development • Building partnership with women following RMC 	
--	--	--	--	--	--

				<ul style="list-style-type: none"> protocol Fathers' engagement in maternity care Birth preparedness and complication readiness Respectful care and compassionate communication Role of ASHA Referral and collaboration, empowerment Ongoing risk Alternative birthing positions women's preferred choices, Role of / ASHA Adjustment to pregnancy Teenage pregnancy Unwed mother Single parent Sexual violence 		
IV	10	12 (including 8 hrs for SBA module)	<ul style="list-style-type: none"> Describe the physiology & stages of labour Describe the management of women during intranatal period. 	<p>Physiology management and care during labour</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> Normal labour and birth Onset of birth/labour Per vaginal examination Stages of labour Organization of labour room Triage, preparation for birth Positive birth environment Drugs used in labour <p><u>First Stage</u></p> <ul style="list-style-type: none"> Physiology of normal labour Monitoring progress of labour using Partograph Assessing and monitoring fetal wellbeing 	<ul style="list-style-type: none"> Lecture -cum- Discussion Demonstration Case discussion/presentation Simulated practice Supervised clinical practice 	<ul style="list-style-type: none"> Essay type Short notes Short answer questions Assessment of skills with check list

				<ul style="list-style-type: none"> • Care during 1st stage of normal labour • Pain relief in labour (nonpharmacological and pharmacological) • Psychological support • Activity and positioning during first stage of labour • Nutrition during labour <p><u>Second stage</u></p> <ul style="list-style-type: none"> • Physiology (Mechanism of labour) • Signs of imminent labour • Intrapartum monitoring • Birth position of choice • Vaginal examination • Psychological support • Management of birth/Conduction of delivery Preparation and supporting physiological birthing • Essential new-born care (ENBC) • Assessment and care of the new-born immediately following birth <p><u>Third Stage</u></p> <ul style="list-style-type: none"> • Physiology - placental separation and expulsion, homeostasis • Physiological management of third stage of labour • Active management of third stage of labour • Examination of 		
--	--	--	--	--	--	--

				<p>placenta, membranes and vessels</p> <ul style="list-style-type: none"> • Assess perineal, vaginal tear injuries and suture (episiotomy) • Insertion of postpartum IUCD • Immediate perineal care • Initiation of breast feeding & Skin to skin contact • Vitamin K prophylaxis • New-born resuscitation <p><u>Fourth Stage</u></p> <ul style="list-style-type: none"> • Care during labour • Observation, Critical Analysis and Management of mother and new-born • Maternal assessment, observation fundal height, uterine consistency, urine output, blood loss • Documentation and Record of birth • Breastfeeding and latching • Managing uterine cramp • Maintaining records and reports <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Respectful care and communication • Promote positive childbirth experience for women • Role of / ASHA • Non-directive coaching • Alternative/complementary therapies for 		
--	--	--	--	--	--	--

				<p>natural birth</p> <ul style="list-style-type: none"> • Various childbirth practices • Evidence based practices to reduce episiotomy • Role of / ASHA • Safe environment for mother and newborn to promote bonding <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Newer modalities of labour analgesia • Lactational counselling 		
V	6	6	<ul style="list-style-type: none"> • Describe the physiology of puerperium • Describe the management of women during postnatal period. 	<p>Postpartum care/Ongoing care of women</p> <p><u>Must Know</u></p> <p>Normal puerperium-</p> <ul style="list-style-type: none"> • Physiology of puerperium • Post-natal assessment and care- • Perineal hygiene and care • Bladder and bowel function • Minor disorders of puerperium and its management • Physiology of lactation and lactation management • Postnatal counselling and psychological support • Normal postnatal baby blues and recognition of post-natal depression • Transition to parenthood • Care for the mother from 72 hours to 6 weeks after the delivery 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Health talk • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<ul style="list-style-type: none"> • Diet during lactation • Post-partum family planning • Follow – up of postnatal mothers. • Drugs used in the postnatal period • Records and reports <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Facility and home-based care • Cultural competence (Taboos related to postnatal diet and practices) <p><u>Nice to know</u></p>		
VI	6	8	Describe the assessment & management of normal neonate.	<p>Assessment and ongoing care of normal neonates:</p> <p><u>Must Know</u></p> <p>Normal Neonate –</p> <ul style="list-style-type: none"> • Physiological adaptation • New-born assessment and care • Screening for congenital anomalies • Care of new-born from 72 hours to 6 weeks after the delivery (Routine care of new-born) • Skin to skin contact and thermoregulation • Infection prevention (asepsis and hand washing) • Immunization • Minor disorders of new-born and its management • Breast feeding & its technique <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Recent trends in new-born management • Lactation 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<p>suppression</p> <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Family centred care • Respectful care and communication 		
VII	20	10	Describe the identification & management of women with high-risk pregnancy.	<p>Recognition and Management of problems during Pregnancy</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Assessment of high-risk pregnancy • Adolescent pregnancy, elderly primi, grand multiparity • Drugs used in management of high-risk pregnancies <p>Problems/complications of pregnancy</p> <ul style="list-style-type: none"> • Hyper-emesis gravidarum • Hydramnios • Multiple pregnancy • Bleeding in early pregnancy: abortion, ectopic pregnancy, vesicular mole • Bleeding in late pregnancy placenta previa, abruption placenta <p>Medical conditions complicating pregnancy:</p> <ul style="list-style-type: none"> • Anaemia • PIH • GDM • Cardiac disease • Pulmonary disease • Thyrotoxicosis • Rh incompatibility • Infections in pregnancy - urinary tract infection, bacterial, viral, 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstrate using video, films, scan reports, partograph etc. Case discussion/ presentation • Health talk • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<p>protozoal, fungal</p> <ul style="list-style-type: none"> • STDs, HIV • Intra uterine growth restriction <ul style="list-style-type: none"> o Intra uterine fatal death • Gynaecological conditions complicating pregnancy & Mental health issues during pregnancy • Management and care of conditions as per the protocol • Policy for the referral services • Maintenance of records and reports <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • High risk approach • Rare varieties of ectopic pregnancy • caesarean scar ectopic <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Trauma in Pregnancy • Research & evidence-based approach in high-risk management 		
VIII	20	15	Describe management of abnormal labour & obstetrical emergencies.	<p>Recognition of Deviations from The Normal and Management During Labour</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Preterm labour: Prevention and management of preterm labour; (Use of antenatal corticosteroids in preterm labour) • Premature rupture of membranes • Malposition's and abnormal presentations 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Case Discussion/ presentation • Practice Session • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<p>(breech, brow, face, shoulder)</p> <ul style="list-style-type: none"> • Contracted Pelvis, Cephalo Pelvic Disproportion (CPD) • Disorders of uterine action- Prolonged labour, Precipitate labour, Dysfunctional labour <p>Complications of third stage:</p> <ul style="list-style-type: none"> • Retained placenta, Injuries to birth canal, Postpartum haemorrhage (bimanual compression of the uterus, aortic compression, uterine balloon tamponade) <p>Obstetric emergencies-</p> <ul style="list-style-type: none"> • Ruptured uterus, Obstetrical shock, Amniotic fluid embolism, Cord prolapses, Shoulder dystocia, Uterine inversion, Vasa previa <p>Obstetric procedures-</p> <ul style="list-style-type: none"> • Forceps delivery, Vacuum delivery, Version • Induction of labour- Medical & surgical • Caesarean section: indications and preparation • Anaesthesia and analgesia in obstetrics • Episiotomy and suturing • Nursing management of women undergoing Obstetrical operations and procedures 		
--	--	--	--	---	--	--

				<ul style="list-style-type: none"> • Drugs used in management of abnormal labour <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Various types of pelvis • Manual removal of the placenta • Destructive operations in obstetrics <p><u>Nice to know</u> Surgical management</p>		
IX	10	5	Describe management of postnatal complications	<p>Recognition and Management of postnatal problems</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Physical examination, identification of deviation from normal <p>Puerperal complications and its management</p> <ul style="list-style-type: none"> • Puerperal pyrexia and Puerperal sepsis • Urinary complications • Secondary Postpartum haemorrhage • Vulval hematoma • Breast engorgement including mastitis/breast abscess, feeding problem • Thrombophlebitis • DVT • Uterine sub involution • Vesico vaginal fistula (VVF), Recto vaginal fistula (RVF) • Drugs used in abnormal puerperium <p><u>Desirable to know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Case Discussion/ presentation • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<ul style="list-style-type: none"> • Breast milk banking and storage • Postpartum blues / psychosis <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Policy about referral 		
X	7	5	Identify the high-risk neonates & their nursing management.	<p>Assessment and management of High-risk new-born</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Screening of high-risk new-born • Levels of neonatal care • Prematurity, Post maturity • Low birth weight • Kangaroo Mother care • Birth asphyxia / Hypoxic encephalopathy • Neonatal sepsis • Hypothermia • Respiratory distress • Jaundice • Neonatal infections • High fever • Convulsion • Neonatal tetanus • Congenital anomalies • Baby of HIV positive mothers • Baby of Rh-negative mothers • Birth injuries • SIDS (sudden infant death syndrome) prevention, Compassionate care • Calculation of fluid requirements, EBM / formula feeds / tube feeding • Drugs used for high-risk new-borns • Maintenance of records and reports <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Models of new-born care in India – NBCC; SNCUs • Protocols of infection control 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Case Discussion/ presentation • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<ul style="list-style-type: none"> • Integrated Management of Neonatal Childhood Illnesses (IMNCI) <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Home based new-born care program • Community facility integration in new-born care • Decision making about management and referral • Recent trends & guidelines • Bereavement counselling 		
XI	15	5	Describe management of gynaecological disorders	<p>Assessment and management of women with gynaecological disorders</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Gynaecological assessment - History and Physical assessment • Breast Self- Examination • Congenital abnormalities of female reproductive system • Menstrual abnormalities • Abnormal uterine bleeding • Pelvic Inflammatory disease • Infections of the reproductive tract • Endometriosis • Uterine displacement • Uterine and cervical fibroids and polyps • Tumours – uterine, cervical, ovarian, vaginal, vulval • HPV vaccination • Cysts – ovarian, vulval • Cystocele, urethrocele, rectocele • Genitor-urinary fistula • Breast disorders – 	<ul style="list-style-type: none"> • Lecture cum Discussion • Drug book • Drug presentation 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<p>infections, deformities, cysts, tumours</p> <ul style="list-style-type: none"> • Disorders of Puberty and menopause • Hormonal replacement therapy • Assessment and management of couples with infertility • Infertility – definition, causes • Counselling the infertile couple • Investigations – male and female • Artificial Reproductive technology • Surrogacy, sperm and ovum donation, cryopreservation • Drugs used in treatment of gynaecological disorders <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Role of hormones • Guidelines and counselling of menopausal • Adoption – counselling, procedures Injuries and Trauma; Sexual violence <p><u>Nice to know</u></p>		
XII	8	<ul style="list-style-type: none"> • Appreciate the importance of family welfare programme • Describe the methods of contraception & role of nurse in family welfare programme. 	<p>Family planning and family welfare program</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Vital indicators Maternal mortality ratio, Infant Mortality Rate, Neonatal Mortality Rate, Perinatal mortality rate, fertility rates • Maternal death audit • National health Mission • National programs related to maternal new-born 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice Session • Supervised clinical practice • Group project Counselling session • Field visits 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of skills with check list

				<p>child health and adolescent services</p> <p>Family welfare services</p> <ul style="list-style-type: none"> • Impact of early / frequent childbearing • Comprehensive range of family planning methods Action, effectiveness, advantages, disadvantages, myths, misconception and medical eligibility criteria (MEC) for use of various family planning methods • Emergency contraceptives • Importance of follow up and recommended timing • Unintended or mistimed pregnancy • Post abortion counselling <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Planned Parenthood • Family planning Counselling using balanced Counselling • Strategy (BCS) • Family welfare programme at state level <p><u>Nice to know</u></p> <ul style="list-style-type: none"> • Recent trends and research in contraception • Past state and national programme 	
--	--	--	--	---	--

MANDATORY MODULE: Skilled Birth Attender (SBA)

Placement: B.Sc. Fourth year

Subject: OBG nursing

Hour		Objective	content	Teaching Learning activities	Method of evaluation
T	P				
10	30	<ul style="list-style-type: none"> • To perform antenatal and postnatal assessment and provide need-based care. • To screen and care of high-risk pregnancy. • To assess progress of labour. • To recognize and manage all 4 stages of labour in supervised clinical area. • To perform new-born assessment and provide care. 	Calculation of EDD & Gestational weeks Abdominal palpation and Auscultation of fetal heart sounds Plotting and interpreting the partograph Assessment of cervical dilatation and effacement Conduction of normal delivery Essential new-born care Active management of third stage labour New-born resuscitation Management of postpartum haemorrhage Breastfeeding Kangaroo mother care PPIUCD	Lecture com discussion Demonstration Practice session Supervised clinical practice	Essay type question Short notes question Short answer questions OSCE Viva-voce

RS-1 Obstetrical & Gynaecological Nursing including Midwifery- Practical

Total Hours: 720 hours

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

Note:

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

Competencies:

On completion of the course, the students will be able to:

1. Counsel women and their families on pre-conception care
2. Perform antenatal assessment and care of pregnant women
3. Assist specific investigations for antenatal mothers
4. Counsel mothers and their families on antenatal care and preparation for parenthood
5. Conduct childbirth education classes
6. Set up and manage a delivery unit
7. Prepare and provide respectful maternity care for mothers in labour
8. Perform per-vaginal examination for a woman in labour if indicated
9. Conduct normal delivery with essential new-born care
10. Demonstrate skills in resuscitating the new-born
11. Perform assessment and provide care for postnatal mothers and their new-born
12. Identify and refer antenatal, postnatal mothers with complications
13. Demonstrate skills in resuscitating the new-born
14. Assist and manage complications during labour
15. Assist in the conduction of abnormal vaginal deliveries and caesarean section
16. Provide care for high risk antenatal, intra-natal and postnatal mothers and their families using nursing process approach
17. Provide post abortion care and family welfare services
18. Demonstrate IUCD insertion and removal
19. Demonstrate skills in performing and assisting in specific gynaecological procedures
20. Counsel and care for couples with infertility

Clinical Area	Weeks	Objectives	Content	Assignments	Assessment Method
Antenatal OPD including infertility clinics / Reproductive medicine, / PTCT Centre and Antenatal ward	3 (Including 5hrs for module on SBA)	Assessment of pregnant women	<ul style="list-style-type: none"> • History collection • Calculation EDD & gestational week from LMP • Physical examination • Obstetric examination • Pregnancy confirmation test • Urine testing • Blood testing for Haemoglobin • Blood test for malaria • Blood test for grouping and typing • Kick chart /DFMC /NST / CTG / USG • Antenatal counselling • Preparation for childbirth • Birth preparedness and complication readiness • Care of mothers with complications in pregnancy 	<ul style="list-style-type: none"> • *Conduct antenatal examination - 30 • Health talk- 1 • Case book recordings • IUD insertion – 5 • Counselling – 2 • Simulation exercise on recording & reporting - 1 	<ul style="list-style-type: none"> • Verification of findings of antenatal examination • Completion of Case book recordings • Completion of practical record.
Post-partum clinic, Postnatal Ward, Family welfare and post-partum	3 (Including 5hrs for module on SBA)	<ul style="list-style-type: none"> • Provide nursing care to postnatal mother & baby • Counsel & teach mother 	<ul style="list-style-type: none"> • Postnatal history collection and physical examination • Postnatal assessment • Identify 	<ul style="list-style-type: none"> • Give care to Postnatal mothers - 20 • Health talk - 1 • Case study- 1 • Case Presentation -1 	<ul style="list-style-type: none"> • Assessment of clinical performance with rating scale • Assessment of each

clinic		& family for parenthood	postnatal complications <ul style="list-style-type: none"> • Care of postnatal mothers – normal, caesarean section • Care of normal newborn • Post abortion care • Post abortion counselling • Lactation management • Postnatal counselling • Health teaching on postnatal and new-born care • Family welfare counselling 	<ul style="list-style-type: none"> • Case book recordings 	skill with checklist <ul style="list-style-type: none"> • Completion of case book recordings • Completion of practical record.
Labour room	6 (Including 20 hrs for module on SBA)	<ul style="list-style-type: none"> • Assess woman in labour • Carry out per-vaginal examinations • Conduct normal deliveries • Perform episiotomy & suture it • Resuscitate new-borns 	Assessment of woman in labour <ul style="list-style-type: none"> • Partograph • Per vaginal examination if indicated • Obstetric examination • Care during first stage of labour • Pain management techniques • Positions in labour • Preparation for labour – articles, physical, psychological 	<ul style="list-style-type: none"> • *Conduct normal deliveries – 20 • *Prevaginal examination – 5 • *Perform & suture the episiotomies – 5 • *Resuscitate new-borns – 5 • * • *Witness abnormal deliveries – 5 • Case book recordings • Maintain drug book. 	<ul style="list-style-type: none"> • Assessment of clinical performance • Assess each skill with checklist • Evaluation of case study, presentation & health education sessions • Completion of case book recording. • Completion

			<ul style="list-style-type: none"> • Conduction of normal delivery • Essential new-born care • New-born resuscitation • Active management of third stage of labour • Monitoring and care during fourth stage of labour • Identification and management of prolonged labour, cervical dystocia, CPD, contracted pelvis • Assist in the management of abnormal deliveries – posterior position, breech deliveries, twin deliveries, vacuum extraction, forceps delivery, shoulder dystocia • Assist in cervical encerclage procedures, D&C, D&E • Management of trauma to 		n of practical record.
--	--	--	--	--	------------------------

			<p>the birth canal, retained placenta, post-partum haemorrhage, uterine atony</p> <ul style="list-style-type: none"> • Management of obstetric shock 		
Neonatal Intensive Care Unit	2	Provide nursing care to new-born at risk	<ul style="list-style-type: none"> • Neonatal assessment – identification of complication, congenital anomalies. • Observation of new-born • Neonatal resuscitation • Phototherapy and management of jaundice in new-born • Assist in Exchange transfusion • Care of baby in incubator, ventilator, warmer. • Infection control in the nursery • Neonatal medications • Neonatal feeding– spoon and katori, paladai, NG tube 	<ul style="list-style-type: none"> • Case Study- 1 • Observation study - 1 	<ul style="list-style-type: none"> • Assessment of clinical performance • Assessment of each skill with checklist • Evaluation of case study & observation study • Completion of case book recording. • Completion of practical record.

			<ul style="list-style-type: none"> Starting IV line for newborn, drug calculation Assist in advanced neonatal procedures 		
Obstetric / Gynae operation theatre	1	Assist with Caesarean Sections, MTP & other surgical procedures	<ul style="list-style-type: none"> Observe / Assist in caesarean section Management of retained placenta Gynaecological surgeries Hysterectomy Uterine rupture 	<ul style="list-style-type: none"> *Assist with Caesarean Sections – 2 <ul style="list-style-type: none"> Assist with MTP & other surgical procedures – 1 Case book recordings * 	<ul style="list-style-type: none"> Assessment of each skill with checklist Evaluation of observation study Completion of case book recording. Completion of practical record.
Gynaecology ward	2	<ul style="list-style-type: none"> Provide care to patients with gynaecological disorders Counsel & educate patients & families 	<ul style="list-style-type: none"> Care of women with gynaecological conditions Vaginal douche application Health education 	<ul style="list-style-type: none"> Provide care to 2-3 assigned patients. Nursing Care Plan-1 Maintain drug book. Breast self-examination 	<ul style="list-style-type: none"> Assess performance with rating scale Assess each skill with checklist Evaluation of Care plan Completion of practical record.
CHC, PHC, SC / Community midwifery	1	Provide home based antenatal, postnatal & newborn care Counsel for &	<ul style="list-style-type: none"> Conduction of antenatal and postnatal clinics Conduction 	<ul style="list-style-type: none"> Conduct antenatal examination -1 Health talk- 1 Give care to 	<ul style="list-style-type: none"> Assess performance with rating scale

		provide family welfare services	<p>of other special clinics and camps – Tubectomy, vasectomy</p> <ul style="list-style-type: none"> • Tracking every pregnancy – RCH number • Maintaining vital statistics • Care of antenatal and postnatal mother at home • New-born care at home • Identification of complication and referral • Follow up of mothers and new-borns • Micro birth planning • Conduction of family welfare clinics • Distribution of contraceptives • Community health education 	<p>Postnatal mothers – 2</p> <ul style="list-style-type: none"> • Health talk - 1 • Perform newborn assessment -1 • Health education -2 • Family welfare service health education -2 	<ul style="list-style-type: none"> • Assess each skill with checklist • Completion of practical record.
--	--	---------------------------------	--	--	---

RS-1 Community Health Nursing II

(Including MLHP Course)

Placement: Fourth year

Duration: Theory = 110hrs

Practical hours=375 hrs.

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

Scheme of Examination (Theory/Written)

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

Question Paper Pattern

Essay type question: 3 x 10 = 30 Marks
Short Notes: 5 x 5 = 25 Marks
Short answer type: 10 x 2 = 20 Marks

Note:

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

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

Competencies

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

- Discuss the evolution of community health and community health nursing.
- Develop basic understanding about the health care planning and the present health care delivery system in India at various levels.
- Identify the significance of primary health care and comprehensive primary health care as part of current health care delivery system focus.
- Identify the roles and responsibilities of health team members and explain their job description.
- Describe the roles and responsibilities of Mid-Level Health Care Providers (MHCPs) in Health Wellness Centres (HWCs).
- Describe occupational health hazards, occupational diseases and the role of nurses in occupational health programmes.
- Describe the roles and responsibilities of community health nursing personnel in various level.

- Discuss and participate in National health and family welfare programmes.
- Applies principles of community health nursing and nursing process in community health nursing practice.
- Assess, diagnose, manage and refer clients with various communicable and non- communicable diseases appropriately to different levels.
- Provide maternal, new born, child care and reproductive health including adolescent care in the urban and rural health care settings.
- Demonstrate beginning practice competencies/skills relevant to provide comprehensive primary health care/community-based care to clients with common diseases and disorders including emergency and first aid care at home/clinics/centres as per predetermined protocols/drug standing orders approved by MOH&FW.
- Identify health problems of focus group members and provide primary care, counselling and supportive health services.
- Demonstrate initiative in preparing themselves and the community for disaster preparedness and management.
- Provide health education and counselling to individuals and families applying the principles and techniques of behaviour change communication appropriate to community settings.

Unit No	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	5	Define concept, scope, principles & historical development of community health & community health nursing.	<p>Introduction</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Community health nursing approaches • Epidemiological approach • Problem solving approach • Evidence based approach <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Historical development of <ul style="list-style-type: none"> ○ Community Health ○ Community Health Nursing -Pre-independence 	Lecture cum Discussion	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions

			-Post-independence <u>Nice to know</u> • Nursing theories in Community health		
II	8	Describe health plans, policies, various health committees & health problems in India.	Health Planning and Policies and problems <u>Must Know</u> • National health planning in India- NITI AAYOG • Various committees and commissions on health and family welfare • National health policy (2017) • National population policy • Health problems in India • Ayushman Bharat • Universal health coverage <u>Desirable to know</u> • National health policies (1983, 2002) • National health planning in India Five Year Plans	• Lecture cum Discussion • Panel Discussion	• Essay type • Short note • Short Answers questions
III	12	• Describe the system of delivery of community health services in rural & urban areas • List the functions of	Delivery of community health services <u>Must Know</u> • Centre • State • District • Others- Defence,	• Lecture cum Discussion • Visits to various health delivery systems • Supervised field practice • Panel discussion	• Essay type • Short note • Short answers questions

		<p>various levels & their staffing pattern</p> <ul style="list-style-type: none"> • Explain the components of health services • Describe alternative systems of health promotion & health maintenance • Describe the chain of referral system • Describe various health schemes in India 	<p>Railways etc.</p> <ul style="list-style-type: none"> • Rural: Organization, staffing and functions of rural health services provided by government at: <ul style="list-style-type: none"> ○ Village ○ Sub centre ○ Primary health Centre ○ Community health centre/ sub divisional Hospitals • Urban: Organization, staffing and functions of urban health services provided by government at: <ul style="list-style-type: none"> ○ Slums ○ Dispensaries ○ Maternal and child health centers ○ Special clinics ○ Hospitals ○ Corporation/ Municipality/ Board • Systems of medicine and health care <ul style="list-style-type: none"> ○ Allopathy • Referral system • Health insurance schemes; ESI, CGHS, other recent health insurance schemes <p><u>Desirable to know</u></p> <ul style="list-style-type: none"> • Planning, budgeting and material management of 		
--	--	--	---	--	--

			<ul style="list-style-type: none"> ○ SC/HWC (financial management and accounting and computing at SC - activities which funds are received, accounting and book keeping requirements- accounting principles and policies, book of accounts to be maintained, basic accounting entries, accounting process, payments and expenditure, fixed assets, SOE reporting format, utilization certificate reporting) ● Systems of Medicine and health care ○ Indian system of Medicine and homeopathy ○ Alternative health care system like yoga, meditation, social and spiritual healing etc. <p><u>Nice to know</u></p> <ul style="list-style-type: none"> ● Planning, budgeting and material management of <ul style="list-style-type: none"> ○ PHC ○ CHC 		
IV	20	<ul style="list-style-type: none"> ● Describe Community Health Nursing approaches & concepts 	Community Health Services; Roles and responsibilities of	<ul style="list-style-type: none"> ● Lecture cum Discussion ● Demonstration ● Practice session ● Supervised 	<ul style="list-style-type: none"> ● Essay type ● Short note ● Short answers questions

		<ul style="list-style-type: none"> • Describe the roles & responsibilities of Community Health Nursing personnel. 	<p>Community health nursing personnel</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Community Health Services <ul style="list-style-type: none"> ○ Family health care and family welfare services ○ Maternal and child health and family welfare; antenatal, natal, postnatal, MTP act, female foeticide act, child adoption act, organization of labour room ○ Information Education Communication (IEC/BCC) ○ Health Management Information system (HMIS)- Introduction, data elements, recording and reporting formats, data quality issues; vital statistics and its sources ○ Maintenance of records & reports (importance, legal implications, purposes, uses of records, principles of record writing, filing of 	<p>field practice</p> <ul style="list-style-type: none"> • Participation in camps • Group Project 	
--	--	--	---	---	--

			<p>records, types of records; Reports- purposes, types, documentation of activities; Medical records department - functions, filing and retention; Electronic medical records- capabilities and components, electronic health record - EHR, advantages and disadvantages)</p> <ul style="list-style-type: none"> ○ Environmental sanitation ○ Treatment of minor ailments based on standing orders ○ School health services ○ Occupational health and hazards ○ Job description of community health nursing personnel (DPHN, health visitor, PHN, MPHW (Male and female), ASHA and AWW, roles and responsibilities of mid- Level Health Care Providers 	
--	--	--	--	--

			<p>(MLHPs), Village Health Sanitation and Nutrition Committees (VHSNC)</p> <ul style="list-style-type: none"> • Role of community health nurse in <ul style="list-style-type: none"> ○ Leadership, training and supervision of various categories of health workers ○ Health team management ○ Organization of clinics, camps; types, preparation, planning conduct and evaluation ○ Waste management in the center clinics, home and community (rural and urban) 		
V	13	Describe & appreciate the activities of community health nurse in assisting individuals & groups to promote & maintain their health	<p>Assisting individuals and groups to promote and maintain their health</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Empowerment for self-care of individuals, families and groups in – <p>A. Assessment of individual and family</p> <ul style="list-style-type: none"> ○ Monitoring growth and development of 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Practice session • Supervised field practice • Individual/group/ family/ community health education 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions

			<p>children, temperature and blood pressure monitoring, menstrual cycle, breast self- examination and testicles, warning signs of various diseases</p> <ul style="list-style-type: none"> ○ Tests: Urine for sugar and albumin, blood sugar <p>B. Seek health services for</p> <ul style="list-style-type: none"> ○ Routine checkup, immunization, counseling, diagnosis treatment, follow up <p>C. Health assessment of</p> <ul style="list-style-type: none"> ○ antenatal, postnatal, infant, toddler, preschooler, schooler, adult and elderly. <p>D. Sensitize and handle social issues affecting health and development for self and family</p> <ul style="list-style-type: none"> ○ Women Empowerment ○ Women and child abuse ○ Abuse of elders ○ Female foeticide ○ Commercial sex workers ○ Food adulteration ○ Substance abuse 	
--	--	--	---	--

			<p>E. Utilize community resources for self and family</p> <ul style="list-style-type: none"> ○ Trauma services ○ Old age homes, organization of geriatric health services ○ Orphanage ○ Homes for physically and mentally challenged individuals ○ Home for destitute ○ Palliative care ○ Hospice centre <p>F. Various Government schemes for the aged, widows, physically and mentally challenged</p>		
VI	40 (including mandatory module 1)	<ul style="list-style-type: none"> • Describe national health & family welfare programmes & role of a nurse • Describe the various health schemes in India 	<p>National health and family welfare programmes and the role of a nurse</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Communicable disease control programme <ol style="list-style-type: none"> 1) National ARI programme 2) National tuberculosis elimination programme (NTEP) 3) National vector borne disease control programme (malaria, filaria, 	<ul style="list-style-type: none"> • Lecture cum Discussion • Participation in national health programmes • Field visits • Mandatory module on NPPHC- 2 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions

			<p>kalazar, Japanese encephalitis, dengue, chikungunya)</p> <p>4) National leprosy eradication programme</p> <p>5) National AIDS control programme; STD control programme</p> <p>• Non-communicable disease control programme</p> <p>1) National programme for control of blindness and visual impairment</p> <p>2) National programme for prevention and control of diabetes, cardiovascular disease and stroke; National cancer control programme</p> <p>3) National mental health programme</p> <p>4) National programme for palliative care</p> <p>• National nutritional programmes</p> <p>1) ICDS programme</p> <p>2) Other nutritional programmes- Vitamin A prophylaxis programme,</p>		
--	--	--	--	--	--

			<p>Prophylaxis against nutritional anemia, Iodine deficiency disorder control programme, Mid-day meal programme, Mid-day meal scheme</p> <ul style="list-style-type: none"> • Mother and Child health programmes <ol style="list-style-type: none"> 1) RMNCH+A 2) RKSK • Other health programmes <ol style="list-style-type: none"> 1) NHM: NRHM, NUHM 2) Sustainable development goals 3) Expanded programme on immunization; pulse polio programme 4) Integrated disease surveillance programme 5) National water supply and sanitation programme 6) National programme for control and treatment of occupational diseases 7) National programme for the prevention and control of deafness 		
--	--	--	--	--	--

			<p>6) National programme for health care of elderly.</p> <p><u>Desirable to know</u></p> <p>• Communicable disease control programme</p> <p>1) National guinea worm eradication programme</p> <p>2) Yaws eradication programme</p> <p>• Non-communicable disease control programme</p> <p>1) National oral health programme</p> <p>• Other nutritional programmes-</p> <p>1) Special nutrition programme,</p> <p>2) Balwadi nutrition programme</p> <p>3) National programme for prevention and control of fluorosis</p> <p>• Mother and Child health programmes</p> <p>National family welfare programme – RCH programme historical development, organization, administration, research, constraints; RCH I and II</p> <p>• Other health</p>		
--	--	--	---	--	--

			<p>programmes</p> <ol style="list-style-type: none"> 1) Minimum needs programme 2) 20-point programme 3) Millennium development goals 4) Community development programme 		
VII	7	Discuss Disaster Management and describe the role of nurse in disaster management	<p>Disaster Management</p> <p><u>Must Know</u></p> <ul style="list-style-type: none"> • Disaster-definition, types and magnitude • Disaster Management continuum – disaster mitigation, disaster preparedness, disaster response, and rehabilitation • Disaster- impact on health and post disaster management • Basic disaster supplies kit • Personal protection in different type of emergencies • Man-made disasters • Role of Community health nurse in disaster management 	<ul style="list-style-type: none"> • Lecture cum Discussion • Field visits 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions
VIII	5	Explain the roles and functions of	<p>Health Agencies</p> <p><u>Must Know</u></p>	<ul style="list-style-type: none"> • Lecture cum Discussion • Field visits 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions

		<p>various national and international health agencies</p>	<ul style="list-style-type: none"> • International: WHO, UNDP, World Bank, FAO, UNICEF, JHPEIGO, SIDA, Red cross, UNESCO, ILO, CARE etc. • National – Indian Red cross, Indian council for child welfare, Family planning Association of India (FPAI), Tuberculosis Association of India, Central Social Welfare Board, All India women’s conference, Blind Association of India <p><u>Desirable to Know</u></p> <ul style="list-style-type: none"> • International: USAID, UNFPA, European Commission (EC) 		
--	--	---	--	--	--

➤ **Mandatory module 1:** Standard treatment protocols used in national health programme part 2

Hour		Objective of module	Content	Teaching learning activities	Evaluation
Th	Pr				
10 hr		Identify standard treatment protocols used in various national health programmes	<ul style="list-style-type: none"> • RBSK • HBNC • Home based young child care • Facility based new born care • NPCDCS • Vitamin A prophylaxis programme • Prophylaxis against nutritional anemia • Iodine deficiency disorder control programme • NRC: Management of child with SAM • Expanded programme on immunization; pulse polio programme 	<ul style="list-style-type: none"> • Lecture cum Discussion • Field visits 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions

10		Describe disaster management in different types of disasters	<p>Disaster Management <u>Must Know</u></p> <ul style="list-style-type: none"> • Disaster-definition, types and magnitude • Disaster management: Cyclone, Landslide, flood, Earthquakes, Drought • Institutional bodies- National, State and district level 	<ul style="list-style-type: none"> • Lecture cum Discussion • Video assisted learning • Self-directed learning 	<ul style="list-style-type: none"> • Essay type • Short note • Short answers questions
----	--	--	--	---	---

RS-1 Community Health Nursing II – Practical

(Including MLHP Course)

Placement: Fourth Year

Time: Practical – 375Hours

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

Note:

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

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Community	2week for urban 5weeks for rural	<ul style="list-style-type: none"> • Identify community profile • Identify prevalent communicable and noncommunicable diseases • Diagnose health needs of Individual, families &community • Plan, provide &evaluate care • Organize and conducts school health programme • Organize and conduct health 	<ul style="list-style-type: none"> • Community health Survey • Community diagnosis • Family care: Home adaptation of common procedures • Perform investigations- <ul style="list-style-type: none"> ○ Smear for malaria, Rapid diagnostic tests- malaria, syphilis, HIV, UPT etc. ○ Blood for glucose, hemoglobin ○ Urine for albumin, sugar • Home visit: Bag Technique • Organize and conduct clinics- antenatal, postnatal, well baby clinic, camps etc. • Nutrition 	<ul style="list-style-type: none"> • Report of <ul style="list-style-type: none"> ○ Community survey ○ Health camp ○ School health programme ○ Observational visits • Family care study – 1 • Family care plan – 1 • Project - 1 • Health talk-1 • Mass awareness-1 • Case book Recordings • Report of field visits to <ul style="list-style-type: none"> ○ Programme headquarters ○ District hospital 	<ul style="list-style-type: none"> • Assess clinical performance with rating scale • Evaluation of community survey, report of health camp, school health programme, family care study, family care plan, project & health talk • Completion of survey formats • Completion of case book recordings

		<p>camps/clinics</p> <ul style="list-style-type: none"> • Organize group for self-help and involve clients in their own health activities • Provide family welfare services • Counsel and educate individual, family & community • Collect Vital health statistics • Maintain Records & reports 	<p>assessment</p> <ul style="list-style-type: none"> • Screen manage and referrals for: <ul style="list-style-type: none"> o High risk mothers and neonates o Accidents and Emergencies o Illnesses: physical and mental o Disabilities • Conduct delivery at center/home, episiotomy and suturing • Resuscitate newborn • Organize and conduct school Health programme <ul style="list-style-type: none"> • screen, manage, refer children • Collaborate with health& allied agencies • Train & supervise health workers • Provide family welfare services: insertion of IUD, assist in tubectomy, vasectomy, counsel couples for adopting family planning measures • Counsel & teach individual, family &community about: HIV, TB, Diabetes, hypertension, Mental Health, adolescents health, elderly's health, physically & mentally challenged individuals etc. • Document & 		
--	--	--	--	--	--

			maintain Individual, family (family folder) & administrative records		
			<ul style="list-style-type: none"> • Write reports of centre, disease, national health programme/projects 		

Mid-Level Health care Provider (MLHP) Course **Placement: Fourth Year**

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Method
Health and wellness centre	1 (45 hrs)	<ul style="list-style-type: none"> • Assess community profile and make a community diagnosis. • Identify capacity building needs among community. • Conduct awareness programme for community. • Plan procedure according to family. • Organize labour room and plan for safe delivery. • Identify and manage STD/RTIs. • Counsel and educate individual, family & community. 	<ul style="list-style-type: none"> • Health assessment of an individual • Assessment of nutritional deficiencies • Social mobilization skills • Hand washing skills • Bio-medical waste management • Examination of lumps. • Assessment of the patient with eye, ear, nose and throat (ENT) problems. • Identification and management of dental problems. • Suturing of superficial wounds. • Management of aches and pain. • Management of common fevers. • Assessment and care of health problems among elderly. • Assessment and care of antenatal woman. • Monitoring labour and maintaining partograph. 	<ul style="list-style-type: none"> • Observation report of health and wellness centre • Use of equipments • Micro birth planning • Treatment of minor ailments. 	<ul style="list-style-type: none"> • Ongoing clinical assessment • Completion of logbook

			<ul style="list-style-type: none"> • Conducting vaginal examination. • Micro birth planning. • Promoting and monitoring growth and development and plotting chart • Transportation of baby and common accidents/mishaps in labour room. • Identification and management of complications during labor. • Assessment and management of STIs/RTIs. • Management of abortion and counseling. • Adolescent counseling (GATHER approach). • Infant and young child feeding and counselling • Use of equipments in sub centre • Immunization and safe injection practices. 		
--	--	--	---	--	--

RS-1 NURSING MANAGEMENT

Placement: Fourth Year

Theory – 60 Hours
Practical -100 Hours

Paper	Subject	Internal assessment	Final Exam	Total marks
T/ XX	Nursing Management	25	75	100

Scheme of Examination (Theory/Written)

Paper	Subject	Duration	Max. Marks (Final Exam)
T/ XX	Nursing Management	3 hours	75

Question Paper Pattern

Essay type question	: 3 x 10 = 30 Marks
Short Notes	: 5 x 5 = 25 Marks
Short answer type	: 10 x 2 = 20 Marks

Note:

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

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

COMPETENCIES:

On completion of the course, the students will be able to:

1. Analyse the health care trends influencing development of nursing services in India
2. Describe the principles, functions and process of management and administration applied to nursing
3. Develop basic understanding and beginning competencies in planning and organizing nursing services in different health care settings.
4. Apply the concept of human resource management and identify the job description for all categories of nursing personnel including in service education
5. Discuss the principles and methods of staffing and scheduling in an individual hospital/nursing unit
6. Develop skill in management of materials and supplies including inventory control
7. Develop team working and inter professional collaboration competencies

8. Identify effective leadership styles and develop leadership competencies
9. Utilize the knowledge of principles and line of control and participate in quality management and evaluation activities
10. Utilize the knowledge related to financial planning in nursing services and education during budgetary process
11. Apply the knowledge of nursing informatics in maintenance of records and reports relevant to patient information, nursing care and progress Demonstrate understanding of the INC guidelines for establishment and accreditation of educational institutions in terms of faculty norms, physical infrastructure and clinical facilities
12. Demonstrate beginning competencies in planning, organizing and staffing at college including implementation and evaluation of curriculum
13. Identify the legal issues and laws relevant to nursing practice and education
14. Apply the knowledge and utilize the various opportunities for professional advancement

Unit No.	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	4	<ul style="list-style-type: none"> • Explain the principles and function of management 	<p>Introduction to management & Administration in nursing</p> <ul style="list-style-type: none"> • Definition, nature & Philosophy • Principles of management • Functions of management • Comparison of administration and management. • Need of nursing management and Administration. • Role of Nurse as a manager • Desirable to know • concepts of management • Nice to know • Theories of management 	<ul style="list-style-type: none"> • Lecture cum Discussion 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions
II	8	Describe the elements and process of management	<p>Management Process</p> <ul style="list-style-type: none"> • Planning: Meaning, definition, importance, Nature, Characteristics, objectives, Principles, Components, steps, types. • Organization: Meaning, definition importance, nature. • Human resource management: Staffing; Meaning, definition, objectives, norms. Recruiting, selecting, deployment, retaining, promoting, superannuation etc. 	<ul style="list-style-type: none"> • Lecture cum Discussion • Simulated exercises • Case studies • Explain using organization chart & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

			<ul style="list-style-type: none"> • Directing: Definition features, importance, principles and elements role and functions. • Controlling: Quality management, definition, importance, limitations, characteristics, elements, type of control • Budgeting: concept, steps, principles, types, audit, • Material management: equipment and supplies, ABC analysis, VED analysis, Principles of good material management. • Program Evaluation Review Technique (PERT), • Desirable to know • Philosophy • levels of organization • philosophy, types of staff, factors affecting staffing. • control process. • Bench marking, activity plan (Gantt Chart) <p>Nice to know</p> <ul style="list-style-type: none"> • operational plan, change • organizational effectiveness and organizational climate. • creativity and innovations. • cost benefit analysis 		
III	15	Describe the Management of nursing services in the hospital and community. <ul style="list-style-type: none"> • Explain about the process of planning, organizing, staffing and controlling 	Management of nursing services in the Hospital and Community <ul style="list-style-type: none"> • Nursing Management <ul style="list-style-type: none"> ○ Concept, types, principles and techniques. ○ Vision, mission and statement. ○ Philosophy, aims and objectives. • Planning: <ul style="list-style-type: none"> ○ Formation of mission, philosophy, aims and objectives of Nursing services and Hospital and community. ○ Strategic Planning. • Organization: Hospital and patient care 	<ul style="list-style-type: none"> • Lecture cum Discussion • Demonstration • Simulated Exercises • Case studies • Supervised practice in ward-writing, indents, preparing duty roster, ward supervision • Assignments on duties and responsibilities of ward sister • Writing report 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of problem-solving exercises • Assessment of the assignment • Performance evaluation by ward sister with rating scale

			<p>units including ward management.</p> <ul style="list-style-type: none"> • Emergency and disaster management • Human resource management: <ul style="list-style-type: none"> ○ Staffing: ○ Recruiting, selecting, deployment, retaining, promoting, superannuation etc. ○ Patients/ population classification systems ○ Patients/ population assignment and Nursing care responsibilities. ○ • Directing and leading: delegation, participatory management <ul style="list-style-type: none"> ○ Assignments, rotations, delegations ○ Managing Conflict. • Controlling/Evaluation: <ul style="list-style-type: none"> ○ Supervision and guidance. ○ Maintenance of discipline. ○ Nursing Rounds/ Visits, Nursing protocols, Manuals ○ Quality Assurance: Continuous Quality Improvement, Standards Models, Audit ○ Documentation ○ Records and reports • Budgeting; proposal, projecting requirements for staff, equipment and supplies for <ul style="list-style-type: none"> ○ Patient care units, Hospital and community services. ○ Emergency and disaster management • Material Management: Planning and procurement procedures, equipment and supplies, inventory control, auditing and maintenance in <ul style="list-style-type: none"> ○ Hospital and patient care units Emergency and disaster management. 		
--	--	--	--	--	--

			<p>Desirable to know</p> <ul style="list-style-type: none"> • Current trends and issues in Nursing Management. • Innovation in Nursing • Categories of nursing personnel including job description of all levels • Implement standards, policies, procedures and practices • Performance appraisal • proposal, projecting requirements for staff, equipment and supplies for Patient care units, Hospital and community services. <p>Nice to know</p> <ul style="list-style-type: none"> • Theories and models. <ul style="list-style-type: none"> ○ Personnel Policies. Staff development and welfare: Adult Education, Career Development 		
IV	5	Describe the concepts, theories and techniques of Organizational behavior and human relations	<p>Organizational behaviour and human relations</p> <ul style="list-style-type: none"> • Concepts and theories • Review of channels • Group dynamics • Techniques of: <ul style="list-style-type: none"> ○ Communication; and ○ Interpersonal relationships ○ Human relations: • Relations with professional associations and employee unions and collective bargaining <p>Desirable to know</p> <ul style="list-style-type: none"> • Leadership styles • Public relations in context of nursing <p>Nice to know.</p> <ul style="list-style-type: none"> • Review of motivation; concepts and theories 	<ul style="list-style-type: none"> • Lecture cum Discussion • Role plays • Group games • Self-assessment • Case discussion • Practice Session using organization chart & other A.V. aids. 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of problem solving
V	15	<ul style="list-style-type: none"> • Describe management of Nursing educational institutions • Participate 	<p>Management of nursing educational institutions</p> <ul style="list-style-type: none"> <input type="checkbox"/> Planning <input type="checkbox"/> Establishment of nursing educational institution INC norms and guidelines 	<ul style="list-style-type: none"> • Lecture cum Discussion • Role plays • Counselling session 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions Assess the planning &

		<p>in planning and organizing in service education</p> <ul style="list-style-type: none"> • program 	<ul style="list-style-type: none"> <input type="checkbox"/> Co-ordination with <ul style="list-style-type: none"> o Regulatory bodies o Accreditation o Affiliation <input type="checkbox"/> Formulation of Philosophy/objectives <input type="checkbox"/> Organisation of college/School <ul style="list-style-type: none"> o Structure o Committees o Physical facilities o Clinical facilities o Hostel Facilities o Transport Facilities o Curriculum planning <input type="checkbox"/> Recruitment of Faculty and staff <ul style="list-style-type: none"> o Selection o Recruitment o Job description o Placement o Performance appraisal o Development and welfare: <ul style="list-style-type: none"> In service education o Nature & scope of in service education program, o Principles of adult learning, <input type="checkbox"/> Budgeting <input type="checkbox"/> Equipments and supplies; audio visual equipment, laboratory equipment, books, journals etc. <ul style="list-style-type: none"> o College/ School o Hostel <input type="checkbox"/> Student's selection and admission <ul style="list-style-type: none"> o Selection o Admission o Guidance and Counseling o Maintaining discipline <input type="checkbox"/> Maintenance of Records: <ul style="list-style-type: none"> College/School. <input type="checkbox"/> Institutional Records and reports administrative, faculty, staff and students. 		<p>conduct of the educational session</p>
VI	10	<ul style="list-style-type: none"> • Describe the ethical and legal responsibilities of a professional nurse. 	<p>Regulatory Bodies, Legal and Ethical Issues</p> <ul style="list-style-type: none"> • Regulatory bodies; Indian Nursing Council (INC), State Nursing Council Acts; - constitution, functions. • Current trends and issues 	<ul style="list-style-type: none"> • Lecture • Discussion • Case Discussion • Panel discussion • Role plays • Critical incidents • Visit to 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions • Assessment of critical incidents

		<ul style="list-style-type: none"> • Explain the legal aspects related to nursing practice. 	<p>in Nursing</p> <ul style="list-style-type: none"> • Legal aspects in Nursing <ul style="list-style-type: none"> ○ Legal terms related to practice; registration and licensing ○ Laws related to nursing practice; Breach and penalties ○ Malpractice and negligence • Practice standards for Nursing: INC <ul style="list-style-type: none"> ○ Professional responsibilities and accountability. • Patient Rights. • Desirable to know • Professional ethics Code of ethics; Indian Nursing Council, International Council for Nurses (ICN). Code of professional conduct; INC, ICN • Nice to know <ul style="list-style-type: none"> • Consumer protection act Clinical Establishment Act. 	INC/SNRCs	
VII	3	<ul style="list-style-type: none"> • Explain the various opportunities for professional advancement 	<p>Professional Advancement:</p> <ul style="list-style-type: none"> • Continuing education • Career opportunities • Membership with professional organizations; National and International <p>Desirable to know</p> <ul style="list-style-type: none"> • Participation in research activities • Publications; Journals newspapers etc. 	<ul style="list-style-type: none"> • Lecture cum Discussion • Review/Presentation of published articles • Group Exercises -Plan & conduct an educational session for in service nursing personnel Group work on maintenance of bulletin board 	<ul style="list-style-type: none"> • Essay type • Short notes • Short answer questions

RS-1 NURSING MANAGEMENT (PRACTICAL)

Placement: 4thYear

Practical: 100 hrs.

Competencies:

1. Prepare organizational chart of hospital/ Nursing services/nursing department
2. Calculate staffing requirements for a particular nursing unit/ward
3. Formulate Job description at different levels of care
4. Prepare duty roster for staff/ students at different levels
5. Participate in procuring/purchase of equipment & supplies
6. Maintain and store inventory and keep daily records
7. Prepare and maintain various records & reports of the settings-incident reports/adverse reports/audit reports
8. Prepare and implement protocols & manuals
9. Participate in supervision, evaluation and conducting in service education for the staff.
10. Prepare Master plan, time table and clinical rotation
11. Participate in planning, conducting and evaluation of clinical teaching
12. Participate in evaluation of students' clinical experience
13. Participate in planning and conducting practical examination OSCE-end of posting

Area	Duration	Objectives	Skills	Assignments	Assessment methods
Medical and surgical wards	10 days	<ul style="list-style-type: none"> ➤ Understand management of nursing services in hospital 	<ul style="list-style-type: none"> ➤ Vision, Mission, statement ➤ Formulate philosophy ➤ Delegate responsibilities, prepare rotation plans, conflict management, maintain discipline, quality assurance, documentation, prepare budget proposal, inventory control 	<ul style="list-style-type: none"> ➤ Vision, Mission, statement ➤ Formulate philosophy ➤ Preparation of duty roaster of nursing officers and other staff ➤ Rotation plan ➤ Writing nurses report ➤ Budget proposal ➤ Preparation of indent forms and procurement forms of assigned areas ➤ Developing checklist for 	<p>Evaluation of written assignment</p> <p>Evaluation of activities mentioned in assignment</p>

				performance appraisal of staff	
Different administrative offices	3 days	Develop communication skills & interpersonal relationship	<ul style="list-style-type: none"> ➤ Communication ➤ Inter personal relationship ➤ Public relation 	➤ Group activity on communication	Rating on a checklist of the group activity
field visits	2 days	Understand the ethical & legal responsibilities	<ul style="list-style-type: none"> ➤ Patient right ➤ Consumer protection 	Report on visit to INC, ONC	Evaluation of visit reports

ALL INDIA INSTITUTE OF MEDICAL SCIENCES



BHUBANESWAR (ODISHA)

CURRICULUM & REGULATIONS

FOR

M.Sc. Nursing

COLLEGE OF NURSING

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Sijua, Post-Dumuduma, Bhubaneswar-751019 Odisha

Reprint- 2021

CONTENTS

S. No.	Content	Page No.
1.	Philosophy	1
2.	Aim	2
3.	Objectives	2
4.	Regulation of AIIMS act	2
5.	Short title and commencement	2
6.	Course of AIIMS instruction	4
7.	Scheme of Examination	5
First Year		
8.	Nursing Education	8
9.	Advanced Nursing Practice	14
10.	Nursing Research & Statistics	19
11.	<i>Clinical Specialty – I</i>	
	- Medical Surgical Nursing	26
	- Obstetrics & Gynaecological Nursing	34
	- Paediatric Nursing	40
	- Psychiatric Nursing	46
	- Community Health Nursing	52
Second Year		
12.	Nursing Management	57
13.	<i>Clinical Specialty-II</i>	
	- Medical Surgical Nursing- Cardio Vascular & Thoracic Nursing	63
	- Medical Surgical Nursing – Critical Care Nursing	72
	- Medical Surgical Nursing – Oncology Nursing	81
	- Medical Surgical Nursing - Neurosciences Nursing	90
	- Medical Surgical Nursing - Nephro- Urology Nursing	98
	- Medical Surgical Nursing - Orthopedic Nursing	106
	- Medical Surgical Nursing - Gastro Enterology Nursing	114
	- Obstetrics & Gynaecological Nursing	122
	- Paediatric Nursing	129
	- Psychiatric Nursing	134
	- Community Health Nursing	143

SYLLABUS AND REGULATIONS FOR M.Sc. NURSING PROGRAM

Preamble

The syllabus and regulations for the M.Sc. Nursing is developed by an Expert Advisory Committee for Nursing Education and Research constituted by Ministry of Health & Family Welfare, Government of India comprising of twelve members under the chairpersonship of Director, Bhubaneswar. The Ministry of Health and Family Welfare, New Delhi has directed through vide letter No. Z-28016/53/2006/SSH Dated 23rd October, 2013 to implement the same syllabus and regulations in all new six AIIMS. Later, minor modifications were made as per the practical needs of the course and the said modification were approved in the 2nd academic committee meeting held on 30th April, 2017 and consequently also approved by meetings of 2nd Governing Body and 2nd Institute Body held on 11th May, 2017 and 30th May, 2017 respectively. The final draft of the syllabus and regulations for M.Sc. Nursing course is presented in this document.

Philosophy

National Health Policy (NHP) 2002 emphasizes the need to prepare nurses to function in super-specialty areas who are required in tertiary care institutions, entrusting some limited public health functions to nurses after providing adequate training, and increase the ratio of degree holding vis-a-vis diploma holding nurses.

It is observed that there is an acute shortage of nursing faculty in under graduate and postgraduate nursing programme in India.

Postgraduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Postgraduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the national priorities and the changing needs of the society. This programme provides the basis for the post material programme in nursing. Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

Aim

The aim of the postgraduate programme in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings. The candidate is prepared to function in a leadership position in selected areas of Clinical Speciality, Nursing Education, Nursing Administration and in Nursing Research and to carry out independent Research Work.

Objectives

On completion of the two-year M.Sc. Nursing programme, the graduate will be able to: -

1. Utilize/apply the concepts, theories and principles of nursing science.
2. Demonstrate advance competence in practice of nursing.
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health-related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship as team members with other disciplines.
8. Demonstrate interest in continuous learning for personal and professional advancement.

Regulation of AIIMS Act

As per the AIIMS act the institute is empowered to grant medical, dental, nursing degrees, diplomas and other academic distinctions and titles.

Short Title and Commencement

These regulations shall be called “the regulations for the Master of Science in Nursing (M.Sc. Nursing) Degree. The regulations and syllabi are subject to modifications from to time by the institute academic committee.

Eligibility for Admission

1. Candidate should have passed the B.Sc. (Hons.) Nursing/ B.Sc. Nursing/ Post Basic B.Sc. Nursing degree from this Institution or any other Indian Nursing Council (INC) recognized college/institute with 60% aggregate marks (55% in case of SC/ST candidates).
2. The candidate should be a registered nurse and registered midwife (RN, RM) with any state nursing registration council.
3. Candidate shall be medically fit.

Entrance/ Selection test:

Selection of the candidates based on the merit of the entrance examination held by AIIMS.

Duration of the Course:

The duration of certified study for the M.Sc. Nursing course shall extend over a period of two academic years. The maximum period to complete the course successfully should not exceed four years.

Commencement of the Course:

This course shall commence from August of the academic year.

Medium of Instruction:

English shall be the medium of instruction for the entire subject of study and for examinations of the M.Sc. Nursing degree course.

Curriculum:

The curriculum and the syllabi for the course shall be as prescribed/ revised by the institute academic committee from time to time.

Eligibility criteria for Postgraduate (M.Sc. Nursing) Teacher:

Nursing faculty/Nursing expert in same clinical speciality holding Ph.D./M.Sc. Nursing with minimum of 3 years teaching experience after obtaining Postgraduate nursing qualification.

Branches of Study:

The following shall be the branches of study for M.Sc. Nursing,

Branch I – Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical Care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing*)

Branch II – Paediatric Nursing

Branch III – Obstetric &Gynaecological Nursing

Branch IV – Community Health Nursing

Branch V – Psychiatric Nursing

COURSE OF INSTRUCTION

S. No.	First Year		
	Subjects	Theory Hrs.	Practical Hrs.
1.	Nursing Education	150	150
2.	Advanced Nursing Practice	150	200
3.	Nursing Research & Statistics	150	100
4.	*Clinical Specialty- I	150	650
	Total	600	1100

S. No.	Second Year		
	Subjects	Theory Hrs.	Practical Hrs.
1.	Nursing Management	150	150
2.	Nursing Research (Dissertation)	----	300
3.	**Clinical specialty- II	150	950
	Total	300	1400

Educational visit 2 weeks

*Clinical specialty- I

- Branch I - Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro Urology Nursing/ Orthopedic Nursing/ Gastroenterology Nursing*)
- Branch II - Paediatric Nursing
- Branch III - Obstetrics & Gynaecological Nursing
- Branch IV - Community Health Nursing
- Branch V - Psychiatric Nursing

**Clinical specialty- II

- Branch I - Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing*)
- Branch II - Paediatric Nursing
- Branch III - Obstetrics & Gynaecological Nursing
- Branch IV - Community Health Nursing
- Branch V - Psychiatric Nursing

Note: Students have to maintain log book for each activity during the course of study

SCHEME OF EXAMINATION

S. No	Year & Subjects	Theory			Practical	
		Hours	Internal	External	Internal	External
I Year						
1.	Nursing Education	3	25	75	50	50
2.	Advanced Nursing Practice	3	25	75		
3.	Nursing Research & Statistics	3	25	75		
4.	Clinical Specialty- I	3	25	75	100	100
	Total		100	300	150	150
II Year						
1.	Nursing Management	3	25	75		
2.	Dissertation & viva				100	100
3.	Clinical Specialty- II	3	25	75	100	100
	Total		50	150	200	200

Rules of Examination:

1. Minimum pass marks shall be 50% in each of the theory and practical papers separately.
2. A candidate must have minimum 80% attendance in theory and 90% in practical (irrespective of the kind of absence) for appearing in examination.
3. If a candidate fails in the subject (either theory or practical) has to appear in the examination for both theory and practical paper of that subject.
4. Supplementary examination will be held within a gap of 45 days from the declaration of results of annual examination. A candidate, who fails to pass in any subject, shall be permitted to continue studies into the second year. However, he/she shall not be allowed to appear for the second-year examination until he/she passes all the subjects of the first year M.Sc. Nursing examination.
5. A candidate not fulfilling the eligibility criteria for writing the professional examination will be treated as the attempt and she /he will be only allowed to write the subsequent professional examination after meeting the eligibility criteria.
6. A candidate must have 100% attendance in each of the clinical areas before award of Degree.

7. Internal assessment marks in both theory and practical of all should not exceed more than 75% on an average in a batch.
8. The maximum period to complete the course successfully should not exceed four years.
9. An examiner should be a Lecturer/Assistant Professor or above position in a College of Nursing with M.Sc. Nursing qualification in respective subject with minimum of 5 years of teaching experience after obtaining postgraduate nursing qualification at Collegiate/ University level.
10. All practical examinations must be held in the respective clinical areas. Internal and External Examiner should jointly conduct practical examination of each student.
11. Following Question pattern should be followed.

Theory: Types of Question and distribution of marks (75 Marks)

1.	Essay: 3x15 marks	45 marks
2.	Short notes: 6x5 marks <i>(2 choices may be given)</i>	30 marks
Nursing Research and Statistics:		75 marks
Section A- Nursing Research		50 marks
1.	Essay: 2x15 marks	30 marks
2.	Short notes: 4x5 marks <i>(1 choice may be given)</i>	20 marks
Section B: Statistics		25 marks
1.	Essay: 1x15 marks	15 marks
2.	Short notes: 2x5 marks <i>(1 choice may be given)</i>	10 marks

Practical:

- 5 hours of practical examination per student.
- Practical examination in clinical specialties includes Long case, OSCE/OSPE and Viva-Voce.
- Long case examination refers to application of nursing process to an assigned patient.

12. Submission of Research Proposal/ Dissertation: As per institute policy.

During the programme of study, the candidate is required to write a dissertation in his/ her specialty. The candidate shall submit a dissertation in the field of specialty, before THREE months of the final examination for evaluation.

13. Eligibility for award of the Degree:

The candidate will be awarded the degree of Master of Science in Nursing when a candidate has put in the prescribed programme of study for two years and successfully completed all programme requirements including the submission of dissertation.

Award of class:

- a. 75% (Seventy-five percent) and above in aggregate is considered to have passed with **Distinction.**
- b. 60 % (Sixty percent) to less 75 % (Seventy-five) in aggregate is considered to have passed in **First Class.**
- c. 50% (Fifty percent) and above is considered to have **Passed.**
- d. Below 50% (Fifty percent) is considered to have **Failed.**

Meritorious candidates will be awarded medals as per Institute Policy

M.Sc. Nursing

First Year

1-NURSING EDUCATION

Placement: First Year

Hours of Instruction

Theory: 150 Hours

Practical: 150 Hours

Total: 300 Hours

Course Description:

This course is designed to assist students to develop a broad understanding of fundamental principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives:

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

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyse the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyse the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of evaluation.
15. Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude.

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
I	10		<p>Introduction:</p> <ul style="list-style-type: none"> ➤ Education, definitions, aims, concepts of philosophies & their educational implications, ➤ Impact of Social, economical, political & technological changes in education: <ul style="list-style-type: none"> • Professional education • Current trends and issues in education • women education, adult education • Liberal education • Educational reforms and national educational policy, reports of various educational commissions • Trends in development of nursing education: <ul style="list-style-type: none"> - Historical development of nursing education in India - Overview of nursing education in the world, review of the pattern of nursing education in U.K., USA and India. - Agencies of education in India.
II	20	30	<p>Teaching – Learning Process</p> <ul style="list-style-type: none"> ➤ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ➤ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives. ➤ Competency based education (CBE) and outcome-based education (OBE). ➤ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ➤ Instruction strategies– Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning(SDL), micro-teaching, computer assisted instruction(CAI), computer assisted learning (CAL).

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
III	10	10	<p>Instructional media and methods</p> <ul style="list-style-type: none"> ➤ Key concepts in the selection and use of media in education ➤ Developing learning resource material using different media ➤ Instructional aides - types, uses, selection, preparation, utilization. ➤ Teacher's role in procuring and managing instructional Aids - Projected and non-projected aids, multimedia, video-tele conferencing etc.
IV	10		<p>Measurement and evaluation:</p> <ul style="list-style-type: none"> ➤ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ➤ Principles of assessment, formative and summative assessment- internal assessment, external examination, advantages and disadvantages. ➤ Criterion and norm referenced evaluation,
V	12	10	<p>Standardized and non-standardized tests:</p> <ul style="list-style-type: none"> ➤ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- <ul style="list-style-type: none"> • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ➤ Question bank-preparation, validation, moderation by panel, utilization ➤ Developing a system for maintaining confidentiality
VI	8	5	<p>Administration, Scoring and Reporting</p> <ul style="list-style-type: none"> ➤ Administering a test; scoring, grading versus marks ➤ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	8	6	<p>Standardized Tools</p> <ul style="list-style-type: none"> ➤ Tests of intelligence, aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
			abilities and disabilities.
VIII	5	6	<p>Nursing Educational programs</p> <ul style="list-style-type: none"> ➤ Perspectives of nursing education: Global & national. ➤ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate/ Post Basic B.Sc. Nursing, M.Sc. (N) programs, M.Phil., Ph.D. in Nursing, Post Basic super-specialty diploma programs, nurse practitioner programs.
IX	12	25	<p>Continuing Education in Nursing</p> <ul style="list-style-type: none"> ➤ Concepts, definition, importance, need scope, principles of adult learning, and assessment of learning needs, priorities, and resources. ➤ Program planning, implementation and evaluation of continuing education programs and in-service education. ➤ Research in continuing education. ➤ Distance and correspondence education in nursing.
X	10	10	<p>Curriculum Development</p> <ul style="list-style-type: none"> ➤ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, types and framework. ➤ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ➤ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ➤ Equivalency of courses: Transcripts, credit system.
XI	8	4	<p>Teacher preparation</p> <ul style="list-style-type: none"> ➤ Teacher- roles & responsibilities, functions, characteristics, competencies, qualities ➤ Preparation of professional teacher ➤ Organizing professional aspects of teacher preparation programs ➤ Evaluation: self and peer ➤ Critical analysis of various programs of teacher education in

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
			India.
XII	10	5	Guidance and counseling <ul style="list-style-type: none"> ➤ Concept, principles, need, difference between guidance and counseling, trends and issues. ➤ Guidance and counseling services: diagnostic and remedial. ➤ Counseling process ➤ Coordination and organization of services. ➤ Techniques of counseling: Interview, case work, characteristics of counselor, problems counseling. ➤ Professional preparation and training for counseling.
XIII	12	10	Administration of Nursing Curriculum <ul style="list-style-type: none"> ➤ Role of curriculum coordinator – planning, implementation and evaluation. ➤ Evaluation of educational programs in nursing- course and program. ➤ Factors influencing faculty staff relationship and techniques of working together. ➤ Concept of faculty supervisor (dual) position. ➤ Curriculum research in nursing. ➤ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions <ul style="list-style-type: none"> ➤ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	Development and maintenance of standards and accreditation in nursing education programs <ul style="list-style-type: none"> ➤ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ➤ Role of Professional associations and unions.

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching.
- Conduct practice teachings using different teaching strategies (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc).
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc)
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching	Methods of evaluation
<ul style="list-style-type: none">• Lecture cum discussion• Demonstration/ Return demonstration• Seminar / Presentations• Project work• Field visits• Workshop	<ul style="list-style-type: none">• Tests• Presentation• Project work• Written assignments

2-ADVANCED NURSING PRACTICE

Placement: First Year

Hours of Instruction

Theory: 150 Hours

Practical: 200 Hours

Total: 350 Hours

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyse different theories of nursing and other disciplines.

Objectives:

At the end of the course the students will be able to:

1. Appreciate and analyse the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self-development and professional advancement.

UNIT No.	HOUR	CONTENT
I	10	<p>Nursing as a Profession</p> <ul style="list-style-type: none"> ➤ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ➤ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ➤ Role of regulatory bodies ➤ Professional organizations and unions, self-defence, individual and collective bargaining ➤ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ➤ Role of research, leadership and management. ➤ Quality assurance in nursing. ➤ Futuristic nursing. ➤ Innovation in nursing
II	5	<p>Health care delivery</p> <ul style="list-style-type: none"> ➤ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ➤ Health care delivery system- national, state, district and local level. ➤ Major stakeholders in the health care system -Government, non- govt, Industry and other professionals. ➤ Patterns of nursing care delivery in India. ➤ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non- governmental agencies. ➤ Information, education and communication (IEC). ➤ Tele-medicine.
III	10	<p>Genetics</p> <ul style="list-style-type: none"> ➤ Review of cellular division, mutation and patterns/ law of inheritance, Human genome project, The Genomic era. ➤ Basic concepts of Genes, Chromosomes & DNA. ➤ Common genetic disorders ➤ Role of genetics in common disease [Cancer, Lifestyle diseases] ➤ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening,

		<ul style="list-style-type: none"> ➤ Ethical, legal & psychosocial issues in genetic testing. ➤ Genetic counselling. ➤ Practical application of genetics in nursing.
IV	15	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Scope, epidemiological approach and methods, Morbidity, mortality, rates and ratios ➤ Concepts of causation of diseases and their screening, ➤ Application of epidemiology in health care delivery, Health surveillance and health informatics ➤ Role of nurse
V	25	<p>Bio-Psycho social pathology</p> <ul style="list-style-type: none"> ➤ Pathophysiology and Psychodynamics of disease causation ➤ Concept of Self health ➤ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style ➤ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. ➤ Treatment aspects: pharmacological and pre- post-operative care aspects, ➤ Cardio pulmonary resuscitation. ➤ End of life Care: care of dying and dead ➤ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ➤ Role of nurse- Evidence based nursing practice; Best practices.
VI	20	<p>Philosophy and Theories of Nursing</p> <ul style="list-style-type: none"> ➤ Values, Conceptual models, approach. ➤ Nursing theories: Nightingale's, Hendersons's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson, Parsce, etc. and their applications, Health belief models, communication and management models. ➤ Evidence based practice model.
VII	5	<p>Scope of nursing practice:</p> <ul style="list-style-type: none"> - Alternative modalities of care - Extended role of the nurse, in promotive, preventive, curative and restorative

		health care delivery system in community and institutions.
VIII	15	<p>Nursing process approach</p> <ul style="list-style-type: none"> ➤ Health Assessment- illness status of patients / clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ➤ Methods of collection, analysis and utilization of data relevant to nursing process. ➤ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.
IX	20	<p>Psychological aspects and Human relations</p> <ul style="list-style-type: none"> ➤ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ➤ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ➤ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ➤ Sexuality and sexual health. ➤ Stress and adaptation, crisis and its intervention. ➤ Coping with loss, death and grieving ➤ Principles and techniques of Counseling.
X	15	<p>Nursing practice</p> <ul style="list-style-type: none"> ➤ Framework, scope and trends of nursing practice. ➤ Alternative modalities of care, alternative systems of health and complimentary therapies. ➤ Health promotion and primary health care. ➤ Independent practice issues- Independent nurse-midwifery practitioner. ➤ Collaboration issues and models-within and outside nursing. ➤ Models of Prevention, mass communication ➤ Family nursing, Home nursing, ➤ Gender sensitive issues and women empowerment. ➤ Disaster nursing. ➤ Geriatric considerations in nursing. ➤ Evidence based nursing practice- Best practices ➤ Trans-cultural nursing.
XI	10	<p>Computer applications for patient care delivery system and nursing practice</p> <ul style="list-style-type: none"> ➤ Use of computers in teaching, learning, research and nursing practice. ➤ Windows, MS office: Word, Excel, Power Point,

		<ul style="list-style-type: none"> ➤ Internet, literature search ➤ Statistical packages.
--	--	--

PRACTICAL

Clinical posting in the following areas:

Specialty area- in-patient unit	4 weeks
Emergency/ICU	2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis-5
- Presentation of comparative picture of theories-1
- Case- work using model of prevention-1
- Annotated bibliography 5

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation:

- Tests,
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications;

CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostomy, mechanical ventilation, Pacemaker, Haemodialysis, Peritoneal dialysis, LP, BT, Thoracentesis and abdominal paracentesis, OT techniques, Health assessment, Triage, Pulse oximetry

3-NURSING RESEARCH AND STATISTICS

Placement: First Year

Hours of Instruction

Theory 150 Hours

Practical 100 Hours

Total: 250 Hours

PART-A: NURSING RESEARCH

Theory 100 Hours

Practical 50 Hours

Total: 150 Hours

Course Description

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management.

General Objectives

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

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

COURSE OUTLINE			
Unit	Hours		Content Existing
	Theory	Practical	
I	10		Introduction: <ul style="list-style-type: none"> ➤ Need for research in nursing ➤ Methods of acquiring knowledge – problem solving and scientific method. ➤ Research – Definition, characteristics, purposes, kinds of research ➤ Historical Evolution of research in nursing ➤ Basic research terms ➤ Scope of nursing research: areas, problems in nursing, health and social research ➤ Concept of evidence-based practice ➤ Ethics in research ➤ Overview of Research process
II	5	5	Review of Literature <ul style="list-style-type: none"> ➤ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature. ➤ Methods of writing review of literature writing anecdotal bibliography
III	10	5	Research problem: <ul style="list-style-type: none"> ➤ Identification of research problem ➤ Formulation of problem statement and research objectives ➤ Definition of terms ➤ Assumptions and delimitations ➤ Identification of variables ➤ Hypothesis – definition, formulation and types.
IV	12		Research Approaches and designs <ul style="list-style-type: none"> ➤ Types of research approaches: Characteristics, types advantages and disadvantages ➤ Types of research designs <ul style="list-style-type: none"> • Quantitative research designs: Experimental, Non experimental, RCT • Qualitative research designs: Phenomenology, Grounded theory, Ethnography and case study. ➤ Mixed research designs
V	4	7	Developing and presenting a research proposal
VI	5	5	Developing theoretical/conceptual framework.

COURSE OUTLINE			
Unit	Hours		Content Existing
	Theory	Practical	
			➤ Theories: Nature, characteristics, Purpose and uses Using, testing and developing conceptual framework, models and theories.
VII	6		Sampling ➤ Population and sample ➤ Factors influencing sampling ➤ Sampling techniques ➤ Sample size ➤ Probability and sampling error ➤ Problems of sampling
VIII	20	10	Tools and methods of Data collection: ➤ Concepts of data collection ➤ Data sources, methods /techniques quantitative and qualitative. ➤ Tools for data collection – types, characteristics and their development ➤ Validity and reliability of tools ➤ Procedure for data collection
IX	5		Implementing research plan ➤ Pilot Study, ➤ Review research plan (design), ➤ Planning for data collection, ➤ Administration of tool/interventions, collection of data.
X	10	10	Analysis and interpretation of data ➤ Plan for data analysis: quantitative and qualitative ➤ Preparing data for computer analysis and presentation. ➤ Statistical analysis ➤ Interpretation of data ➤ Conclusion and generalizations ➤ Summary and discussion
XI	10		Reporting and utilizing research findings: ➤ Communication of research results; oral and written ➤ Writing research report purposes, methods and Style-Vancouver, American Psychological Association (APA), Campbell etc ➤ Writing scientific articles for publication: purposes & style
XII	3	8	Critical analysis of research reports and articles

Activities:

- Annotated bibliography of research reports and articles
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests (Term)
- Assignments
- Presentations
- Project work

PART -B: STATISTICS

Hours of Instruction

Theory 50 Hours

Practical 50 Hours

Total: 100 Hours

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics.
2. Describe the scope of statistics in health and nursing.
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Apply & interpret measures of central tendency & measures of variance.
6. Identify concepts related to probability.
7. Use parametric and non- parametric statistical methods.
8. Draw conclusions of the study and predict statistical significance of the results.
9. Describe vital health statistics and their use in health-related research.
10. Use statistical packages for data analysis.

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
I	8	4	<p>Introduction:</p> <ul style="list-style-type: none"> ➤ Definition, nature and scope of statistics ➤ Role of statistics in Nursing/health research ➤ Meaning of data, data types, scales of measurement ➤ Population and sample, parameter and statistic ➤ Organization of data–scrutiny and pre-processing ➤ Presentation of data–tables, diagrams/charts and graphs ➤ Frequency table–histogram, frequency curves ➤ Use of Excel and SPSS for data organization & presentation

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
II	4	4	Measures of central tendency: <ul style="list-style-type: none"> ➤ Concept of central tendency, measures–mean, median and mode ➤ Percentile values–quartiles, percentiles, computation ➤ Interpretation of the measures
III	5	7	Measures of variability; <ul style="list-style-type: none"> ➤ Concept of dispersion, measures–range, quartile deviation, inter quartile range, mean deviation about median, variance, standard deviation, standard error, Coefficient of variation ➤ Computation and interpretation of the different measures Boxplot, Skewness, Kurtosis and related measures ➤ Using of Excel and SPSS for computing summary statistic
IV	3	3	Probability (3+3) <ul style="list-style-type: none"> ➤ Basic concepts of probability ➤ Sampling–basic concepts, probability sampling v/s non probability sampling, simple, stratified and systematic sampling methods ➤ Sample size determination in finite population. ➤ Normal distribution–properties and application ➤ Binomial distribution, Poisson distribution
V	7	10	Measures of relationship: <ul style="list-style-type: none"> ➤ Correlation and regression scatter plot, Pearson’s Product. Moment Correlation, Spearman’s rank correlation ➤ Regression model–simple linear regression, fitting and prediction ➤ Multiple regressions discriminate canonical correlation. ➤ Principle component and factor analysis ➤ Use of Excel and SPSS
VI	5	3	Design of experiments <ul style="list-style-type: none"> ➤ Basic concepts, Completely Randomized Design (CRD), Randomized Block Design (RBD), Latin Square Design (LSD)- applications, Factorial design
VII	9	10	Significance of Statistic and Testing hypothesis <ul style="list-style-type: none"> ➤ Inferential statistics ➤ Concept of hypothesis: null and alternative hypothesis, type I and type II errors, p- value, statistical significance ➤ Parameter tests: t test, Z test ➤ F- test for testing quality of variances ➤ One-way analysis of variance (ANOVA)MANOVA, ANCOVA ➤ Nonparametric tests: sign test, median test, ➤ Wilcoxon signed rank test, Mann–Whitney test, Chi-square test

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
VIII	5	6	Use of statistical methods in psychology & education <ul style="list-style-type: none"> ➤ Scaling–Z score, Z Scaling ➤ Standard Score and T score ➤ Reliability of test scores: test retest method, parallel forms, split half method ➤ Validation of research tools, Kappa statistics
IX	4	3	Population Statistics <ul style="list-style-type: none"> ➤ Rates, Ratios and trends ➤ Measurement of fertility: Crude Birth Rate, Standardized Birth Rate, fertility, fecundity ➤ Measuring mortality: Death Rate, Age Specific Death Rate (ASDR), Infant Mortality Rate (IMR)
X	4	8	Use of Computers for data analysis <ul style="list-style-type: none"> ➤ Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Tests, assignments, and classroom statistical exercises.

CLINICAL SPECIALITY – I MEDICAL SURGICAL NURSING

Placement: First Year

Hours of Instruction

Theory: 150 Hours

Practical: 650 Hours

Total: 800 Hours

Course Description

This course is common for the students undergoing clinical speciality-II in neurosciences nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephron & urology nursing, gastroenterology nursing/ geriatric nursing.

It is designed to assist students in developing expertise and in-depth knowledge in the field of Medical Surgical Nursing. It will help students to appreciate the patient as a holistic individual and develop skill to function as a specialized Medical-Surgical Nurse. It will further enable the student to function as educator, manager and researcher in the field of Medical – Surgical Nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate the trends & issues in the field of Medical Surgical Nursing as a speciality.
2. Apply concepts & theories related to health promotion.
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical Surgical patients.
5. Apply nursing process in providing care to patients.
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies with medical- surgical patients.
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues relevant to Medical-Surgical Nursing.
10. Prepare a design for layout and management of Medical-Surgical Units.
11. Appreciate the role of alternative systems of Medicine in care of patients.
12. Incorporate evidence-based nursing practices and identify the areas of research in the field of Medical Surgical Nursing.
13. Recognize the role of Nurse practitioner as a member of the Medical-Surgical health team.
14. Teach Medical Surgical Nursing to undergraduate nursing students & in-service nurses.

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction:</p> <ul style="list-style-type: none"> ➤ Historical development of Medical- Surgical Nursing in India. ➤ Current status of health and disease burden in India. ➤ Current concept of health. ➤ Scope of Medical-Surgical Nursing practices ➤ Different medical surgical nursing care settings ➤ Trends & issues in Medical Surgical Nursing. ➤ Ethical & cultural issues in Medical Surgical Nursing. ➤ Rights of patients. ➤ National health policy, special laws & ordinances relating to older people ➤ National goals, Five-year plans. ➤ National health programs related to adult health.
II	20	<p>Health Assessment of patients</p> <ul style="list-style-type: none"> ➤ History taking. ➤ Physical examination of various systems. ➤ Nutritional assessment. ➤ Related investigations and diagnostic assessment.
III	5	<p>Care in hospital settings:</p> <ul style="list-style-type: none"> ➤ Ambulatory care. ➤ Acute and critical care. ➤ Long term care. ➤ Home health care. ➤ Characteristics, care models, practice settings, interdisciplinary team. ➤ Hospitalization- effects of hospitalization on the patient & family. ➤ Stressors & reactions related to disease process. ➤ Nursing care using nursing process approach.
IV	10	<p>Management of patients with disorders of Gastro intestinal tract</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
V	10	<p>Management of patients with disorders of nervous system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
VI	10	<p>Management of patients with disorders of respiratory system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
VII	10	<p>Management of patients with disorders of cardio vascular system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
VIII	5	<p>Management of patients with disorders of blood</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies ➤ Evidence based nursing practice ➤ Rehabilitation and follow-up
IX	10	<p>Management of patients with disorders of genito urinary system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
X	10	<p>Management of patients with disorders of endocrine system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
XI	10	<p>Management of patients with disorders of musculo-skeletal system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XII	8	<p>Management of patients with disorders of integumentary system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XIII	5	<p>Management of patients with disorders of Eye and ENT</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders-etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
XIV	7	<p>Management of patients with disorders of reproductive system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XV	7	<p>Geriatric nursing</p> <ul style="list-style-type: none"> ➤ Nursing Assessment-History and Physical assessment. ➤ Ageing; ➤ Demography; Myths and realities. ➤ Concepts and theories of ageing. ➤ Cognitive Aspects of Ageing. ➤ Normal biological ageing. ➤ Age related body systems changes. ➤ Psychosocial Aspects of Aging. ➤ Medications and elderly. ➤ Stress & coping in older adults. ➤ Common Health Problems & Nursing Management; ➤ Psychosocial and Sexual. ➤ Abuse of elderly. ➤ Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual. ➤ Role of nurse for caregivers of elderly. ➤ Role of family and formal and non-formal caregivers. ➤ Use of aids and prosthesis (hearing aids, dentures), ➤ Legal & Ethical Issues. ➤ Provisions and Programmes for elderly; privileges, Community Programs and health services; ➤ Home and institutional care. ➤ Issues, problems and trends.

COURSE OUTLINE		
Unit	Hours	Content
XVI	8	<p>Management of patients with communicable and sexually transmitted diseases:</p> <ul style="list-style-type: none"> ➤ Review of immune system. ➤ Common Disorders of immune system – HIV/AIDS. ➤ Review of infectious disease process. ➤ Communicable Diseases- etiology, Pathophysiology, Clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XVII	10	<p>Emergency, trauma and multi-system organ failure</p> <ul style="list-style-type: none"> ➤ DIC (disseminated intravascular coagulation), sepsis, MODS ➤ Trauma, burns, poisoning, bites ➤ Etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. <ul style="list-style-type: none"> • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based nursing practice. • Rehabilitation and follow-up.

PRACTICAL

Total= 660 Hours

S. No.	Dept/Unit	No. of Week
1.	General Medical Ward	4
2.	General Surgical Ward	4
3.	ICUs	4
4.	Oncology	2
5.	Ortho	2
6.	Cardio	2
7.	Emergency Department	2
8.	Neuro	2
	Total	22

Student Activities:

- Clinical presentations
- History taking
- Health assessment
- Nutritional assessment
- Health Education related to disease conditions
- Case studies
- Project work
- Field visits

CLINICAL SPECIALITY-I OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement: First Year

Hours of Instruction

Theory: 150 Hours

Practical: 650 Hours

Total: 800 Hours

Course Description: This course is designed to assist students in developing expertise and in-depth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstetric and Gynaecological Nursing.

COMPETENCIES:

On completion of the course, the students will be able to:

1. Appreciate the trends in the field of midwifery, obstetrics and gynaecological Nursing as a speciality.
2. Describe the population dynamics and indicators of maternal and Paediatric.
3. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.
4. Provide comprehensive nursing care to women during reproductive period and new-borns.
5. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynaecological nursing.
6. Identify and analyze the deviations from normal birth process and refer appropriately.
7. Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse.
8. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation.
9. Describe the role of various types of complementary and alternative therapies in obstetric and gynaecological nursing.
10. Incorporate evidence-based nursing practice and identify the areas of research in the field of obstetric and gynaecological nursing.
11. Describe the recent advancement in contraceptive technology and birth control measures
12. Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing.

Unit no	Hours	CONTENT
I	10	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical and contemporary perspectives ➤ Epidemiological aspects of maternal and neonatal health ➤ Magnitude of maternal and neonatal problems ➤ Issues of maternal and neonatal health: Age, Gender, Sexuality, psycho Socio cultural factors ➤ Preventive obstetrics ➤ National health and family welfare programme related to maternal and neonatal health: health care delivery system- National Rural health mission, Role of NGO's ➤ Theories, models and approaches applied to midwifery practice ➤ Role and scope of midwifery practice: Independent Nurse practitioners, midwifery practitioner, neonatal nurse ➤ Scope of midwifery practice in India: GOI guidelines ➤ Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders ➤ Evidence based midwifery practice <p>Research priorities in obstetric and gynecological nursing.</p>
II	15	<p>Human reproduction</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology of human reproductive system: male and female ➤ Hormonal cycles ➤ Embryology ➤ Genetics, teratology and counseling <p>Clinical implications</p>
III	25	<p>Pregnancy</p> <ul style="list-style-type: none"> ➤ Maternal adaptation: Physiological and psychosocial <ul style="list-style-type: none"> • Assessment – Maternal and fetal measures Maternal measures: History taking, examination- General, physical and obstetrical measure, identification of high-risk pregnancy • Fetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Cholinesterase (AchE), Triple Test Amniocentesis, Cordocentesis, chorionic villus sampling (CVS)), • Biophysical- (US IMAGING, Fetal movement count, Ultra Sonography, Cardiotocography, cardio tomography, Non-Stress Test (NST), Contraction

		<p>stress test (CST), amnioscopy, foetoscopy etc.</p> <ul style="list-style-type: none"> ➤ Radiological examination, Interpretation of diagnostic tests and nursing implications ➤ Nursing management of the pregnant women ➤ Minor disorders of pregnancy and management ➤ Preparation for child birth and parenthood, importance of institutional delivery, choice of birth setting, importance and mobilizing of transportation ➤ Respectful maternity care ➤ Prenatal counseling, role of nurse and crisis intervention ➤ Identification of high-risk pregnancy and referral services. ➤ Role of Nurses midwifery practitioner <ul style="list-style-type: none"> • Alternative/complementary therapies
IV	25	<p>Normal Labour and nursing management:</p> <ul style="list-style-type: none"> ➤ Essential factors of labour ➤ Stages and onset <p>First stage: Physiology of normal labour</p> <ul style="list-style-type: none"> • Use of partograph: Principles, use and critical analysis, evidence-based studies • Analgesia and anesthesia in labour • Nursing management <p>Second stage</p> <ul style="list-style-type: none"> • Physiology, intrapartum monitoring • Nursing management. • Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) <p>Third stage</p> <ul style="list-style-type: none"> • Physiology and nursing management <p>Fourth stage – Observation, critical analysis and Nursing management.</p> <ul style="list-style-type: none"> • Various child birth practice: water birth, position change etc. • Evidence based practice in relation to labour intervention <p>Role of nurse midwifery practitioner Alternative/complementary therapies</p>
V	20	<p>Normal puerperium and nursing management</p> <ul style="list-style-type: none"> ➤ Physiology of puerperium ➤ Physiology of lactation, lactation management ➤ exclusive breastfeeding, Baby friendly hospital initiative (BFHI) ➤ Assessment of postnatal women. ➤ Minor discomforts and complications of puerperium ➤ Management of mothers during puerperium:

		<ul style="list-style-type: none"> ➤ Postnatal exercises Rooming in, bonding, warm chain ➤ Evidence based studies
VI	20	<p>Normal Newborn</p> <ul style="list-style-type: none"> ➤ Physiology and characteristics of normal newborn ➤ Physical and Behavioral assessment of newborn ➤ Needs of newborn ➤ Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newborn nutrition ➤ Respectful newborn care ➤ Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU ➤ Observation and care of newborn ➤ Parenting process
VII	10	<p>Pharmacodynamics in obstetrics</p> <ul style="list-style-type: none"> ➤ Drugs used in pregnancy, labour, post-partum and newborn ➤ Calculation of drug dose, administration of drugs, and effects of drugs used ➤ Anesthesia and analgesia in obstetrics ➤ Roles and responsibilities of midwifery nurse practitioner ➤ Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW
VIII	10	<p>Family welfare services</p> <ul style="list-style-type: none"> ➤ Population dynamics ➤ Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems ➤ Recent advances in contraceptive technology ➤ Role of nurses in family welfare programmes in all settings ➤ Role of independent nurse midwifery practitioner ➤ Family life education ➤ Evidence based studies ➤ Information, Education and Communication (IEC) ➤ Management information and evaluation system (MIES) ➤ Teaching and supervision of health team members
IX	5	Infertility

		<ul style="list-style-type: none">➤ Primary and secondary causes➤ Diagnostic procedures➤ Counseling: ethical and legal aspects of assisted reproductive technology (ART)➤ Recent advancement in infertility management.➤ Adoption procedures➤ Role of nurses in infertility management.
X	5	Menopause <ul style="list-style-type: none">➤ Physiological, psychological and social aspects➤ Hormone Replacement Therapy➤ Surgical menopause➤ Counseling and guidance➤ Role of nurse practitioner
XI	5	Abortion <ul style="list-style-type: none">➤ Types, causes➤ Legislations, patient rights and professional responsibility➤ Abortion procedures➤ Complications➤ Role of midwifery nurse practitioner

PRACTICAL

Total = 660 Hours

S. No.	Dept./Unit	No. of Week
1	Antenatal Wards & OPDs	4
2	Labour Room	5
3	Postnatal Ward	2
4	Family Planning Clinics	2
5	PHC/Rural maternity settings	4
6	Gynae	2
7	Maternity OT	2
8	NICU	1
	Total	22 Weeks

Procedures observed

- Diagnostic investigations : amniocentesis, chorionic villi sampling
- Infertility management: artificial reproduction: artificial insemination, invitro fertilization, and related procedures

Procedures assisted

- Medical termination of pregnancy

Procedures performed

- Antenatal assessment-20
- Postnatal assessment-20
- Assessment during labour and use of partograph- 20
- Per vaginal examination-20
- Conduct of normal delivery-20
- Episiotomy and suturing-10
- Setting up of delivery areas
- Insertion of intra uterine devices (copper T)

Others: as per the institutional policy

CLINICAL SPECIALTY –I PAEDIATRIC NURSING

Placement: First Year

Hours of Instruction

Theory 150 Hours

Practical 650 Hours

Total: 800 Hours

Course Description:

This course is designed to assist students in developing expertise and in-depth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing

Objectives:

At the end of the course the students will be able to:

1. Appreciate the history and developments in the field of pediatrics and pediatric nursing as a specialty
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Appreciate the child as a holistic individual
4. Perform physical, developmental, and nutritional assessment of pediatric clients
5. Apply nursing process in providing nursing care to neonates & children
6. Integrate the concept of family centred pediatric nursing care with related areas such as genetic disorders, congenital malformations and long-term illness.
7. Recognize and manage emergencies in neonates
8. Describe various recent technologies and treatment modalities in the management of high-risk neonates
9. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
10. Prepare a design for layout and management of neonatal units
11. Incorporate evidence-based nursing practice and identify the areas of research in the field of pediatric/neonatal nursing
12. Recognize the role of pediatric nurse practitioner and as a member of the pediatric and neonatal health team
13. Teach pediatric nursing to undergraduate students & in-service nurses

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical development of Pediatrics and Pediatric Nursing in India; ➤ Current status of Paediatric in India; ➤ Trends and issues in Pediatrics and Pediatric Nursing, ➤ Ethical and cultural issues in pediatric care ➤ Rights of children ➤ National health policy for children, special laws and ordinances relating to children.
II	10	<p>Assessment of paediatric clients</p> <ul style="list-style-type: none"> ➤ History taking ➤ Developmental assessment ➤ Physical assessment ➤ Nutritional assessment ➤ Family assessment
III	5	<p>Hospitalized child</p> <ul style="list-style-type: none"> ➤ Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family ➤ Stressors and reactions related to developmental stages, play activities for ill hospitalized child. ➤ Nursing care of hospitalized child and family -principles and practices
IV	10	<p>Pre-natal Pediatrics</p> <ul style="list-style-type: none"> ➤ Embryological and fetal development, Prenatal factors influencing growth and development of fetus ➤ Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling, ➤ Importance of prenatal care and role of pediatric nurse.
V	10	<p>Growth and Development of children</p> <ul style="list-style-type: none"> ➤ Principles of growth and development, ➤ Concepts and theories of growth and development, ➤ Developmental tasks and special needs from infancy to adolescence,

COURSE OUTLINE		
Unit	Hours	Content
		<p>developmental milestones,</p> <ul style="list-style-type: none"> ➤ Assessment of growth and development of pediatric clients, ➤ Factors affecting growth and development.
VI	10	<p>Behavioral Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> ➤ Parent child relationship ➤ Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child ➤ Common behavioral problems and their management, ➤ Child guidance clinic.
VII	10	<p>Preventive Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> ➤ Concept, aims and scope of preventive pediatrics, ➤ Maternal health and its influence on Paediatric /antenatal aspects of preventive pediatrics, ➤ Immunization, expanded program on immunization/universal immunization program and cold chain, ➤ Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding, and breast-feeding technique. ➤ Health education, nutritional education for parents and children ➤ National Nutritional programs ➤ National Health Programme Related to Paediatric ➤ National health Goals ➤ Five Year Plan ➤ National and international organizations related to Paediatric, Role of pediatric nurse in the hospital and community.
VIII	10	<p>Developmental disturbances and implications for nursing</p> <ul style="list-style-type: none"> ➤ Adjustment reaction to school, ➤ Learning disabilities ➤ Habit disorders, speech disorders, ➤ Conduct disorders,

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia
IX	10	<p>Challenged child and implications for nursing</p> <ul style="list-style-type: none"> ➤ Physically challenged, causes, features, early detection & management ➤ Children with cerebral palsy ➤ Mentally challenged child. ➤ Training & rehabilitation of challenged children
X	40	<p>Neonatal Nursing</p> <ul style="list-style-type: none"> ➤ New born baby: Concept, Goals, assessment, principles. <ul style="list-style-type: none"> - profile and characteristics of the new born, ➤ Nursing care of the new born at birth, care of the new born and family ➤ Assessment of gestational age for IUGR babies ➤ High Risk New-born: Identification, classification and nursing management. Neonatal Resuscitation ➤ Nursing management of <ul style="list-style-type: none"> • Preterm, term neonate and growth retarded babies. • Post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumothorax, pneumomediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephalopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycaemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal haemolytic diseases • Neonatal infections: neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS ➤ Advanced neonatal procedures.

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Calculation of fluid requirements. ➤ Haematological conditions – erythroblastosis fetalis, haemorrhagic disorder in the new-born ➤ Organization of neonatal care, services (Levels), transport
XI	30	IMNCI (Integrated management of neonatal and childhood illnesses) Community Pediatrics and Pediatric Nursing: <ul style="list-style-type: none"> ○ Components ○ principles ○ IMNCI Case Management Process for neonate to 2 months. ○ IMNCI case management process for 2 months to 5 yrs.

PRACTICAL

Total = 650 Hours

S.No.	Dept/Unit	No. of Week
1	Pediatric Medicine Ward	4
2	Pediatric Surgery Ward	4
3	Labor Room/Maternity Ward	2
4	Pediatric OPD	2
5	NICU	4
6	Creche	1
7	Child Guidance Clinic	1
8	Community pediatrics	4
	Total	22 Weeks

Student Activities

- Case study/Clinical presentations: High risk new-born: Medical and surgical condition
- Growth & developmental assessment, Nutritional assessment
- Assessment as per IMNCI
- Assessment & prioritised nursing care for hospitalised child based on nursing process.
- Health education related to disease conditions
- Project work

- **Field visits:** Anganwadi, Creche/Play school, UNICEF, Institute for challenged child children and child care centre.

Procedures Observed:

- ROP screening (Retinopathy of prematurity)
- Ultrasound head

Procedures Assisted

- Advanced neonatal life support
- Umbilical catheterization – arterial and venous
- Blood transfusion- exchange transfusion full and partial
- Airway Management
 - Application of Oro Pharyngeal Airway
 - Oxygen therapy
 - CPAP (Continuous Positive Airway Pressure)

Procedures Performed

- Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, New-born examination, detection of life-threatening congenital abnormalities,
- Admission & discharge of neonates
- Feeding-management of breastfeeding, artificial feeding, expression of breast milk, OG (Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counselling
- Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermo regulation & control
- Monitoring of Neonates – clinically & with monitors, CRT (Capillary Refill Time), assessment of jaundice, ECG
- Neonatal Resuscitation
- Setting, Use & maintenance of basic equipment: Ventilator, O₂ analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow
- **Administration of Drugs:** I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/ insulin syringes, Monitoring fluid therapy, Blood administration.
- Procedures for prevention of infections: Hand washing, disinfections & sterilization, fumigation

CLINICAL SPECIALITY – I PSYCHIATRIC NURSING

Placement: First Year

Hours of Instruction

Theory: 150 hours

Practical: 650 hours

Total: 800 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function psychiatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing

Objectives:

At the end of the course the students will be able to:

1. Appreciate the trends and issues in the field of psychiatry and psychiatric nursing.
2. Explain the dynamics of personality development and human behaviour.
3. Describe the concepts of psychobiology in mental disorders and its implications for Psychiatric nursing
4. Demonstrate therapeutic communications skills in all interactions
5. Demonstrate the role of psychiatric nurse practitioner in various therapeutic modalities
6. Establish and maintain therapeutic relationship with individual and groups
7. Uses assertive techniques in personal and professional actions
8. Promotes self-esteem of clients, others and self
9. Apply the nursing process approach in caring for patients with mental disorders
10. Describe the psychopharmacological agents, their effects and nurse's role
11. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and Psychiatric team
12. Describe various types of alternative system of medicines used in psychiatric settings
13. Incorporate evidence-based nursing practice and identify the areas of research in the field of psychiatric nursing

COURSE OUTLINE		
Units	Hours	Content
I	15	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Psychiatric and Mental Illness ➤ Historical perspectives ➤ Trends, issues and magnitude ➤ Contemporary practices ➤ Psychiatric laws/Acts ➤ National Psychiatric program -National Psychiatric authority, state Psychiatric authority ➤ Human rights of mentally ill ➤ Psychiatric/ Mental Illness Continuum ➤ Classification of mental illnesses-ICD, DSM ➤ Standards of Psychiatric nursing ➤ Challenges and Scope of psychiatric nursing ➤ Multi-disciplinary team and role of nurse ➤ Current treatment modalities and role of the nurse ➤ Role of psychiatric nurse- extended and expanded
II	10	<p>Concepts of Psychobiology</p> <ul style="list-style-type: none"> ➤ The Nervous System: <ul style="list-style-type: none"> • An Anatomical Review • The Brain and limbic system • Nerve Tissue • Autonomic Nervous system • Neurotransmitters ➤ Neuroendocrinology <ul style="list-style-type: none"> • Pituitary, Thyroid Gland • Circadian Rhythms ➤ Genetics ➤ Neuro psychiatric disorders ➤ Psychoimmunology <ul style="list-style-type: none"> • Normal Immune response • Implications for psychiatric Illness ➤ Implications for Nursing

COURSE OUTLINE		
Units	Hours	Content
III	10	Theories of Personality Development and relevance to nursing practice <ul style="list-style-type: none"> ➤ Psychoanalytic Theory- Freud's ➤ Interpersonal Theory-Sullivan's ➤ Theory of Psychosocial Development-Erikson's ➤ Theory of object relations ➤ Cognitive Development Theory ➤ Theory of Moral Development ➤ A Nursing Model-Hildegard E. Peplau
IV	5	Stress and its management <ul style="list-style-type: none"> ➤ An introduction to the concepts of stress ➤ Psychological Adaptation to stress ➤ Stress as a Biological Response. ➤ Stress as an Environmental Event. ➤ Stress as Transaction between the Individual and the Environment. ➤ Stress management.
V	10	Therapeutic communication and interpersonal relationship <ul style="list-style-type: none"> ➤ Review communication process, factors affecting communication ➤ Communication with individuals and in groups ➤ Techniques of therapeutic communication-touch therapy ➤ Barrier of communication with specific reference to psychopathology ➤ Therapeutic attitudes ➤ Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self-Gaining self-awareness ➤ Therapeutic nurse-patient relationship its phases; Conditions essential to development of a therapeutic relationship ➤ Therapeutic impasse and its management
VI	10	Assertive Training <ul style="list-style-type: none"> ➤ Assertive Communication ➤ Basic Human Rights ➤ Response Patterns <ul style="list-style-type: none"> • (Nonassertive Behavior • Assertive Behavior • Aggressive Behavior • Passive-Aggressive Behavior) ➤ Behavioural Components of Assertive Behavior ➤ Techniques that Promote Assertive Behavior ➤ Thought-Stopping Techniques Method ➤ Role of The Nurse

COURSE OUTLINE		
Units	Hours	Content
VII	5	Promoting Self-Esteem <ul style="list-style-type: none"> ➤ Components of Self-Concept ➤ The Development of Self-Esteem ➤ The Manifestations of Low-Self-Esteem ➤ Boundaries ➤ Role of The Nurse
	5	Women and Psychiatry <ul style="list-style-type: none"> • Normal reaction to conception, pregnancy and puerperium • Problems related to conception, pregnancy and puerperium and its management. • Counseling – Premarital, marital and genetic
VIII	15	The nursing process in psychiatric/Psychiatric nursing <ul style="list-style-type: none"> ➤ Psychiatric assessment- History taking, mental status examination ➤ Physical and neurological examination ➤ Psychometric assessment ➤ Investigations, Diagnosis and Differential diagnosis ➤ Interpretation of investigations ➤ Nurse's role ➤ Nursing case management <ul style="list-style-type: none"> • Critical pathways of care ➤ Documentation <ul style="list-style-type: none"> • Problem-oriented recording • Focus charting • The PIE method
IX	35	Psycho social and physical therapies <ul style="list-style-type: none"> ➤ Individual therapy ➤ Behavioral Therapy- Relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy ➤ Group Therapy ➤ Family Therapy ➤ Milieu Therapy ➤ The Therapeutic Community ➤ Occupational therapy ➤ Recreational therapy ➤ Play therapy ➤ Music therapy ➤ Light therapy ➤ Color therapy ➤ Aroma therapy

COURSE OUTLINE		
Units	Hours	Content
X	5	Electroconvulsive Therapy <ul style="list-style-type: none"> ➤ Historical Perspectives ➤ Indications ➤ Contraindications ➤ Mechanisms of Action ➤ Side Effects ➤ Risks Associated with Electroconvulsive Therapy ➤ The Role of The Nurse in Electroconvulsive Therapy
XI	10	Psychopharmacology <ul style="list-style-type: none"> ➤ Historical Perspectives ➤ Role of a Nurse in Psychopharmacological Therapy <ul style="list-style-type: none"> • Antianxiety Agents • Antidepressants Agents • Mood stabilizers • Antipsychotics • Sedative-Hypnotics • Central Nervous System Stimulants ➤ Future developments
XII	15	Alternative systems of medicine in Psychiatric <ul style="list-style-type: none"> ➤ Types of Therapies <ul style="list-style-type: none"> • Herbal Medicine • Unani • Siddha • Homeopathic • Acupressure and Acupuncture • Diet and Nutrition • Chiropractic Medicine • Therapeutic Touch and Massage • Yoga • Pet Therapy

PRACTICAL

Total = 660 Hours

S. No.	Area of Posting	No. of Week
1	Acute Psychiatric Ward	4
2	Chronic Psychiatric ward	4
3	Psychiatric Emergency Unit	2
4	O.P. D	4
5	Family Psychiatric Unit	2
6	Community Psychiatric Unit	4
7	Rehabilitation / Occupational Therapy Unit/Half way home/ Day care centre	2
Total		22 Weeks

Student Activities

- History taking
- Psychiatric assessment
- Psychometric assessment
- Personality assessment
- Process recording
- Case study/Case Work/Nursing Process
- Therapies- Group Therapy
- Family Therapy
- Psychotherapy
- Milieu Therapy
- The Therapeutic Community
- Occupational therapy
- Recreational therapy
- Play therapy
- Music therapy
- Pet therapy
- Counseling
- Assisted ECT
- Assisted EEG
- Case studies
- Case presentation
- Project work
- Socio and psycho drama
- Field visits

CLINICAL SPECIALITY- I COMMUNITY HEALTH NURSING

Placement: First Year

Hours of Instructions

Theory 150 hours

Practical 650 hours

Total 800 hours

Course Description

The course is designed to assist students in developing expertise and in-depth understanding in the field of Community Health Nursing. It would help students to appreciate holistic life style of individuals, families & groups and develop skills to function as Community Health Nurse specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health nursing.

Objectives

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

1. Appreciate the history and development in the field of Community Health and Community Health Nursing.
2. Appreciate role of individuals and families in promoting health of the Community.
3. Perform physical, developmental and nutritional assessment of individuals, families and groups.
4. Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people.
5. Apply nursing process approach while providing care to individuals, families, groups and community.
6. Integrate the concepts of family centered nursing approach while providing care to the community.
7. Recognize and participate in the management of emergencies, epidemics and disasters.
8. Apply recent technologies and care modalities while delivering community health nursing care.
9. Appreciate legal and ethical issues pertaining to community health nursing care.
10. Conduct community health nursing care projects.
11. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
12. Incorporate evidence-based nursing practice and identify the areas of research in the community settings.
13. Participate effectively as a member of Community Health team.
14. Coordinate and collaborate with various agencies operating in the community by using inter-sectoral approach.
15. Teach community health nursing to undergraduates, in-service nurses and the community health workers.

16. Demonstrate leadership and managerial abilities in community health nursing practice

17.

Course outline		
Unit	Hours	Content
I	12	<p>Introduction</p> <ul style="list-style-type: none"> • Review of Health: Concepts, Determinants, issues and Measurements. • Health promotion and Levels of prevention • Alternate systems for health promotion and management of health problems • Health economics • Health Scheme • Health technology • Genetics and health • Waste disposal • Eco system • National health policy • Planning process: Five-year plans: NITI Ayog
II	30	<p>Community health Nursing</p> <p>Review of</p> <ul style="list-style-type: none"> • Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions • Historical development of Community Health and Community Health Nursing- World and India • Various health and family welfare committees • Current status, trends and challenges of Community Health Nursing • Issues in Community Health Nursing: Ethical, legal and Socio-cultural • Community health Nursing theories and models • Health status of the Community-community identification and community diagnosis • Family nursing and Family centered nursing approach • Family health nursing process <ul style="list-style-type: none"> - Family health assessment - Diagnosis - Planning - Intervention - Evaluation • Nursing care for special groups: children, adolescents, women, transgender, • Nursing care for Urban and rural population at large • Community health Nurse practitioner's/nurse midwifery Practitioners- Concept, role and responsibilities, decision making skills, professionalism • MLHP
III	5	<p>Community nutrition</p> <ul style="list-style-type: none"> • Nutrients and its need • Guideline for healthy eating

Course outline		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Nutrition of various age group (women, 0-6-month, young child over 6 months, older children, adolescent, men and old people) • Feeding sick people at home • Malnutrition • Nutrition services
IV	15	Population dynamics and control <ul style="list-style-type: none"> • Demography • Research, Census, National Family Health Survey • Transition and theories of population • National population policy • National population programmes • Population control and related programmes • Methods of family limiting and spacing
V	45	Maternal and neonatal care <ul style="list-style-type: none"> • IMNCI (Integrated Management of Neonatal and Childhood Illnesses) module • Skilled Birth Attendant (SBA) module
VI	15	Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)
VII	10	Information, education and communication <ul style="list-style-type: none"> • IEC/BCC: Principles and strategies • Communication Skills • Management information and evaluation system: Records and reports • Health information system • Information technology • Tele-medicine and tele-nursing • Journalism • Mass media • Folk media
VIII	18	Health care delivery system: Urban, rural, tribal and difficult areas <ul style="list-style-type: none"> • Health organization: National, State, District, Village • CHC, PHC, Sub Centre, - Functions, Staffing, pattern of assistance, layout, drugs, equipment and supplies, • Panchayat raj institutions • Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives • Alternative systems of medicine • Training and supervision of health workers • Health agencies: NGO's, Roles and functions

Course outline		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Inter-sectoral coordination • Public private partnership • Challenges of health care delivery system

PRACTICAL

Total = 660 Hours

S. No.	Dept./Unit	No. of Week
1	Sub-centre, PHC, CHC	12
2	District family welfare bureau	1
3	Urban centers	6
4	Field visits	3
	Total	22 Weeks

Student Activities

- Identification of community leaders and resource persons (community mapping)
- Community health survey
- Community health nursing process- individual, family and special groups and community
- Counseling
- Health education – campaign, exhibition, folk media, preparation of IEC materials
- Organising and participating in special clinics/camps and national health and welfare programmes-Organise at least one health and family welfare mela/fair (all stalls of national health and family welfare activities should be included)
- Estimation of Vital health statistics -Exercise
- Drill for disaster preparedness
- Organise at least one in-service education to ANM's/LHV/PHN/HW
- Nutrition – Exercise on nutritional assessment on dietary planning, demonstration and education for various age groups
- Filling up of Records, reports and registers maintained at SC/PHC/CHC
- Assist women in self-breast examination
- Conduct antenatal examination
- Conduct vaginal examination
- Conduct deliveries
- Post natal visits

- Perform Episiotomy and suturing
- Prepare Pap smear
- Conduct Insertion/Removal of IUD
- Blood Slide preparation
- Field visits
- Maintenance of log book for various activities

M.Sc. Nursing
SECOND YEAR

1-NURSING MANAGEMENT

Placement: Second Year

Hours of Instruction

Theory 150 Hours

Practical 150 Hours

Total: 300 Hours

Course Description

This course is designed to assist students to develop a broad understanding of principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

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

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing.
3. Discuss the public administration, health care administration vis a vis nursing administration.
4. Describe the principles of administration applied to nursing.
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach.
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care.
9. Identify and analyse legal and ethical issues in nursing administration.
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels.
12. Discuss the importance of integrating nursing practice, education, & research for improving the quality of nursing services.
13. Discuss the role of nurse manager in organizing emergency nursing and other support services.
14. Identify and analyse ethical & legal issues in nursing management.
15. Identify areas of research in nursing management.

COURSE OUTLINE		
Unit	Hours	Content
I	15	<p>Introduction to Administration and Management</p> <ul style="list-style-type: none"> ➤ Concept of Administration: Philosophy, purpose, elements, principles and scope of administration. ➤ Concept of management: Meaning, concept, purpose, significance and functions of management. ➤ Administration Vs Management ➤ Theories of administration ➤ Indian Constitution, Indian administrative system vis a vis health care delivery system: National, State and Local ➤ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ➤ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans
II	10	<p>Nursing management</p> <ul style="list-style-type: none"> ➤ Concept of nursing management ➤ Vision and mission ➤ Philosophy, aims and objective ➤ Scope of nursing management ➤ Current trends and issues in nursing administration ➤ Theories and models ➤ Application to nursing service and education
III	10	<p>Planning</p> <ul style="list-style-type: none"> ➤ Planning process: Concept, principles, institutional policies ➤ Mission, philosophy, objectives, ➤ Strategic planning ➤ Operational plans ➤ Management plans ➤ Programme evaluation and review technique (PERT), Gantt chart, ➤ Planning for change ➤ Innovations in nursing ➤ Planning new venture ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
IV	15	<p>Organisation</p> <ul style="list-style-type: none"> ➤ Concept, principles, objectives, types and theories, minimum requirements for organisation, developing an organizational structure, levels, organizational effectiveness and organizational climate, ➤ Organising nursing services and patient care: Methods of patient assignment- advantages and disadvantages, primary nursing care, ➤ Planning and Organising: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ➤ Disaster management: plan, resources, drill, etc ➤ Application to nursing service and education
V	15	<p>Human Resource for health</p> <ul style="list-style-type: none"> ➤ Staffing <ul style="list-style-type: none"> • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ➤ Recruitment: credentialing, selection, placement, promotion ➤ Retention ➤ Personnel policies ➤ Termination ➤ Staff development programme ➤ Duties and responsibilities of various category of nursing personnel ➤ Applications to nursing service and education
VI	15	<p>Directing</p> <ul style="list-style-type: none"> ➤ Elements and functions of directing ➤ Motivation: types, Motivational theories. ➤ Communication: process, types, technique, channels and barriers of communication ➤ Public relations in context of nursing. ➤ Delegation; common delegation errors ➤ Managing conflict: process, management, negotiation, consensus ➤ Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager ➤ Occupational health and safety ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
VII	10	<p>Material management</p> <ul style="list-style-type: none"> ➤ Concepts, principles and procedures ➤ Planning and procurement procedures: Specifications ➤ ABC analysis, ➤ VED (very important and essential daily use) analysis ➤ Planning equipments and supplies for nursing care: unit and hospital ➤ Inventory control ➤ Condemnation ➤ Application to nursing service and education
VIII	15	<p>Controlling</p> <ul style="list-style-type: none"> ➤ Introduction to controlling-meaning, concept, definition, purpose, scope and principles ➤ Quality assurance – Continuous Quality Improvement (CQI) <ul style="list-style-type: none"> • Standards • Models • Nursing audit ➤ Performance appraisal: methods and Tools ➤ Supervision and management: concepts, principles and types. ➤ Discipline: constructive versus destructive discipline, maintenance of discipline- service rules, self discipline, disciplinary proceedings and enquiry etc ➤ Evaluation of service: Self evaluation or peer evaluation, patient satisfaction, utilization review ➤ Application to nursing service and education
IX	15	<p>Fiscal planning</p> <ul style="list-style-type: none"> ➤ Introduction to fiscal management – meaning, concept, definition, purpose, significance, scope & principles ➤ Steps ➤ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ➤ Budget estimate, revised estimate, performance budget ➤ Audit ➤ Cost effectiveness ➤ Cost accounting ➤ Critical pathways ➤ Health care reforms ➤ Health economics ➤ Health insurance ➤ Budgeting for various units and levels ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
X	10	<p>Nursing informatics</p> <ul style="list-style-type: none"> ➤ Trends ➤ General purpose ➤ Use of computers in hospital and community ➤ Patient record system ➤ Nursing records and reports ➤ Management information and evaluation system (MIES) ➤ E- nursing, Telemedicine, Telenursing ➤ Electronic medical records
XI	10	<p>Leadership</p> <ul style="list-style-type: none"> ➤ Concepts of leadership ➤ Leadership Theories ➤ Styles of leadership ➤ Effective leader ➤ Group dynamics ➤ Power and politics ➤ lobbying ➤ Critical thinking and decision making ➤ Stress management ➤ Applications to nursing service and education
XII	10	<p>Legal and ethical issues</p> <p>Laws and ethics</p> <ul style="list-style-type: none"> ➤ Ethical committee ➤ Code of ethics and professional conduct ➤ Legal system: Types of law, tort law, and liabilities ➤ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character ➤ Patient care issues, management issues, employment issues ➤ Medico legal issues ➤ Nursing regulatory mechanisms: licensure, renewal, accreditation ➤ Patients' rights, Consumer protection act (CPA) ➤ Rights of special groups: children, women, HIV, handicap, ageing ➤ Professional responsibility and accountability ➤ Infection control ➤ Standard safety measures

PRACTICALS

1. Prepare prototype personal files for staff nurses, faculty and cumulative records
2. Preparation of budget estimate, Revised estimate and performance budget
3. Plan and conduct staff development programme
4. Preparation of Organisation Chart
5. Developing nursing standards/protocols for various units
6. Design a layout plan for speciality units /hospital, community and educational institutions
7. Preparation of job description of various categories of nursing personnel
8. Prepare a list of equipments and supplies for speciality units
9. Assess and prepare staffing requirement for hospitals, community and educational institutions
10. Plan of action for recruitment process
11. Prepare a vision and mission statement for hospital, community and educational institutions
12. Prepare a plan of action for performance appraisal
13. Identify the problems of the speciality units and develop plan of action by using problem solving approach
14. Plan a duty roster for speciality units/hospital, community and educational institutions
15. Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentations etc
16. Prepare a plan for disaster management
17. Group work
18. Field appraisal report

CLINICAL SPECIALITY – II

MEDICAL SURGICAL NURSING- CARDIO VASCULAR AND THORACIC NURSING

Placement: Second Year

Hours of Instruction

Theory: 150 hours

Practical: 950 hours

Total: 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardiovascular - thoracic medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life Support.
8. Describe the various drugs used in cardio vascular and thoracic conditions and nurse's responsibility
9. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
10. Appreciate team work & coordinate activities related to patient care.
11. Practice infection control measures.
12. Identify emergencies and complications & take appropriate measures
13. Discuss the legal and ethical issues in cardio vascular and thoracic nursing

14. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence-based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
17. Identify the sources of stress and manage burnout syndrome among health care providers.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical development, trends and issues in the field of cardiology. ➤ Cardio vascular and thoracic conditions – major health problem. ➤ Concepts, principles and nursing perspectives ➤ Ethical and legal issues ➤ Evidence based nursing and its application in cardio vascular and thoracic nursing (to be incorporated in all the units) ➤ Future challenges
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc ➤ Health promotion, disease prevention, Life style modification ➤ National health programs related to cardio vascular and thoracic conditions ➤ Alternate system of medicine ➤ Complementary therapies
III	5	<p>Review of anatomy and physiology of cardio vascular and respiratory system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. ➤ Coronary circulation ➤ Hemodynamics and electro physiology of heart. ➤ Bio-chemistry of blood in relation to cardio pulmonary function. ➤ Physiologic and pathologic responses <ul style="list-style-type: none"> • Hematopoiesis and coagulation • Fluid and electrolyte balance and imbalance • Acid- base balances and imbalances • Physiologic adaptations with aging • Sleep
IV	20	<p>Assessment and Diagnostic Measures:</p> <ul style="list-style-type: none"> ➤ History taking

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Physical assessment <ul style="list-style-type: none"> • Heart rate variability: Mechanisms, measurements, pattern, factors, impact of interventions on HRV ➤ Diagnostic tests <ul style="list-style-type: none"> • Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand. • Radiologic examination of the chest: interpretation, chest film findings. • Electro cardiography (ECG): electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination. ➤ ECG changes in: intraventricular conduction Abnormalities-Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, <ul style="list-style-type: none"> • Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques. • Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging. • Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care. • Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period. • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data. • Pulmonary function test: Bronchoscopy and graphics. • Exercise testing • Cardiac catheterization • Interpretation of diagnostic measures <ul style="list-style-type: none"> • Nurse's role in diagnostic tests ➤ Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. ➤ Interpretation and role of nurse
V	25	<p>Cardiac disorders and nursing management:</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology,

COURSE OUTLINE		
Unit	Hours	Content
		treatment modalities and nursing management of: <ul style="list-style-type: none"> • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Myocardial Infarction, Congestive cardiac failure • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block • Associated illnesses
VI	10	Altered pulmonary conditions <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> • Bronchitis • Bronchial asthma • Bronchiectasis • Pneumonias • Lung abscess, lung tumour • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease • Cor pulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension
VII	10	Vascular disorders and nursing management <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology,

COURSE OUTLINE		
Unit	Hours	Content
		<p>treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • Disorders of arteries • Disorders of the aorta • Aortic Aneurysms, • Aortic dissection • Raynaud's phenomenon • Peripheral arterial disease of the lower extremities • Venous thrombosis • Varicose veins • Chronic venous insufficiency and venous leg ulcers • Pulmonary embolism
VIII	10	<p>Cardio thoracic emergency interventions</p> <ul style="list-style-type: none"> ➤ CPR- BLS and ACLS ➤ Use of ventilator, defibrillator, pacemaker ➤ Post resuscitation care. ➤ Care of the critically ill patients ➤ Psychosocial and spiritual aspects of care ➤ Stress management; ICU psychosis ➤ Role of nurse
IX	10	<p>Nursing care of a patient with obstructive airway</p> <ul style="list-style-type: none"> ➤ Assessment ➤ Use of artificial airway ➤ Endotracheal intubation, tracheostomy and its care ➤ Complication, minimum cuff leak, securing tubes <p>Oxygen delivery systems.</p> <ul style="list-style-type: none"> ➤ Nasal Cannula ➤ Oxygen mask, Venturi mask ➤ Partial and non-rebreathing bags ➤ Bi-PAP and C-PAP masks ➤ Uses, advantages, disadvantages, nursing implications of each. <p>Mechanical Ventilation</p> <ul style="list-style-type: none"> ➤ Principles of mechanical ventilation ➤ Types of mechanical ventilation and ventilators. ➤ Modes of ventilation, advantage, disadvantage, complications. ➤ PEEP therapy, indications, physiology, and complications. Weaning off the ventilator. ➤ Nursing assessment and interventions of ventilated patient.
X	10	<p>Congenital Heart Diseases,</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Review of embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect, Eisenmenger’s complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia. • Coarctation of aorta. • Ebstein’s anomaly • Double outlet right ventricle, Single ventricle, hypoplastic left heart syndrome.
XI	10	<p>Pharmacology</p> <ul style="list-style-type: none"> ➤ Review ➤ Pharmacokinetics ➤ Analgesics/Anti inflammatory agents ➤ Antibiotics, antiseptics ➤ Drug reaction & toxicity ➤ Drugs used in cardiac emergencies ➤ Blood and blood components <ul style="list-style-type: none"> • Antithrombolytic agents • Inotropic agents • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vasodilators • ACE inhibitors. • Anticoagulants • Antiarrhythmic drugs. • Anti-hypertensive • Diuretics • Sedatives and tranquilizers. • Digitalis. • Anti-lipedemics ➤ Principles of drug administration, role and responsibilities of nurses and care of drugs
XII	20	<p>Nursing Care of Patient Undergoing Cardiothoracic Surgery</p> <ul style="list-style-type: none"> ➤ Indications, selection of patient ➤ Preoperative assessment and preparation; counseling.

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Intraoperative care: Principles of open-heart surgery, equipment, anaesthesia, cardiopulmonary by-pass. ➤ Surgical procedures for Coronary Artery Bypass Grafting (CABG), recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. ➤ Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc ➤ Immediate postoperative care: assessment, post-operative problems and interventions: Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate, ventilation/perfusion, Neurological problems, renal problems, Psychological problems. ➤ Chest physiotherapy ➤ Nursing interventions- life style modification, complementary therapy/alternative systems of medicine. ➤ Intermediate and late post operative care after CABG, valve surgery, others. ➤ Follow up care
XIII	5	<p>Cardiac rehabilitation</p> <ul style="list-style-type: none"> ➤ Process ➤ Physical evaluation ➤ Life style modification ➤ Physical conditioning for cardiovascular efficiency through exercise ➤ Counseling ➤ Follow up care
XIV	5	<p>Intensive Coronary Care Unit/Intensive Cardiothoracic Unit:</p> <ul style="list-style-type: none"> ➤ Quality assurance <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome ➤ Nurse's role in the management of I.C.C.U and ICTU. ➤ Mobile coronary care unit. ➤ Planning inservice educational programme and teaching

PRACTICALS

Total – 950 Hours

S. No.	Dept./ Unit	No. of Week
1	Cardio thoracic -Medical	4
2	Cardio thoracic -Surgical	4
3	OTs (Cardiac and thoracic)	4
4	Casualty	2
5	Diagnostic labs including Cath lab	2
6	ICCU	4
7	ICU	4
8	CCU	4
9	Paediatric Intensive	2
10	OPD	2
Total		32 Weeks

Essential Nursing Skills**Procedures Observed**

1. Echo cardiogram
2. Ultrasound
3. Monitoring JVP, CVP
4. CT SCAN
5. MRI
6. Pet SCAN
7. Angiography
8. Cardiac catheterization
9. Angioplasty
10. Various Surgeries
11. Any other

I. Procedures Assisted

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion

10. Tracheostomy tube insertion
11. Cardiac catheterisation
12. Angiogram
13. Defibrillation
14. Treadmill test
15. Echo cardiography
16. Doppler ultrasound
17. Cardiac surgery
18. Insertion of chest tube
19. CVP Monitoring
20. Measuring pulmonary artery pressure by Swan-Ganz Catheter
21. Cardiac Pacing

II. Procedures Performed

1. Preparation of assessment tool for CT client (Cardiac, thoracic and vascular).
2. ECG – Recording, Reading, Identification of abnormalities
3. Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent Through ET and Tracheostomy tube, Manual resuscitation bag
4. Mechanical ventilation
5. Spirometer
6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including– Breathing Exercises Coughing Exercises Percussion & Vibration
11. Suctioning – Oropharyngeal, nasotracheal, Endotracheal Through tracheostomy tube
12. Artificial airway cuff maintenance
13. CPR
14. Care of client on ventilator
15. Identification of different –Arrhythmias, Abnormal pulses, respirations, B.P. Variation, Heart sounds, Breath sounds
16. Pulse oximetry
17. Introduction of intracath
18. Bolus I.V. Injection
19. Life line
20. Maintenance of “Heplock”
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in thrombophlebitis
23. Identification of Homans signs
24. Buerger– Allen exercises/test

CLINICAL SPECIALITY – II **MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING**

Placement: Second Year

Hours of instruction

Theory: 150 hours

Practical: 950 hours

Total: 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of critical care nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to Critical Care Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patients
3. Describe the various drugs used in critical care and nurse's responsibility
4. Perform physical, psychosocial & spiritual assessment
5. Demonstrate advance skills/competence in managing critically ill patients including Advance Cardiac Life Support.
6. Demonstrate skill in handling various equipment/gadgets used for critical care
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Assess and manage pain.
11. Identify complications & take appropriate measures.
12. Discuss the legal and ethical issues in critical care nursing
13. Assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence-based nursing practice and identify the areas of research in the field of critical care nursing
16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

Course outline		
Unit	Hours	Content
I	5	<p>Introduction to Critical Care Nursing</p> <ul style="list-style-type: none"> ➤ Historical review- Progressive patient care (PPC) ➤ Philosophy, aims and objectives, Policies of Critical Care Unit ➤ Concepts of critical care nursing ➤ Principles of critical care nursing ➤ Scope of critical care nursing ➤ Critical care unit set up including equipment, supplies, use and care of various type of monitors & ventilators ➤ Flow sheets ➤ Future challenges for critical care nursing
II	12	<p>Concept of Holistic care applied to critical care nursing practice</p> <ul style="list-style-type: none"> ➤ Impact of critical care environment on patients: - <ul style="list-style-type: none"> - Acute confusion, Sensory input, Sleep and Periodicity - Critical care psychosis: prevention & nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, Caring for the patient's family, family teaching - Assessment of patients and risk factors <p>Psychosocial factors affecting the outcome of critical care patients, Prevention and nursing care of patients affected with psychosocial and psychophysiological problems of critical care units</p> <ul style="list-style-type: none"> ➤ Caring for patient's family and counselling of family ➤ Loss, grief & bereavement: Bereavement process, Near death experiences ➤ Meeting spiritual needs of patient/family ➤ Care of dying patients ➤ The dynamics of healing in critical care unit: -Holistic approach, Therapeutic touch, Relaxation ➤ Alternative therapies in critical care <ul style="list-style-type: none"> - Guided imagery - Music therapy - Reflexology - Reiki Therapy - Acupressure ➤ Stress and burnout syndrome among health team members
III	14	<p>Review</p> <ul style="list-style-type: none"> ➤ Pharmacokinetics ➤ Analgesics/Anti-inflammatory agents

		<ul style="list-style-type: none"> ➤ Antibiotics, antiseptics ➤ Drug reaction & toxicity ➤ Drugs used in critical care unit (inclusive of ionotropic, life-saving drugs) ➤ Drugs used in various body systems ➤ Maintenance of fluid electrolyte balance ➤ IV fluids and electrolytes ➤ Blood and blood components ➤ Principles of drug administration, role of nurses and care of drugs <p>Assessment:</p> <ul style="list-style-type: none"> - History taking and physical examination - Indications, purposes, preparation, pre and post procedure care in laboratory tests: Hematologic studies, Arterial Blood gases, Blood Chemistry, Serum concentration of selected drugs - Cardiac markers - Radiological studies - Electro-physiology Study-Heart and brain (ECG, EEG) - Echocardiography, Radioisotope studies, Electron beam computed Tomography, magnetic resonance imaging and Phonocardiography - Angiographies-heart, brain and pulmonary - Ultrasonography- Doppler studies - Exercise testing-TMT, Holter - Cardiac catheterization - Pulse oximetry - End-tidal carbon dioxide monitoring - Pulmonary function test - Ventilation perfusion scan - Endoscopies - Lung ventilation scan - Haemodynamic monitoring <p>Electro Myelogram</p>
IV	5	<p>Pain Management</p> <ul style="list-style-type: none"> ➤ Pain & Sedation in Critically ill patients ➤ Theories of pain, Types of pain, Pain assessment, Systemic responses to pain ➤ Pain management-pharmacological and non-pharmacological measures ➤ Placebo effect
V	5	<p>Infection control in intensive care unit</p> <p>Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures,</p>

		Prophylaxis for staff
VI	10	<p>Gastrointestinal System</p> <p>Causes, Pathophysiology, Clinical types, Clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: - Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders: - Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis</p> <p>Nutritional management of critically ill patients:</p> <ul style="list-style-type: none"> - Assessment of nutritional status - Fluid and electrolyte management - Administering nutritional support - Therapeutic Diets <p>Total parenteral nutrition</p>
VII	10	<p>Renal System</p> <ul style="list-style-type: none"> ➤ Causes, Pathophysiology, Clinical types, Clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: -Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma ➤ Management of: - Renal Replacement Therapy (Peritoneal Dialysis, Hemodialysis, hemofiltration) ➤ Renal Transplant
VIII	10	<p>Nervous System</p> <ul style="list-style-type: none"> ➤ Causes, Pathophysiology, Clinical types, Clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: - Common Neurological Disorders: -Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, Guillain Barre-Syndrome, Myasthenia Gravis, Encephalopathy, Head injury, Spinal Cord injury, Brain Death, Coma, Persistent vegetative state, ➤ Management Modalities: <ul style="list-style-type: none"> - Assessment of Intracranial pressure - Management of intracranial hypertension, - Craniotomy ➤ Problems associated with neurological disorders: Thermo-regulation, Unconsciousness, Herniation syndrome
IX	5	<p>Endocrine System</p> <p>Causes, Pathophysiology, Clinical types, Clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of: -Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH), Adrenal insufficiency in Critical illness</p>

<p>X</p>	<p>12</p>	<p>Management of Trauma and multi system Emergency Conditions</p> <ul style="list-style-type: none"> ➤ Trauma: Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries, Polytrauma ➤ Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock ➤ Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome ➤ Disseminated Intravascular Coagulation ➤ Drug Overdose and Poisoning, ➤ Immune system compromising conditions, Acquired Immunodeficiency Syndrome (AIDS) ➤ Superior vena caval obstruction syndrome
<p>XI</p>	<p>20</p>	<p>Cardiovascular emergencies</p> <ul style="list-style-type: none"> ➤ Principles of Nursing in caring for patients with Cardiovascular disorders ➤ Assessment: Cardiovascular system: Heart sounds, Diagnostic studies: - Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography Coronary angiography, Nuclear medicine studies ➤ Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Management: Medical, Surgical & Nursing management of: - Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, Endocarditis, Heart failure, Cardio pulmonary resuscitation BCLS/ ACLS, Defibrillation ➤ Management Modalities: Thrombolytic therapy, Pacemaker – temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra-Aortic Balloon pump monitoring, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Radiofrequency Catheter Ablation
<p>XII</p>	<p>10</p>	<p>Respiratory System</p> <ul style="list-style-type: none"> ➤ Acid-base balance & imbalance ➤ Assessment: History & Physical Examination ➤ Diagnostic Tests: Pulse Oximetry, End -Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan ➤ Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders: -Pneumonia, Status asthmaticus, interstitial lung disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome

		<p>(ARDS), Chest Trauma Haemothorax, Pneumothorax, Deep Vein Thrombosis (DVT)</p> <ul style="list-style-type: none"> ➤ Management Modalities: -Airway Management ➤ Ventilatory Management: - Invasive, non-invasive, long term mechanical ventilations ➤ Bronchial Hygiene: -Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries
XIII	7	<p>Burns</p> <ul style="list-style-type: none"> ➤ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical & Nursing management of burns ➤ Fluid and electrolyte therapy – calculation of fluids and its administration ➤ Pain management ➤ Wound care ➤ Infection control ➤ Prevention and management of burn complications ➤ Grafts and flaps ➤ Reconstructive surgery ➤ Rehabilitation
XIV	5	<p>Other system emergencies</p> <ul style="list-style-type: none"> ➤ Ophthalmic: Emergencies Eye injuries, Glaucoma, retinal detachment ➤ Ear Nose Throat: Emergencies Foreign bodies, stridor, bleeding, quincy, acute allergic conditions ➤ Psychiatric emergencies; suicide, Crisis intervention
XV	6	<p>Obstetrical Emergencies</p> <ul style="list-style-type: none"> ➤ Causes, Pathophysiology, Clinical types, clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: Antepartum hemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post-partum hemorrhage, Puerperal sepsis, Obstetrical shock, Amniotic fluid embolism, Haemolysis Elevated liver enzymes Low Platelets Syndrome (HELLP)
XVI	8	<p>Neonatal Pediatric emergencies</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Neonatal emergencies: Asphyxia Neonatorum, Pathological Jaundice

		<p>in Neonates,</p> <ul style="list-style-type: none"> • Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders: - <ul style="list-style-type: none"> • Cyanotic heart disease, trachea oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus • Pediatric emergencies <p>➤ Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</p>
XVII	3	<p>Legal and ethical issues in critical care-Nurse's role</p> <p>Ethical Issues in Critical Care: Ethics, Ethical principles, Withholding & withdrawing treatment, Ethical decision making, patient's rights, Legal responsibilities of a nurse</p> <ul style="list-style-type: none"> ➤ Brain death ➤ Organ donation & Counseling ➤ Do Not Resuscitate (DNR) ➤ Euthanasia ➤ Living will
XVIII	3	<p>Quality assurance</p> <ul style="list-style-type: none"> ➤ Standards, Protocols, Policies, Procedures ➤ Infection control; Standard safety measures ➤ Nursing audit ➤ Staffing ➤ Design of ICU/CCU

PRACTICAL

Total = 950 Hours

S.No.	Dept./Unit	No. of Week
1.	Burns ICU	2
2.	Medical ICU	8
3.	Surgical ICU	12
4.	CCU	2
5.	Emergency Department	3
6.	Dialysis Unit	1
7.	Transplant Room	2
8.	Paediatric/ NICU	2
Total		32 Weeks

ESSENTIAL CRITICAL CARE NURSING SKILLS**I. Procedures Observed**

1. CT Scan
2. MRI
3. EEG
4. Haemodialysis
5. Heart/ Neuro/GI. / Renal Surgeries

II. Procedures Assisted

1. Advanced life support system
2. Basic cardiac life support
3. Arterial line/arterial pressure monitoring/blood taking
4. Arterial blood gas
5. ECG recording
6. Blood transfusion
7. IV cannulation therapy
8. Arterial Catheterization
9. Chest tube insertion
10. Endotracheal intubations
11. Ventilation
12. Insertion of central line/CVP line
13. Connecting lines for dialysis

III. Procedure Performed

1. Airway management

- a. Application of oropharyngeal airway
 - b. Oxygen therapy
 - c. CPAP (Continuous Positive Airway pressure)
 - d. Care of tracheostomy
 - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support
 3. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
 4. Gastric lavage
 5. Assessment of critically ill patients Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life-threatening abnormalities
 6. Admission & discharge of critically ill patients
 7. Nutritional needs – gastrostomy feeds, jejunostomy feeds, TPN, formula preparation & patient education.
 8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.
 9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.
 10. Setting up dialysis machine and starting, monitoring and closing dialysis
 11. Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
 12. Collection of specimens.
 13. Setting, use & maintenance of basic equipment, ventilator, O₂ analyser, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

IV Other Procedures: As per the institutional policy

CLINICAL SPECIALITY-II MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement: Second Year

Hours of Instruction

Theory: 150 hours

Practical: 950 hours

Total: 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing.

Objectives

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care
9. Appreciate the role of alternative systems of medicine in care of cancer patients
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies
12. Counsel the patients with cancer and their families
13. Incorporate evidence-based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team
15. Collaborate with other agencies and utilize resources in caring for cancer patients.
16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

COURSE OUTLINE		
Unit	Hours.	Content
I	4	Introduction <ul style="list-style-type: none"> ➤ Epidemiology-Incidence, Prevalence – Global, National, State and Local ➤ Disease burden, concept of cancer, risk factors ➤ Historical perspectives ➤ Trends and issues ➤ Principles of cancer management ➤ Roles and responsibilities of oncology nurse
II	5	The Nature of Cancer <ul style="list-style-type: none"> ➤ Normal cell biology ➤ The Immune system ➤ Pathological and pathophysiological changes in tissues <ul style="list-style-type: none"> • Biology of the cancer cell • Clone formation, Transformation • Tumor stem lines • Structure of a solid tumor • Products produced by the tumor • Systemic effects of tumor growth
III	4	Etiology of Cancer <ul style="list-style-type: none"> ➤ Carcinogenesis, ➤ Theories of cancer causation ➤ Risk factors ➤ Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, immune system failure, rapid tissue proliferation. ➤ Hormone changes, diet, emotional factors.
IV	10	Diagnostic Evaluation <ul style="list-style-type: none"> ➤ Health assessment: History taking, physical examination, ➤ Staging and grading of tumors, ➤ TNM Classification ➤ Common diagnostic tests <ul style="list-style-type: none"> • Blood investigation: Hematological, Bio-chemical, Tumor markers, Hormonal assay • Cytology: Fine needle aspiration cytology (FNAC) • Histopathology: Biopsy • Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging • Endoscopies ➤ Nurses responsibilities in diagnostic measures

COURSE OUTLINE		
Unit	Hours.	Content
V	10	<p>Levels of prevention and care</p> <ul style="list-style-type: none"> ➤ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, ➤ Self-Examination-Oral, Breast, Testicular ➤ Secondary prevention – early diagnosis. ➤ Screening ➤ Tertiary prevention – disability limitation, ➤ Rehabilitation: Mobility, Speech, Bowel and bladder, Ostomies etc. ➤ Patient and family education, ➤ Discharge instruction, follow-up care and use of community resources.
VI	25	<p>Cancer Treatment Modalities and Nurse's Role</p> <ul style="list-style-type: none"> ➤ Surgery <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances ➤ Chemotherapy <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to Chemotherapy-Tumor variables, drug resistance,

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Safety precautions
		<ul style="list-style-type: none"> ➤ Radiation therapy <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipment: Linear accelerator, cobalt, Implants, Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology - cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy - • External radiotherapy • Internal radiotherapy - unsealed, • Sealed sources. • Effectiveness of Radiotherapy-Radio-sensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhabha Atomic Research Centre (BARC) ➤ Bone Marrow Transplantation /Stem Cell Transplantation <ul style="list-style-type: none"> • Types, indications, transplantation procedure, complications and nursing management • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues ➤ Immunotherapy (Biotherapy) <ul style="list-style-type: none"> • Concepts and principles • Classification of agents • Treatment and applications ➤ Gene Therapy <ul style="list-style-type: none"> • Current Concepts and practices ➤ Alternative and Complementary Therapies <ul style="list-style-type: none"> • Current practices
VII	10	<ul style="list-style-type: none"> ➤ Pain management: - Theories, types and <ul style="list-style-type: none"> • Nature of cancer pain

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Pathophysiology of pain • Pain threshold ➤ Assessment of pain • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient Controlled Analgesia (PCA) • Other invasive techniques of pain control • Recent developments in cancer pain ➤ Non- Pharmacological pain relief technique- • Complementary therapies (Music, Massage, Meditation, Relaxation Techniques, Biofeedback etc.) • Psychological intervention in pain control • Alternative system of medicines <p>Role of nurse</p>
VIII	5	<p>Palliative care</p> <ul style="list-style-type: none"> ➤ Definition and scope, philosophy ➤ Concept and elements of palliative care ➤ Global and Indian perspective of palliative care ➤ Quality of life issues ➤ Communication skill ➤ Nursing perspective of palliative care and its elements ➤ Home care ➤ Hospice care ➤ Role of nurse in palliative care
IX	2	<p>Infection control:</p> <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and

COURSE OUTLINE		
Unit	Hours.	Content
		<p>community-based care</p> <ul style="list-style-type: none"> Standard safety measures
X	30	<p>Nursing Care of Patients with Specific Malignant Disorders</p> <ul style="list-style-type: none"> Malignancies of G.I. System-Oral, Esophagus, Stomach, Rectal, Liver & Pancreas, care of ostomies/stoma Respiratory malignancies Genito urinary system malignancies- prostate Bladder, Renal Testicular malignancies, Gynecological Malignancies-Cervix, Uterus, Ovary Hematological Malignancies-Lymphomas, Leukemia's. Malignancies of musculoskeletal system Endocrine malignancies Skin Head and Neck -brain tumors Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)
XI	10	<p>Pediatric malignancies</p> <ul style="list-style-type: none"> Leukemia, Lymphoma, Neuro- blastoma Wilm's tumor, Soft tissue sarcoma, Retinoblastoma Nursing Management of children with Pediatric Malignancies
XII	15	<p>Nursing Management of Physiological Conditions and Symptoms of Cancer Patient</p> <ul style="list-style-type: none"> Nutrition: - effects of cancer on nutritional status and its consequences: - Anemia, Cachexia, Xerostomia, Mucositis, Dysphagia, Nausea and Vomiting, Constipation, Diarrhea, Electrolyte imbalances, Taste alterations Impaired mobility: Decubitus ulcer, Pathologic Fractures, Thrombophlebitis, Pulmonary Embolism, Contractures, Foot Drop <p>Other symptoms</p> <ul style="list-style-type: none"> Dyspepsia & Hiccup, Dyspnea Intestinal obstruction, Fungating wounds Anxiety & Depression, Insomnia Lymph edema <p>Impact of cancer on sexuality:</p> <ul style="list-style-type: none"> Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> ➤ Nursing management of cancer patients experiencing sexual dysfunction ➤ Sexual counseling
XIII	10	<p>Cancer Emergencies</p> <ul style="list-style-type: none"> ➤ Disseminated intravascular coagulation (DIC), ➤ Malignant pleural effusion ➤ Neoplastic cardiac tamponade ➤ Septic shock ➤ Spinal Cord Compression ➤ Superior venacava syndrome ➤ Metabolic emergency: hyper and hypo calcemia ➤ Tumour Lysis Syndrome ➤ Surgical emergency ➤ Urological emergency ➤ Hemorrhage ➤ Organ obstruction ➤ Brain metastasis ➤ Nurses role in managing oncologic emergencies
XIV	8	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> ➤ Psychological responses of patients with cancer ➤ Psychosocial assessment – ➤ Crisis intervention, coping mechanisms ➤ Stress management, spiritual/cultural care and needs ➤ Counseling: individual and family ➤ Maximizing quality of life of patient and family <p>Ethical, moral and legal issues-</p> <ul style="list-style-type: none"> ➤ End of life care ➤ Grief and grieving process ➤ Bereavement support ➤ Care of Nurses who care for the dying.
XV	2	<p>Layout and Design of an oncology institution/ ward, OPD, Chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc.</p> <ul style="list-style-type: none"> ➤ Practice Standards of oncology nursing

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Policies and Procedures ➤ Establishing Standing orders and Protocols <p>Quality Assurance Programme in oncology units</p> <ul style="list-style-type: none"> ➤ Nursing audit

Clinical Experience

S.No.	Dept./ Unit	No. of Week
1	Medical Oncology ward	6
2	Surgical Oncology ward	6
3	Bone marrow transplantation Unit	2
4	Operation Theatre	2
5	Radiotherapy Unit	2
6	Chemotherapy Unit	4
7	Outpatient department and pain clinic	2
8	Pediatric Oncology ward	2
9	Palliative Care ward	2
10	Community oncology	2
11	Hospice	1
12	Other field visits	1
Total		32 Weeks

Procedures Observed

1. CT Scan
2. MRI
3. PET Scan (Positron Emission Tomography)
4. Ultra sound
5. Mammography
6. Radio Nuclide Imaging
7. Bone Scan
8. Thyroid Function Test
9. Functional and Metabolic Imaging
10. Transportation of radioactive materials
11. Others

Procedures Assisted

1. IV cannulation – Open method

2. Chemotherapy
3. Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation.
4. Interstitial implantation
5. Bio-therapy and Gene therapy
6. Teletherapy – Treatment planning
7. Bone marrow aspiration and biopsy
8. Biopsy – tissue
9. FNAC – Fine Needle Aspiration Cytology and biopsy
10. Advance Cardiac life support
11. Endotracheal intubation
12. Defibrillation Ventilation
13. Tracheostomy
14. Thoracentesis
15. Paracentesis
16. Lumbar Puncture
17. Arterial Blood Gas
18. Nerve Block
19. Chest tube insertion
20. Intercostal drainage
21. CVP monitoring

Procedure Performed

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. Pap smear
8. IV cannulation
9. Care of surgical flaps
10. Care of ostomies
11. Blood transfusion and component therapy
12. Counselling
13. Practice standard safety measures
14. Care of dead body and mortuary formalities

Other procedures: As per the institutional policy

CLINICAL SPECIALITY – II MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement: Second Year

Hours of Instruction

Theory – 150 Hours

Practical- 950 Hours

Total: 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neurosciences nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to neurology and neurosurgical Nursing.
2. Review the anatomy and physiology of nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
4. Perform neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of neuroscience nursing
6. Describe the various drugs used in neurosciences and nurse's responsibility
7. Assist in various therapeutic and surgical procedures in neuroscience nursing
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence-based nursing practice and identify the areas of research in the field of neuroscience nursing.
13. Organise and conduct in-service education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Introduction to neuroscience (neurological and neurosurgical) nursing <ul style="list-style-type: none"> • History-Development in neurological and neuro surgical nursing, Service & education • Emerging trends and issues in neurology and neuro surgery and its implication to nursing. • neurological and neurosurgical problems – • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in neurological and neurosurgical nursing
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Major health problems- ➤ Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. ➤ Health promotion, disease prevention, life style modification and its implications to nursing <p>Alternate system of medicine/complementary therapies</p>
III	10	<p>Review of Anatomy and physiology</p> <ul style="list-style-type: none"> ➤ Embryology ➤ Structure and functions of Nervous system- CNS, ANS, cerebral circulation, cranial and spinal nerves and reflexes, motor and sensory functions ➤ Sensory organs
IV	15	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> ➤ Assessment <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing. • Common assessment abnormalities ➤ Diagnostic measures <ul style="list-style-type: none"> • Cerebro spinal fluid analysis • Radiological Studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography (SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology. • Electrographic studies- Electro encephalography, MEG, EMG, video EEG,

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Nerve conduction Studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials • Ultrasound Studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. <p>Interpretation of diagnostic measures Nurse's role in diagnostic tests</p>
V	5	<p>Meeting Nutritional needs of neurological patients</p> <ul style="list-style-type: none"> ➤ Basic nutritional requirements ➤ Metabolic changes following injury and starvation ➤ Nutritional assessment ➤ Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs. ➤ Special metabolic and electrolyte imbalances ➤ Chronic fatigue syndrome
VI	5	<p>Drugs used in neurological and neurosurgical disorders</p> <ul style="list-style-type: none"> ➤ Classification ➤ Indications, contraindications, actions and effects, toxic effects ➤ Role of nurse
VII	10	<p>Traumatic conditions.</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness
VIII	10	<p>Cerebro vascular disorders.</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Stroke & arterio venous thrombosis. • Haemorrhagic embolus. • Cerebro vascular accidents. • Intracranial aneurysm. • Subarchnoid Hemorrhage. • Arterio venous fistula. • Brain tumors ➤ Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.

COURSE OUTLINE		
Unit	Hours	Content
IX	10	<p>Degenerating and demyelinating disorders</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, Wilson's disease, essential tremors • Dementia. • Parkinson's disease. • Multiple sclerosis. • Alzheimer's
X	10	<p>Neuro infections</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Neuro infections</p> <ul style="list-style-type: none"> • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess
XI	10	<p>Paroxysmal disorders.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Epilepsy and seizures. • Status epilepticus. • Syncope. • Meniere's syndrome. • Cephalgia.
XII	10	Developmental disorders.

COURSE OUTLINE		
Unit	Hours	Content
		<p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Hydrocephalus. • Craniosynostosis. • Spina bifida- Meningocele, Meningomyelocele, Encephalocele • Syringomyelia • Cerebro vascular system anomalies. • Cerebral palsies. • Down's syndrome
XIII	10	<p>Neuro muscular disorders.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Polyneuritis – G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell's palsy. • Meniere's disease • Carpal tunnel syndrome • Peripheral neuropathies
XIV	5	<p>Neoplasms – surgical conditions.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Space occupying lesions –types • Common tumors of CNS,
XV	5	<p>Other disorders</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Metabolic disorders- diabetes, insipidus, metabolic encephalopathy</p> <p>➤ Sleep disorders</p> <p>➤ Auto immune disorders- multiple sclerosis, inflammatory Myopathies</p>
XVI	10	<p>Neuro emergencies</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis,</p>

COURSE OUTLINE		
Unit	Hours	Content
		Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Increased intracranial pressure • Unconscious • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents
XVII	5	Rehabilitation. <ul style="list-style-type: none"> ➤ Concept and Principles of Rehabilitation. ➤ Factors affecting quality of life and coping ➤ Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain ➤ Physiotherapy. ➤ Counseling ➤ Care giver's role Speech & Language. -Neurogenic communication disorders, Speech therapy
XVIII	5	Ethical and legal issues in neuroscience nursing <ul style="list-style-type: none"> ➤ Brain death and organ transplantation ➤ Euthanasia ➤ Negligence and malpractice ➤ Nosocomial infections
XIX	5	Quality assurance in neurological nursing practice <ul style="list-style-type: none"> ➤ Role of advance practitioner in neurological nursing ➤ Professional practice standards ➤ Quality control in neurologic nursing ➤ Nursing audit ➤ Neuro ICU <ul style="list-style-type: none"> • Philosophy, aims and objectives • Policies, staffing pattern, design and physical plan of neuro ICU • Team approach, functions • Psychosocial aspects in relation to staff and clients of neuro ICU, • In-service education

PRACTICAL

Total = 950 Hours

S. No.	AREA OF POSTING	No. of Week
1	O.P.D.	2
2	Casualty	2
3	Diagnostics	2
4	Neuro psychiatry	1
5	Neuro Medical wards	4
6	Pediatric Neuro ward	2
7	Neuro surgical wards	4
8	Head Injury ward	3
9	ICU- neuro medicine	4
10	I.C.U.- neuro surgical	4
11	Rehabilitation	2
12	Operation Theatre	2
Total		32 Weeks

Essential Neuro Nursing Skills**I. Procedures Observed**

1. CT scan
2. MRI
3. PET
4. EEG
5. EMG
6. Sleep pattern studies/Therapy
7. Radiographical studies
8. Neuro surgeries
9. Nerve conduction studies
10. Ultrasound studies
11. Any other

II. Procedures Assisted

1. Advanced Cardiac life support
2. Lumbar Puncture
3. Biopsies – muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion

7. IV cannulation – open method
8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cerebral angiography
14. Myelography
15. Neuro surgeries

III. Procedures Performed:

1. Airway management
 - a. Application of Oro Pharyngeal Airway
 - b. Care of Tracheostomy
 - c. Conduct Endotracheal Intubation
 - d. use of AMBU bag, artificial respirators
 - e. Setting of Ventilators and Care of patients on ventilators
2. Cardio Pulmonary Resuscitation -Defibrillation
3. Neurological assessment -Glasgow coma scale
4. Gastric Lavage
5. IV Cannulation
6. Administration of emergency IV Drugs, fluid
7. Care of patients with incontinence, bladder training Catheterization
8. Care of patients on traction related to the neurological conditions

9. Blood Administration.
10. Muscle strengthening exercises
11. Guidance and counseling
12. Monitoring – management and care of monitors.

IV. Other Procedures: As per the institutional policy

CLINICAL SPECIALITY – II **MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING**

Placement: Second Year

Hour of Instruction

Theory: 150 Hours

Practical: 950 Hours

Total: 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to nephro and urological nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
3. Perform physical, psychosocial & spiritual assessment
4. Assist in various diagnostic, therapeutic and surgical interventions
5. Provide comprehensive nursing care to patients with nephro and urological conditions
6. Describe the various drugs used in nephro and urological conditions and nurse's responsibility
7. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
12. Discuss the legal and ethical issues in nephro and urological nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers
14. Appreciate the role of alternative system of medicine in the care of patient
15. Incorporate evidence-based nursing practice and identify the areas of research in the field of nephro and urological nursing
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit
18. Develop standards of nephro urological nursing practice

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical development: trends and issues in the field of nephro and urological nursing. ➤ nephro and urological problems ➤ Concepts, principles and nursing perspectives ➤ Ethical and legal issues ➤ Evidence based nursing and its application in nephro and urological nursing(to be incorporated in all the units) ➤ future challenges
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Major health problems-urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders ➤ Risk factors associated with nephro and urological conditions Conditions-Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations ➤ Health promotion, disease prevention, life style modification and its implications to nursing ➤ Alternate system of medicine/complementary therapies
III	5	<p>Review of anatomy and physiology of urinary system</p> <ul style="list-style-type: none"> ➤ Embryology ➤ Structure and functions ➤ Renal circulation ➤ Physiology of urine formation ➤ Fluid and electrolyte balance ➤ Acid base balance ➤ Immunology specific to kidney
IV	20	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> ➤ History taking ➤ Physical assessment, psychosocial assessment ➤ Common assessment abnormalities-dysuria, frequency, enuresis, urgency, hesitancy, haematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, ➤ Diagnostic tests ; urine studies, blood chemistry, radiological

COURSE OUTLINE		
Unit	Hours	Content
		<p>procedures-KUB, IVP, nephrotomogram, retrograde pyelogram, renal arteriogram, renal ultrasound, CT scan, MRI, cystogram renal scan, biopsy, endoscopy-cystoscopy, urodynamics studies-cystometrogram, urinary flow study, sphincter electro myography, voiding pressure flow study, video urodynamics, Whitaker study</p> <ul style="list-style-type: none"> ➤ Interpretation of diagnostic measures ➤ Nurse's role in diagnostic tests
V	5	<p>Renal immunopathy/Immunopathology</p> <ul style="list-style-type: none"> ➤ General Concept of immunopathology ➤ Immune mechanism of glomerular vascular disease ➤ Role of mediator systems in glomerular vascular disease
VI	15	<p>Urological Disorders and Nursing Management</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of ➤ Urinary tract infections- pyelonephritis, lower urinary tract infections, ➤ Disorders for ureters, bladder and urethra ➤ Urinary tract infections- ➤ Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux, ➤ Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities ➤ Benign prostrate hypertrophy (BPH) ➤ Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters ➤ Urethral disorders- tumours, trauma, congenital anomalies of urethra,
VII	25	<p>Glomerular disorders and nursing management</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of ➤ Glomerular nephritis- chronic, acute, nephritic syndrome ➤ Acute Renal failure and chronic renal failure. ➤ Renal calculi ➤ Renal tumours-benign and malignant

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Renal trauma ➤ Renal abscess ➤ Diabetic nephropathy ➤ Vascular disorders ➤ Renal tuberculosis ➤ Polycystic ➤ Congenital disorders ➤ Hereditary renal disorders
VIII	10	<p>Management of Renal emergencies</p> <ul style="list-style-type: none"> ➤ Anuria ➤ Acute Renal failure ➤ Poisoning ➤ Trauma ➤ Urine retention ➤ Acute graft rejection ➤ Hematuria ➤ Nurse's role
IX	10	<p>Drugs used in urinary disorders</p> <ul style="list-style-type: none"> ➤ Classification ➤ Indications, contraindications, actions and effects, toxic effects ➤ Role of nurse
X	10	<p>Dialysis</p> <ul style="list-style-type: none"> ➤ Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> • Hemodialysis- vascular access sites- temporary and permanent • Peritoneal dialysis ➤ Dialysis Procedures- steps, equipments, maintenance, ➤ Role of nurse- pre dialysis, intra and post dialysis ➤ Complications- ➤ Counseling ➤ Patient education ➤ Records and reports

COURSE OUTLINE		
Unit	Hours	Content
XI	10	<p>Kidney transplantation</p> <ul style="list-style-type: none"> ➤ Nursing management of a patient with Kidney transplantation (KTP) ➤ Kidney transplantations- a historical review ➤ Immunology of graft rejections ➤ The recipient of a renal transplant ➤ Renal preservations ➤ Human Leucocytic Antigen(HLA), typing matching and crossmatching in renal transplantation ➤ Surgical techniques of renal transplantations ➤ Chronic renal transplant rejection ➤ Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication ➤ KTP in children and management of pediatric patient with KTP ➤ KTP in developing countries ➤ Results of KTP ➤ Work up of donor and recipient for renal transplant ➤ Psychological aspect of KTP and organ donations ➤ Ethics in transplants ➤ Cadaveric transplantation
XII	5	<ul style="list-style-type: none"> ➤ Rehabilitation of patient with nephrological problems ➤ Risk factors and prevention ➤ Rehabilitation of patients on dialysis and after kidney transplant ➤ Rehabilitation of patients after urinary diversions ➤ Family and patient teaching
XIII	10	<p>Pediatric urinary disorders</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of children with Renal Diseases - UTI, ureteral reflux, glomerulonephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, Familial factors in renal diseases in childhood, Haemolytic uraemic syndrome. Benign recurrent haematuria, nephropathy,

COURSE OUTLINE		
Unit	Hours	Content
		wilms' tumour
XIV	5	Critical care units- dialysis , KTP unit <ul style="list-style-type: none"> ➤ Philosophy, aims and objectives ➤ Policies, staffing pattern, design and physical plan of Dialysis and KTP units ➤ Team approach, functions ➤ Psychosocial aspects in relation to staff and clients of ICU, dialysis unit ➤ In-service education ➤ Ethical and legal issues
XV	5	<ul style="list-style-type: none"> ➤ Quality assurance in nephrological nursing practice ➤ Role of advance practitioner in nephrological nursing ➤ Professional practice standards ➤ Quality control in nephrological nursing ➤ Nursing audit

PRACTICALS

Total = 950 Hours

S. No.	Deptt./ Unit	No. of Week
1	Nephrology Ward	6
2	Pediatrics	2
3	Critical Care Unit	2
4	Urology Ward	6
5	Dialysis Unit	4
6	Kidney Transplantation Unit	2
7	URO OT	2
8	Emergency Wards	2
9	Uro Nephro OPDs	4
10	Diagnostic Labs	2
Total		32 Weeks

Procedures observed**I. Procedures Observed**

1. CT Scan
2. MRI
3. Radiographic studies
4. Urodynamics
5. Hemodialysis
6. Renal Surgeries

II. Procedures Assisted

1. Blood transfusion
2. I V cannulation therapy
3. Arterial Catheterization
4. Insertion of central line/CVP line
5. Connecting lines for dialysis
6. Peritoneal dialysis
7. Renal biopsy
8. Endoscopies- Bladder, urethra

III. Procedure Performed

1. Health assessment
2. Insertion of urethral and suprapubic catheters
3. Urine analysis
4. Catheterisation
5. Peritoneal dialysis
6. Bladder irrigation
7. Care of ostomies
8. Care of urinary drainage
9. Bladder training
10. Care of vascular access
11. Setting up dialysis machine and starting, monitoring and closing dialysis
12. Procedures for prevention of infections:
13. Hand washing, disinfection & sterilization surveillance, and Fumigation, universal precautions.
14. Collection of specimen.
15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance,
16. Nutritional needs , diet therapy & patient education.
17. Counseling

IV. Other Procedures: As per the institutional policy.

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING -ORTHOPEDIC NURSING

Placement: Second Year

Hours of Instruction

Theory : 150 Hours

Practical : 950 Hours

Total : 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in depth understanding in the field of orthopedic nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic nurse practitioner/ specialist providing quality care. It will further enable the student to function as educator, manager and researcher in the field of orthopedic nursing.

Objectives

1. Appreciate the history and developments in the field of orthopaedic nursing.
2. Identify the psycho-social needs of the patient while providing holistic care.
3. Perform physical and psychological assessment of patients with orthopedic conditions and disabilities.
4. Describe various disease conditions and their management.
5. Discuss various diagnostic tests required in orthopedic conditions.
6. Apply nursing process in providing care to patients with orthopaedic conditions and those requiring rehabilitation.
7. Recognize and manage orthopedic emergencies.
8. Describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation.
9. Integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopaedic conditions.
10. Counsel the patients and their families with orthopedic conditions.
11. Describe various orthotic and prosthetic appliances.
12. Appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation.
13. Appreciate the role of alternative system of medicine in care of patients with orthopedic conditions.
14. Incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing.
15. Recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and rehabilitation team.
16. Teach orthopedic nursing to undergraduate students and in-service nurses.
17. Prepare a design and layout of orthopedic and rehabilitative units.

COURSE CONTENT		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical perspectives-History and trends in orthopedic nursing ➤ Definition and scope of orthopedic nursing ➤ Anatomy and physiology of Musculo-skeletal system ➤ Posture, Body landmarks, Skeletal system Muscular system. Nervous system - Main nerves ➤ Healing of injury and bone injury, ➤ Repair of ligaments ➤ Systemic response to injury ➤ Ergonomics, Body mechanics, biomechanical measures ➤ Orthopedic team
II	8	<p>Assessment of Orthopedic Patient</p> <ul style="list-style-type: none"> ➤ Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing. ➤ Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies
III	10	<p>Care of patients with devices</p> <ul style="list-style-type: none"> ➤ Splints, braces, various types of plaster cast ➤ Various types of tractions, ➤ Various types of orthopedic beds and mattresses ➤ Comfort devices ➤ Implants in orthopedic ➤ Prosthetics and Orthotics
IV	15	<p>Injuries</p> <p>Trauma & Injuries</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Early management of Trauma • Fractures • Injuries of the <ul style="list-style-type: none"> - Shoulder and arm - Elbow, fore arm, wrist, hand - Hip, thigh, knee, leg, ankle, foot - Spine - Head injury - Chest injury • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation

COURSE CONTENT		
Unit	Hours	Content
V	8	Infections of Bones and Joints <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Tuberculosis • Osteomyelitis • Arthritis • Leprosy
VI	5	Bone Tumours <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors
VII	10	Deformities <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical feature, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis ➤ Congenital disorders: Congenital dislocation of hip, Dislocation of patella, knee ➤ Varus and valgus deformities ➤ Deformities of digits ➤ Congenital torticollis ➤ Meningocele, meningomyelocele, spina bifida ➤ Chromosomal disorders ➤ Computer related deformities
VIII	5	Disorders of the spine <ul style="list-style-type: none"> ➤ Intervertebral disc prolapse, Fracture of the spine ➤ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis
IX	5	Nutritional/Metabolic and Endocrine Disorders <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Rickets, • Scurvy, • Hyper vitaminosis A and D, • Osteomalacia, • Osteoporosis • Paget's disease, • gout, • Gigantism, • Dwarfism, • Acromegaly. • Therapeutic diets for various orthopedic disorders

COURSE CONTENT		
Unit	Hours	Content
X	8	<p>Neuro-Muscular Disorders:</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Poliomyelitis, Cerebral Palsy • Myasthenia gravis • Spina bifida. • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy
XI	8	<p>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders:</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis –medical surgical and nursing management of: <ul style="list-style-type: none"> • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus
XII	5	<p>Orthopedic Disorders in Children:</p> <ul style="list-style-type: none"> ➤ General and special consideration on pediatric orthopaedics ➤ Genetic disorders ➤ Congenital anomalies ➤ Growth disorders ➤ Genetic counseling ➤ Nurses role in genetic counseling
XIII	5	<p>Geriatric Problems</p> <ul style="list-style-type: none"> ➤ Geriatric population, types of disabilities, causes, treatment and Management –Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. ➤ Care at home – involvement of family and community, follow up care and rehabilitation
XIV	6	<p>Pharmacokinetics</p> <ul style="list-style-type: none"> ➤ Principles of drug administration ➤ Analgesics and anti-inflammatory agents ➤ Antibiotics, Antiseptics, ➤ Drugs used in orthopaedics and neuromuscular disorders ➤ Blood and blood components ➤ Care of drugs and nurse's role

COURSE CONTENT		
Unit	Hours	Content
XV	30	<p>Nurses Role in orthopedic conditions</p> <ul style="list-style-type: none"> ➤ Gait analysis ➤ Urodynamic studies ➤ Prevention of physical deformities ➤ Alteration of body temperature regulatory system and immune systems ➤ Immobilization – cast, splints, braces and tractions ➤ Prevention and care of problems related to immobility ➤ Altered sleep patterns ➤ Impaired communication ➤ Self care and activities of daily living ➤ Bladder and bowel rehabilitation ➤ Sensory function rehabilitation ➤ Psychological reaction related to disabilities and disorders. ➤ Coping of individual and family with disabilities and disorders ➤ Maintaining sexuality <ul style="list-style-type: none"> ➤ Spirituality – A rehabilitative prospective <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> ➤ Replacement surgeries – Hip, Knee, Shoulder ➤ Spine surgeries ➤ Grafts and flaps surgery ➤ Deformity correction. <p>Physiotherapy</p> <ul style="list-style-type: none"> ➤ Concepts, Principles, purpose, <ul style="list-style-type: none"> • Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques, • Types of gaits: Non-weight bearing, partial weight bearing, Four-point crutch, tripod, walking with sticks, calipers • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat, • Chest physiotherapy

COURSE CONTENT		
Unit	Hours	Content
XVI	8	Rehabilitation <ul style="list-style-type: none"> ➤ Principles of rehabilitation, definition, philosophy, process, ➤ Various types of therapies ➤ Special therapies and alternative therapies ➤ Rehabilitation counseling ➤ Preventive and restorative measures. ➤ Community based rehabilitation (CBR) ➤ Challenges in rehabilitation. ➤ Role of the nurse in rehabilitation, ➤ Legal and ethical issues in rehabilitation nursing ➤ Occupational therapy
XVII	5	National Policies and Programmes <ul style="list-style-type: none"> ➤ National programmes for rehabilitation of persons with disability-National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes ➤ Regional rehabilitation centres etc. ➤ Public policy in rehabilitation nursing ➤ The persons with disabilities act 1995, ➤ Mental rehabilitation and Multiple disabilities act 1992, ➤ The National Trust Rules 1999 and 2000 ➤ Rehabilitation Council of India ➤ Legal and ethical aspects in orthopedic nursing ➤ Rehabilitation health team and different categories of team members.
XVIII	4	Quality assurance <ul style="list-style-type: none"> ➤ Standards, Protocols, Policies, Procedures ➤ Nursing audit ➤ Staffing ➤ Design of orthopedic, physiotherapy and rehabilitation unit

PRACTICALS

1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
2. Application of tractions and plaster casts and removal of tractions and plaster casts and other appliances.
3. Apply Theories and Nursing Process in the management of patients with orthopedic conditions.
4. Provide various types of physical and rehabilitative therapies
5. Provide health education on related disease conditions.
6. Unit management and plan - designing

Clinical Experience

Total = 950 Hours

S. No.	Deptt./Unit	No. of Week
1	Orthopedic Ward	8
2	Orthopedic Operation theatre	4
3	Neurosurgical Ward	2
4	Orthopedic O.P.D.	4
5	Casualty/Emergency and Trauma	4
6	Rehabilitation Units	2
7	Physiotherapy Unit	4
8	Paediatric /paediatric surgery unit	2
9	Field Visit	2
	Total	32 Weeks

Procedures Observed

1. X Ray
2. Ultrasound
3. MRI
4. C T Scan/bone scan
5. Arthroscopy
6. Electrothermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy)
7. Fluroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

Procedures Assisted

1. Blood Transfusion
2. IV cannulation and therapy
3. Ventilation
4. Various types of tractions
5. Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
6. Injection – Intra articular, intra osseous.
7. Advance Life Support

Procedures Performed

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy.
5. Heat therapy
6. Hydrotherapy
7. Therapeutic exercises
8. Use of TENS (Transcutaneous electrical nerve stimulation)
9. Techniques of transportation
10. Crutch walking, walkers, wheel chair.
11. Use of devices for activities of daily living and prevention of deformities.
12. Administration of drugs: IV injection, IV cannulation, and Blood transfusion.
13. Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation.
14. Special skin/ part preparations for orthopedic surgeries.
15. Surgical dressings – Debridement.
16. Bladder and bowel training

Other Procedures: As per the institutional policy

CLINICAL SPECIALITY - II

MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement: Second Year

Hours of Instruction

Theory: 150 hrs.

Practical: 950 hrs.

Total: 1100 hrs.

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing

Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to gastro enterology nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Provide comprehensive care to patients with gastro intestinal conditions
7. Describe the various drugs used in gastrointestinal conditions and nurse's responsibility
8. Demonstrate skill in handling various equipment's/gadgets used for patients with gastrointestinal conditions
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
13. Discuss the legal and ethical issues in GE nursing
14. Identify the sources of stress and manage burnout syndrome among health care providers
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence-based nursing practice and identify the areas of research in the field of gastrointestinal nursing
17. Teach and supervise nurses and allied health workers.
18. Design a layout of Gastro enterology intensive care unit (GEICU), liver care/transplant unit

COURSE CONTENT		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical development: trends and issues in the field of gastroenterology. ➤ Gastro enterological problems ➤ Concepts, principles and nursing perspectives ➤ Ethical and legal issues ➤ Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Risk factors associated with GE conditions-Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations ➤ Health promotion, disease prevention, life style modification and its implications to nursing ➤ National health programmes related to gastro enterology ➤ Alternate system of medicine/complementary therapies
III	5	<p>Review of anatomy and physiology of gastrointestinal system</p> <ul style="list-style-type: none"> ➤ Gastrointestinal system ➤ Liver, biliary and pancreas ➤ Gerontologic considerations ➤ Embryology of GI system ➤ Immunology specific to GI system
IV	15	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> ➤ History taking ➤ Physical assessment, psychosocial assessment ➤ Diagnostic tests <ul style="list-style-type: none"> • Radiological studies: Upper GIT- barium swallow, lower GIT-Barium enema, • Ultra sound: • Computed tomography • MRI • Cholangiography: Percutaneous Transheptatic Cholangiogram (PTC) • Magnetic Resonance Cholangio Pancreatography (MRCP) • Nuclear imaging scans(scintigraphy) • Endoscopy

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangio Pancreatography (ERCP) • Endoscopic ultrasound • Peritoneoscopy (Laparoscopy) • Gastric emptying studies • Blood chemistries: Serum amylase, serum lipase • Liver biopsy • Miscellaneous tests: Gastric analysis, fecal analysis • Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin, vitamin K production, serum enzyme tests, Lipid metabolism-serum cholesterol • Interpretation of diagnostic measures • Nurse's role in diagnostic tests
V	25	<p>Gastro intestinal disorders and nursing management</p> <p>➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of</p> <ul style="list-style-type: none"> • Disorders of the mouth: Dental caries, Periodontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leucoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Idiopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Nonspecific (functional) abdominal pain • Disorders of the small intestine <ul style="list-style-type: none"> - Malabsorption syndrome – tropical sprue - Gluten – sensitive enteropathy (Coeliac disease) - Inflammatory diseases of intestines and abdomen.: appendicitis, Peritonitis, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> - Chronic inflammatory bowel disease, Ulcerative colitis, crohn's disease - Infestations and infections – Worm infestations, Typhoid, nLeptospirosis - Solitary rectal ulcer syndrome - Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional Diarrhoea - Anorectal Conditions: Hemorrhoid, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pilonidal disease, Anal condylomas, Warts
VI	15	<p>Disorder of liver, pancreas gall bladder and nursing management</p> <ul style="list-style-type: none"> ➤ Disorders of liver biliary tract : <ul style="list-style-type: none"> • Viral Hepatitis – A, B, C, D & E • Toxic hepatitis • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis • Liver abscess,; • Parasitic and other cysts of the liver ➤ Disorders of the Gall Bladder and Bile Duct: <ul style="list-style-type: none"> ➤ Cholecystitis ➤ Cholelithiasis ➤ Choledocholithiasis ➤ Disorders of the pancreas: Pancreatitis, <ul style="list-style-type: none"> • Benign tumors of islet cells ➤ Disorders of the Peritoneum <ul style="list-style-type: none"> • Infections of the peritoneum ➤ Surgical peritonitis ➤ Spontaneous bacterial peritonitis ➤ Tuberculosis peritonitis ➤ Disorders of the Diaphragm <ul style="list-style-type: none"> • Diaphragmatic hernia • Congenital hernias • Paralysis of diaphragm • Tumors of the diaphragm

COURSE CONTENT		
Unit	Hours	Content
		➤ Hiccups
VII	15	<p>Gastro intestinal emergencies and nursing interventions</p> <p>➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:</p> <ul style="list-style-type: none"> • Esophageal varices, • Ulcer perforation, • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning
VIII	15	<p>➤ Congenital Anomalies of Esophagus</p> <ul style="list-style-type: none"> • Esophageal atresia • Tracheo esophageal fistula • Esophageal stenosis • Esophageal duplications • Dysphagia - Lusoria - aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzki ring • Esophageal webs <p>➤ Congenital Anomalies of Stomach</p> <ul style="list-style-type: none"> • Gastric atresia • Micro gastia • Gastric diverticulum

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis <p>➤ Congenital Anomalies of Duodenal</p> <ul style="list-style-type: none"> • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvulus <p>➤ Developmental anomalies of the intestine:</p> <ul style="list-style-type: none"> • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia <p>➤ Hirschsprung's disease</p>
IX	15	<p>Pharmo Kinetics</p> <ul style="list-style-type: none"> ➤ Drugs used in GIT ➤ Principles of administration ➤ Roles responsibilities of nurses ➤ Drugs in Peptic ulcer disease ➤ Proton Pump inhibitors ➤ H₂ Receptor Antagonists ➤ Cytoprotective Agents: ➤ Drugs used in Diarrhoea ➤ Drugs used in constipation ➤ Drugs used in Inflammatory Bowel Disease ➤ Aminosalicylates ➤ Corticosteroids ➤ Immunomodulators ➤ chemotherapy ➤ Antibiotics ➤ Antiemetics: ➤ Anticholinergics ➤ Antihistamines ➤ Anthelmintics

COURSE CONTENT		
Unit	Hours	Content
		➤ Vitamin Supplements
X	10	Nutrition and nutritional problems related to GI system <ul style="list-style-type: none"> ➤ Nutritional assessment and nursing interventions ➤ Therapeutic diets ➤ Adverse reactions between drugs and various foods ➤ Malnutrition- etiology , clinical manifestations and management ➤ Tube feeding, parenteral nutrition, total parenteral nutrition ➤ Obesity- etiology, clinical manifestations and management ➤ Eating disorders- anorexia nervosa, bulimia nervosa ➤ Recent advances in nutrition
XI	15	Malignant disorders of gastro intestinal system <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical, other modalities and nursing management of: <ul style="list-style-type: none"> • Malignancy of oral cavity, Lip, Tongue, buccal mucosa, oropharynx, Salivary gland • Esophageal, Gastric, Carcinoma of bowel -Small bowel, Colorectal and Anal carcinoma, • Liver, biliary tract and Pancreatic carcinoma
XII	5	Administration and management of GE unit <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Infection control; Standard safety measures ➤ Quality Assurance:-Nursing audit –records /reports, Norms, policies and protocols ➤ Practice standards
XIII	5	Education and training in GE care <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program, <ul style="list-style-type: none"> • Clinical teaching programs

PRACTICALS

Total = 950 Hours

S.No.	Deptt./Unit	No. of Week
1	Diagnostic labs	2
2	Emergency and casualty	3
3	Liver transplant unit	1
4	GE Medical Ward	6
5	GE Surgical Ward	8
6	OT	2
7	ICU	4
8	Pediatric gastroenterology	2
9	Oncology	2
10	GE OPD	2
Total		32 Weeks

Procedures Assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic).
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic retrograde Cholangio Pancreatography (ERCP)
6. Liver biopsy
7. Percutaneous catheter drainage (PCD) of Pseudocyst pancreas
8. Abdominal paracentesis
9. Percutaneous aspiration of liver abscess
10. GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test

Procedures Performed

1. History and Physical assessment
2. RT intubation / extubation / aspiration/suction
3. Gastric lavage and gavage
4. Bowel wash
5. Therapeutic Diets
6. Ostomy feeding
7. Stoma care
8. Monitoring vital parameters
9. Plan of in-service education programme for nursing staff and Class-I Employees
10. Counseling

CLINICAL SPECIALITY – II OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement: Second Year

Hours of Instruction

Theory: 150 hrs

Practical: 950 hrs

Total: 1100 hrs

Course Description

This course is designed to assist the student in developing expertise and in- depth understanding in the field of Obstetric and gynaecological Nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynaecological conditions. It will further enable the students to function as midwifery nurse practitioner/ specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.

CONTENTS OUTLINE		
Unit	Hours	Content
I	25	<p>Management of problems of women during pregnancy</p> <ul style="list-style-type: none"> ➤ Risk approach of obstetrical nursing care, concept & goals. ➤ Screening of high-risk pregnancy, newer modalities of diagnosis. ➤ Nursing Management of Pregnancies at risk-due to obstetrical complication <ul style="list-style-type: none"> • Pernicious Vomiting. • Bleeding in early pregnancy, abortion, ectopic pregnancy and gestational trophoblastic diseases. • Hemorrhage during late pregnancy- Ante partum hemorrhage, Placenta praevia, abruption placenta. • Hypertensive disorders in pregnancy- Pre-eclampsia, eclampsia, Haemolysis Elevated liver enzyme, Low Platelet count (HELLP) • Iso-immune diseases. Rh and ABO incompatibility • Haematological problems in pregnancy. • Hydramnios-oligohydramnios • Prolonged pregnancy- post term, post maturity. • Multiple pregnancies. • Intra uterine infection & pain during pregnancy. • Intra Uterine Growth Retardation (IUGR), Premature Rupture of Membrane (PROM), intrauterine death (IUD)
II	20	Pregnancies at risk-due to pre-existing health problems

CONTENTS OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Metabolic conditions. ➤ Anemia and nutritional deficiencies ➤ Hepatitis ➤ Cardio-vascular disease. ➤ Thyroid diseases. ➤ Epilepsy. ➤ Essential hypertension ➤ Chronic renal failure. ➤ Tropical diseases. ➤ Psychiatric disorders ➤ Infections- Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection (RTI); STD; HIV/AIDS, Vaginal infections; Leprosy, Tuberculosis ➤ Other risk factors: Age, Adolescents, elderly; unwed mothers, sexual abuse, substance use ➤ Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst
III	20	<p>Abnormal labour, pre-term labour & obstetrical emergencies</p> <ul style="list-style-type: none"> ➤ Etiology, pathophysiology and nursing management of <ul style="list-style-type: none"> • Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour. • Abnormal lie, presentation, position, compound presentation. • Contracted pelvis-CPD; dystocia. • Obstetrical emergencies: Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord. • Augmentation of labour. Medical and surgical induction. • Version • Manual removal of placenta. • Obstetrical operation: Forceps delivery, Ventouse, Cesarean section • Destructive operations • Genital tract injuries-Third degree perineal tear, VVF, RVF ➤ Complications of third stage of labour: <ul style="list-style-type: none"> • Post partum Hemorrhage. • Retained placenta.

CONTENTS OUTLINE		
Unit	Hours	Content
IV	10	<p>Post partum complications</p> <ul style="list-style-type: none"> ➤ Nursing management of <ul style="list-style-type: none"> • Puerperal infections, puerperal sepsis, urinary complications • Puerperal venous thrombosis and pulmonary embolism • Sub involution of uterus • Breast conditions, • Thrombophlebitis • Psychological complications, post partum blues, depression, psychosis
V	25	<p>High Risk Newborn</p> <ul style="list-style-type: none"> ➤ Concept, goals, assessment, principles. ➤ Nursing management of <ul style="list-style-type: none"> • Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance abuse mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephalopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycaemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal haemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Haematological conditions erythroblastosis fetalis, haemorrhagic disorder in the newborn
VI	15	<p>HIV/AIDS</p> <ul style="list-style-type: none"> ➤ HIV positive mother and her baby ➤ Epidemiology ➤ Screening ➤ Parent to child transmission (PTCT)

CONTENTS OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Prophylaxis for mother and baby ➤ Standard safety measures ➤ Counseling ➤ Breast feeding issues ➤ National policies and guidelines ➤ Issues: Legal, ethical, Psychosocial and rehabilitation <p>Role of nurse</p>
VII	25	<p>Gynecological problems and nursing management</p> <ul style="list-style-type: none"> ➤ Gynecological assessment ➤ Gynecological procedures ➤ Etiology, pathophysiology, diagnosis and nursing management of <ul style="list-style-type: none"> • Menstrual irregularities • Diseases of genital tract • Genital tract infections • Uterine displacement • Genital prolapse • Genital injuries • Uterine malformation • Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy –vaginal and abdominal. • Sexual abuse, rape, trauma, assault
VIII	5	<p>Administration and management of obstetrical and gynaecological unit</p> <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Infection control; Standard safety measures ➤ Quality Assurance: -Obstetric auditing –records /reports, Norms, policies and protocols ➤ Practice standards for obstetrical and gynaecological unit
IX	5	<p>Education and training in obstetrical and gynaecological care</p> <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program, ➤ Clinical teaching programs.

PRACTICAL

Total = 950 Hours

S. No.	Dept./ Unit	No. of Week
1	Antenatal OPD including Infertility clinics/ Reproductive medicine, Family welfare and post-partum clinic / PTCT	6
2	Antenatal and Postnatal ward	6
3	Labour room	4
4	Neonatal Intensive Care Unit	3
5	Obstetric/Gynae Operation Theatre	3
6	Gynae Ward	4
7	CHC, PHC, SC	6
Total		32 Weeks

Essential Obstetrical and Gynaecological Skills**Procedure Observed**

- Assisted Reproductive Technology procedures
- Ultra sonography
- Specific laboratory tests.
- Amniocentesis.
- Cervical & vaginal cytology.
- Fetoscopy.
- Hysteroscopy.
- MRI.
- Surgical diathermy.
- Cryosurgery.

Procedures Assisted

- Operative delivery
- Abnormal deliveries-Forceps application, Ventouse, Breech
- Exchange blood transfusion
- Culdoscopy.
- Cystoscopy
- Tuboscopy
- Laparoscopy.
- Endometrial Biopsy

- Tubal patent test
- Chemotherapy
- Radiation therapy
- Medical Termination of Pregnancy.
- Dilatation and Curettage

Procedures Performed

- History taking.
- Physical Examination-General
- Antenatal assessment. – 20
- Pelvic examination
- Assessment of risk status.
- Assessment of Intra uterine foetal well-being. Kick chart and foetal movement chart, Doppler assessment, Non-Stress Test, Contraction stress test (Oxytocin challenge test)
- Universal precautions- Disposal of biomedical waste.
- Per Vaginal examination and interpretation (early pregnancy, labour, postpartum).
- Utilization of Partograph
- Medical & Surgical induction (Artificial rupture of membranes).
- Vacuum extraction
- Conduct of delivery.
- Prescription and administration of fluids and electrolytes through intravenous route.
- Application of outlet forceps, delivery of breach – Burns Marshall, Loveset manoeuvre
- Repair of tears and Episiotomy suturing.
- Vacuum extraction
- controlled cord traction, Manual removal of placenta, placental examination,
- Manual vacuum aspiration
- Postnatal assessment. - 20
- Management of breast engorgement
- Thrombophlebitis (white leg)
- Postnatal counseling.
- Reposition of inversion of uterus.
- Laboratory tests: Blood- Hb, Sugar, Urine-albumin, sugar
- Breast care, breast exam, and drainage breast abscess.
- Postnatal exercise.

- Assessment –New born assessment; physical and neurological, Apgar score, high-risk new-born, Monitoring neonates; Clinically and with monitors, Capillary refill time, Assessment of jaundice, danger signs
- Anthropometric measurement
- Neonatal resuscitation
- Gastric Lavage
- Care of newborn in multi-channel monitor and ventilator.
- Care of newborn in radiant warmer and incubator.
- Kangaroo mother care.
- Assisting mother with exclusive Breast-feeding
- Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition Assessment, calculation and administration of fluids and medications:
 - Oral
 - I.D.
 - I.M.
 - I.V.- Securing IV-line, infusion pump
- Administration of drug per rectum
- Capillary blood sample collection.
- Oxygen therapy.
- Phototherapy.
- Chest physiotherapy.
- counseling – Parental, bereavement, family planning, infertility etc
- Setting of operation theatre.
- Trolley and table set up for Obstetrical & Gynaecological operations.
- Pap smear.
- Vaginal smear.
- Insertion of pessaries,
- Insertion of IUD and removal.
- Teaching skills
- communication skills
- Prepare referral slips
- Pre transport stabilization
- Networking with other stake holders

CLINICAL SPECIALTY –II PEDIATRIC NURSING

Placement: Second Year

Hours of Instruction

Theory 150 hours

Practical 950 hours

Total: 1100 hours

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing.

Objectives

At the end of the course the students will be able to:

1. Apply the nursing process in the care of ill infants to pre-adolescents in hospital and community
2. Demonstrate advanced skills/competence in nursing management of children with medical and surgical problems
3. Recognize and manage emergencies in children
4. Provide nursing care to critically ill children
5. Utilize the recent technology and various treatment modalities in the management of high-risk children
6. Prepare a design for layout and describe standards for management of pediatric units/hospitals
7. Identify areas of research in the field of pediatric nursing

Unit no	Hours	CONTENT
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Current principles, practices and trends in Pediatric Nursing <p>Role of pediatric nurse in various settings -Expanded and Extended</p>
II	55	<ul style="list-style-type: none"> ➤ Pathophysiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing intervention in selected pediatric disorders: Respiratory, GI, Genito urinary tract, Skin, Common Communicable Diseases, Connective tissue disorder - Child with respiratory disorders: <ul style="list-style-type: none"> - Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. - Lower respiratory tract: Bronchiolitis, Bronchopneumonia, Asthma, cystic fibrosis - Child with gastro-intestinal disorders: <ul style="list-style-type: none"> - Diarrheal diseases, gastro-esophageal reflux. - Hepatic disorders: Hepatitis, Indian childhood cirrhosis, Hepatic encephalopathy, liver transplantation. - Pancreatitis - Malabsorption syndrome, Malnutrition <p>Surgical condition of Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery</p> <ul style="list-style-type: none"> - Tracheoesophageal fistula/atresia, Hirschsprungs' disease/ megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia - Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, haemolytic-uremic syndrome, renal tubular acidosis, renal failure, kidney transplantation - Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder, Obstructive uropathy, Hydro nephropathy - Child with skin disorders: Impetigo, Scabies, Dermatitis - Common Communicable diseases: Chikungunya's, Zika virus, swine flu, SARS, MERS, Ebola, COVID <p>Child with connective tissue disorder- Juvenile Idiopathic Arthritis, SLE, HSP (Heincho's Scholineparpura</p>

III	55	<p>Assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric problems/ Disorders: CVS, Neuro, Endocrine, Hemato, oncological disorder, Eye, ENT</p> <p>-Child with cardio-vascular disorders:</p> <ul style="list-style-type: none"> - Acquired: Rheumatic fever, Rheumatic heart disease, Kawasaki disease, Preventive cardiology in young - Congenital: Cyanotic and acyanotic - Myelomeningocele, hydrocephalus, brain tumor <ul style="list-style-type: none"> - Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors - Child with blood disorders: Anaemias, thalassemia, haemophilia, polycythaemia, thrombocytopenia, and disseminated intravascular coagulation, Sickle cell disease, Stem cell transplantation - Common Eye and ENT disorder: Congenital otitis media malformation - Anomalies of the skeletal system: Talipes, CDH, fracture, Osteogenesis imperfecta, Osteomyelitis - Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma - Head injury, abdominal injury, poisoning, foreign body - obstruction, burns& Bites, Stings - Child with oncological disorders: Solid tumours of childhood, Nephroblastoma, Neuroblastoma, Hodgkin's/Non-Hodgkin's Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypothyroidism, phenylketonuria, galactosemia, Congenital Adrenal hyperplasia - Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome, Reyes syndrome <ul style="list-style-type: none"> - Anomalies of the nervous system: Spina bifida, Meningocele, - Lymphoma, Hepatoblastoma, Rhabdomyosarcoma - Management of stomas, catheters and tubes (Indication, types, nursing care) - Management of wounds and drainages
-----	----	---

IV	10	<p>Intensive care for paediatric clients</p> <ul style="list-style-type: none"> ➤ Resuscitation, stabilization & monitoring of pediatric patients ➤ Anatomical & physiological basis of critical illness in infancy and childhood ➤ Care of child requiring long-term ventilation ➤ Nutritional needs of critically ill child ➤ Legal and ethical issues in pediatric intensive care ➤ Intensive care procedures, equipment and techniques <p>Documentation</p> <p>ICU flow chart</p>
V	5	<p>Crisis and nursing intervention</p> <ul style="list-style-type: none"> ➤ The hospitalized child, ➤ Terminal illness & death during childhood <p>Nursing intervention-counseling</p>
VI	5	<p>Drugs used in Pediatrics</p> <ul style="list-style-type: none"> ➤ Criteria for dose calculation ➤ Administration of drugs, oxygen and blood ➤ Drug interactions <p>Adverse effects and their management</p>
VII	10	<p>Administration and management of pediatric care unit</p> <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Norms, policies and protocols ➤ Practice standards for pediatric care unit <p>Documentation</p>
VIII	5	<p>Education and training in Pediatric care</p> <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program, <p>Clinical teaching programs</p>

PRACTICAL

Total = 950 Hours

Field visits:

S. No.	Dept./ Unit	No. of Week
1	Pediatric medicine ICU	4
2	Pediatric surgical ICU	4
3	NICU	4
4	Pediatric OT	2
5	Pediatric medicine ward	6
6	Pediatric surgery ward	6
7	Emergency/Casualty	4
8	Field visits*	2
Total		32

CLINICAL SPECIALITY - II PSYCHIATRIC NURSING

Placement: Second Year

Hours of Instruction

Theory 150 hrs

Practical 950 hrs

Total: 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in- depth understanding in the field of Psychiatric Nursing. It will help students to develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing

Objectives

At the end of the course the students will be able to:

1. Apply the nursing process in the care of patients with mental disorders in hospital and community.
2. Demonstrate advanced skills/competence in nursing management of patients with mental disorders.
3. Identify and care for special groups like children, adolescents, women, elderly, abused and neglected, people living with HIV/AIDS.
4. Identify and manage psychiatric emergencies.
5. Provide nursing care to critically ill patients with mental disorders.
6. Utilize the recent technology and various treatment modalities in the management of patients with mental disorders
7. Demonstrate skills in carrying out crisis intervention.
8. Appreciate the legal and ethical issues pertaining to psychiatric nursing.
9. Identify areas of research in the field of psychiatric nursing.
10. Prepare a design for layout and describe standards for management of Psychiatric units/emergency units/hospitals
11. Teach Psychiatric nursing to undergraduate students& in-service nurses.

COURSE CONTENT		
Unit	Hours	Content
I	2	Principles and practice of Psychiatric Nursing <ul style="list-style-type: none"> ➤ Review ➤ Preventive psychiatry and role of psychiatric and Psychiatric nurse ➤ Emergency psychiatry, related services
II	10	Crisis Intervention <ul style="list-style-type: none"> ➤ Crisis, Definition ➤ Phases in The Development of a Crisis ➤ Types of Crisis; Dispositional, Anticipated Life Transitions Traumatic Stress, Maturational/Development, Reflecting Psychopathology ➤ Psychiatric Emergencies and their management ➤ Grief and grief reaction ➤ Crisis Intervention; Phases ➤ Post-traumatic stress disorder (PTSD) ➤ Role of the Nurse
III	4	Anger/ Aggression Management <ul style="list-style-type: none"> ➤ Anger and Aggression, Types, Predisposing Factors ➤ Management ➤ Role of The Nurse
IV	5	The Suicidal Client <ul style="list-style-type: none"> ➤ Epidemiological Factors ➤ Risk Factors <ul style="list-style-type: none"> • Predisposing Factors: Theories of Suicide-Psychological, Sociological, Biological ➤ Nursing Management
V	5	Disorders of Infancy, Childhood, and Adolescence <ul style="list-style-type: none"> ➤ Mentally Challenged ➤ Autistic Disorders ➤ Attention-Deficit/Hyperactivity Disorder ➤ Conduct Disorders, behavioural disorders ➤ Oppositional Defiant Disorder ➤ Tourette's Disorders ➤ Separation Anxiety Disorder

COURSE CONTENT		
Unit	Hours	Content
		➤ Psychopharmacological Intervention and Nursing Management
VI	5	Delirium, Dementia, and Amnestic Disorders <ul style="list-style-type: none"> ➤ Delirium ➤ Dementia ➤ Amnesia ➤ Psychopharmacological Intervention and Nursing Management
VII	10	Substance-Related Disorders <ul style="list-style-type: none"> ➤ Substance-Use Disorders ➤ Substance-Induced Disorders ➤ Classes of Psychoactive Substances ➤ Predisposing Factors ➤ The Dynamics of Substance-Related Disorders ➤ The Impaired Nurse ➤ Code pendency ➤ Treatment Modalities for Substance-Related Disorders and Nursing Management
VIII	10	Schizophrenia and Other Psychotic Disorders (Check ICD10) <ul style="list-style-type: none"> ➤ Nature of the Disorder ➤ Predisposing Factors ➤ Schizophrenia -Types <ul style="list-style-type: none"> • Disorganized Schizophrenia • Catatonic Schizophrenia • Paranoid Schizophrenia • Undifferentiated Schizophrenia • Residual Schizophrenia ➤ Other Psychotic disorders <ul style="list-style-type: none"> • Schizotypal disorder • Schizoaffective Disorder • Acute transient psychotic disorder • Delusional disorder • Psychotic Disorder Due to a General Medical Condition

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Substance-Induced Psychotic Disorder ➤ Treatment and Nursing Management
IX	8	<p>Mood Disorders</p> <ul style="list-style-type: none"> ➤ Historical Perspective ➤ Epidemiology ➤ The Grief Response ➤ Maladaptive Responses to Loss ➤ Types of Mood Disorders ➤ Depressive disorders ➤ Bipolar disorders ➤ Treatment and Nursing Management
X	8	<p>Anxiety Disorders</p> <ul style="list-style-type: none"> ➤ Historical Aspects ➤ Epidemiological Statistics ➤ How Much is too Much? ➤ Types <ul style="list-style-type: none"> • Panic Disorder • Generalized Anxiety Disorder • Phobias • Obsessive-Compulsive Disorder • Posttraumatic Stress Disorder • Anxiety Disorder Due to a General Medical Condition • Substance-Induced Anxiety Disorder ➤ Treatment Modalities ➤ Psychopharmacology & Nursing Management
XI	5	<p>Somatoform and Sleep Disorders</p> <ul style="list-style-type: none"> ➤ Somatoform Disorders ➤ Historical Aspects <ul style="list-style-type: none"> • Epidemiological Statistics • Pain Disorder • Hypochondriasis • Conversion Disorder • Body Dysmorphic Disorder ➤ Sleep Disorder ➤ Treatment Modalities and Nursing Management
XII	4	<p>Dissociative Disorders and Management</p> <ul style="list-style-type: none"> ➤ Historical Aspects ➤ Epidemiological Statistics

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Application of the Nursing Management ➤ Treatment Modalities and Nursing Management
XIII	4	Sexual and Gender Identity Disorders <ul style="list-style-type: none"> ➤ Development of Human Sexuality ➤ Sexual Disorders ➤ Variation in Sexual Orientation ➤ Nursing Management
XIV	4	Eating Disorders <ul style="list-style-type: none"> ➤ Epidemiological Factors ➤ Predisposing Factors: Anorexia Nervosa and Bulimia Nervosa, Obesity ➤ Psychopharmacology ➤ Treatment & Nursing Management
XV	4	Adjustment and Impulse Control Disorders <ul style="list-style-type: none"> ➤ Historical and Epidemiological Factors <ul style="list-style-type: none"> • Adjustment Disorders • Impulse Control Disorders ➤ Treatment & Nursing Management
XVI	4	Medical Conditions due to Psychological Factors <ul style="list-style-type: none"> ➤ Asthma ➤ Cancer ➤ Coronary Heart Disease ➤ Peptic Ulcer ➤ Essential Hypertension ➤ Migraine Headache ➤ Rheumatoid Arthritis ➤ Ulcerative Colitis ➤ Treatment & Nursing Management
XVII	8	Personality Disorders <ul style="list-style-type: none"> ➤ Historical perspectives ➤ Types of Personality Disorders <ul style="list-style-type: none"> • Paranoid Personality Disorder • Schizoid Personality Disorder • Antisocial Personality Disorder • Borderline Personality Disorder • Histrionic Personality Disorder • Narcissistic Personality Disorder • Avoidance Personality Disorder • Dependent Personality Disorder • Obsessive-Compulsive Personality Disorder • Passive-Aggressive Personality Disorders ➤ Identification, diagnostic, symptoms

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Psychopharmacology ➤ Treatment & Nursing Management
XVIII	8	<p>The Aging Individual</p> <ul style="list-style-type: none"> ➤ Epidemiological Statistics ➤ Biological Theories ➤ Biological Aspects of Aging ➤ Psychological Aspects of Aging ➤ Memory Functioning ➤ Socio-cultural aspects of aging ➤ Sexual aspects of aging ➤ Special Concerns of the Elderly Population ➤ Psychiatric problems among elderly population ➤ Treatment & Nursing Management
XIX	5	<p>The person living with HIV Disease</p> <ul style="list-style-type: none"> ➤ Psychological problems of individual HIV/AIDS ➤ Counseling ➤ Treatment & Nursing Management
XX	5	<p>Problems Related to Abuse or Neglect</p> <ul style="list-style-type: none"> ➤ Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged ➤ Predisposing Factors ➤ Treatment & Nursing management- Counseling
XXI	7	<p>Community Psychiatric Nursing</p> <ul style="list-style-type: none"> ➤ National Mental Health Program- Community mental health program ➤ The Changing Focus of care ➤ The Public Health Model ➤ The Role of the Nurse ➤ Case Management ➤ The community as Client <ul style="list-style-type: none"> • Primary Prevention • Populations at Risk • Secondary prevention • Tertiary Prevention

COURSE CONTENT		
Unit	Hours	Content
		➤ Community based rehabilitation
XXII	5	Ethical and Legal Issues in Psychiatric/Mental Health Nursing <ul style="list-style-type: none"> ➤ Ethical Considerations ➤ Legal Consideration <ul style="list-style-type: none"> • Nurse Practice Acts • Types of Law • Classification within Statutory and Common Law • Legal Issues in Psychiatric/Psychiatric Nursing • Nursing Liability
XXIII	5	Psychosocial rehabilitation <ul style="list-style-type: none"> ➤ Principles of rehabilitation ➤ Disability assessment ➤ Day care centres ➤ Half way homes ➤ Reintegration into the community ➤ Training and support to care givers ➤ Sheltered workshops ➤ Correctional homes
XXIV	5	Counseling <ul style="list-style-type: none"> ➤ Liaison psychiatric nursing ➤ Terminal Illnesses-Counseling ➤ Postpartum psychosis-treatment, care and counseling ➤ Death dying- Counseling ➤ Treatment, care and counseling – <ul style="list-style-type: none"> • Unwed mothers • HIV and AIDS
XXV	5	Administration and management of psychiatric units including emergency units <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Norms, policies and protocols ➤ Quality assurance ➤ Practice standards for psychiatric nursing ➤ Documentation
XXVI	5	Education and training in psychiatric care <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program,

COURSE CONTENT		
Unit	Hours	Content
		➤ Clinical teaching programs.

PRACTICALS

Total = 950 Hours

S. No.	Area of Posting	No. of Week
1	Acute Psychiatric Ward	4
2	Chronic Psychiatric Ward	4
3	De-addiction Unit	4
4	Psychiatric Emergency Unit	4
5	O.P.D (Neuro and psychiatric)	3
6	Child Psychiatric Unit and child guidance clinic	2
7	Post-natal ward	1
8	Family Psychiatric Unit	2
9	Field visits	2
10	Rehabilitation	2
11	Community Psychiatric Unit	4
Total		32 Weeks

Essential Psychiatric Nursing Skills

Procedures Observed

1. Psychometric tests
2. Personality tests
3. Family therapy
4. Behavioural therapy.
5. Occupational therapy

Assisted Procedures

1. CT
2. MRI

Procedures Performed

1. Mental status examination

2. Participating in various therapies –ECT
3. Administration of Oral, IM, IV psychotropic drugs
4. Interviewing skills
5. Counseling skills
6. Communication skills
7. Psychoeducation
8. Interpersonal relationship skills
9. Community Survey for identifying Psychiatric problems
10. Rehabilitation therapy
11. Health education and life skills training.
12. Supportive psychotherapeutic skills
13. Group therapy
14. Milieu therapy
15. Social/Recreational therapy.
16. Occupational therapy
17. Psychodrama
18. Motivational Interviewing

CLINICAL SPECIALITY – II COMMUNITY HEALTH NURSING

Placement: Second Year

Hours of Instruction

Theory- 150 hours

Practical- 950 hours

Total- 1100 hrs

Course Description

This course is designed to assist students in developing expertise and in depth understanding in the field of community health nursing. It will help students to develop advanced skill for nursing intervention in various aspects of community health care setting. It will enable the student to function as community health nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of community health nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues related to community health Nursing-reproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and Psychiatric.
2. Apply epidemiological concepts and principles in community health nursing practice
3. Perform community health assessment and plan health programmes
4. Describe the various components of Reproductive and Paediatric programme.
5. Demonstrate leadership abilities in organizing community health nursing services by using inter-sectoral approach.
6. Describe the role and responsibilities of community health nurse in various national health and family welfare programmes
7. Participate in the implementation of various national health and family welfare programme
8. Demonstrate competencies in providing family centered nursing care independently
9. Participate/Conduct research for new insights and innovative solutions to health problems
10. Teach and supervise nurses and allied health workers.
11. Design a layout of sub-center/Primary health center/Community health centre and develop standards for community health nursing practice.

Content Outlines		
Unit	Hours	Content
I	20	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Introduction <ul style="list-style-type: none"> • Concept, scope, definition, trends, History and development of modern Epidemiology • Contribution of epidemiology • Implications ➤ Epidemiological methods ➤ Measurement of health and disease: ➤ Epidemiological approaches ➤ Study of disease causatives ➤ Epidemiology of <ul style="list-style-type: none"> • Communicable diseases • Non-communicable diseases ➤ Emerging and re-emerging diseases Epidemics ➤ Epidemiology study and reports ➤ Role of Community health nurse
II	40	<p>National Health and Family Welfare Programmes</p> <ul style="list-style-type: none"> ➤ Objectives, Organisation/manpower/resources, ➤ Activities, Goals, inter-sectoral approach, ➤ implementation, purpose, role and responsibilities of community health nurse: <ul style="list-style-type: none"> • National ARI programme • National Vector Borne Disease Control Programme (NVBDCP) • National Filaria Control Programme • National Leprosy Eradication Programme • Revised national TB Control Programme • National Programme for Control of Blindness • National mental health programme • National AIDS Control Programme • RCH I and II, RMNCH+A • National programme for prevention and control of cancer, Diabetes, Cardiovascular diseases and stroke. • NHM: NUHM, NRHM

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> • National Programme for health care of elderly. • Integrated Disease Surveillance Programme • National Guinea worm eradication programme • Expanded programme on immunization • National water supply and sanitation programme • Minimum need programme • Yaws Eradication Programme • Minimum needs programme • 20-point programme • National nutritional programme, ICDS program, National Iodine Deficiency Disorders Control Programme • Millennium development goals • Community development programme
III	15	<p>School Health</p> <ul style="list-style-type: none"> ➤ Introduction: definition, concepts, objectives ➤ Health assessment, Screening, identification, referral and follow up, ➤ Safe environment ➤ Services, programmes and plans- first aid, treatment of minor ailments ➤ Inter-sectoral coordination ➤ Adolescent health ➤ Disaster, disaster preparedness, and management ➤ Guidance and counseling ➤ School health records - maintenance and its importance ➤ Roles and responsibilities of community health nurse
IV	15	<p>International health</p> <ul style="list-style-type: none"> ➤ Global burden of disease ➤ Global health rules to halt disease spread ➤ Global health priorities and programmes ➤ International quarantine ➤ Health tourism ➤ International cooperation and assistance

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ International travel and trade ➤ Health and food legislation, laws, adulteration of food ➤ Disaster management ➤ Migration ➤ International health agencies –World Health organizations, World health assembly, UNICEF, UNFPA, SIDA, US AID, DANIDA, DFID. AusAIDetc. ➤ International health issues and problems ➤ International nursing practice standards ➤ International health vis-a vis national health ➤ International health days and their significance
V	15	<p>Education and administration</p> <ul style="list-style-type: none"> ➤ Quality assurance ➤ Standards, Protocols, Policies, Procedures ➤ Infection control; Standard safety measures ➤ Supervision and Monitoring ➤ Nursing Audit ➤ Performance appraisal ➤ Budgeting ➤ Material management ➤ Role and responsibilities of different categories of personnel in community health ➤ Referral chain- community outreach services ➤ Transportation ➤ Public relations ➤ Planning in-service educational programme and Teaching ➤ Training of various categories of health workers-preparation of manuals
VI	10	<p>Geriatric</p> <ul style="list-style-type: none"> ➤ Concept, trends, problems and issues ➤ Aging process, and changes ➤ Theories of ageing ➤ Health problems and needs ➤ Psycho-physiological stressors and disorders ➤ Myths and facts of aging ➤ Health assessment

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Home for aged-various agencies ➤ Rehabilitation of elderly ➤ Care of elderly ➤ Elderly abuse ➤ Training and supervision of care givers ➤ Government welfare measures Programmes for elderly-Role of NGOs ➤ Roles and responsibilities of Geriatric nurse in the community
VII	10	<p>Rehabilitation</p> <ul style="list-style-type: none"> ➤ Introduction: Concepts, principles, trends, issues, ➤ Rehabilitation team ➤ Models, Methods ➤ Community based rehabilitation ➤ Ethical issues ➤ Rehabilitation Council of India ➤ Disability and rehabilitation- Use of various prosthetic devices ➤ Psychosocial rehabilitation ➤ Rehabilitation of chronic diseases ➤ Restorative rehabilitation ➤ Vocational rehabilitation ➤ Role of voluntary organizations ➤ Guidance and counseling ➤ Welfare measures ➤ Role and responsibilities of community health nurse
VIII	10	<p>Community Psychiatric</p> <ul style="list-style-type: none"> ➤ Magnitude, trends and issues ➤ National Psychiatric Program- Community mental health program ➤ The Changing Focus of care ➤ The Public Health Model ➤ Case Management- Collaborative care ➤ Crisis intervention ➤ Welfare agencies ➤ Population at Risk ➤ The community as Client ➤ Primary Prevention

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Secondary prevention ➤ Tertiary Prevention ➤ Community based rehabilitation ➤ Human rights of mentally ill ➤ Substance use ➤ Mentally challenged groups ➤ Role of community health nurse
IX	15	<p>Occupational health</p> <ul style="list-style-type: none"> ➤ Introduction: Trends, issues, Definition, Aims, Objectives, Workplace safety ➤ Ergonomics and Ergonomic solutions ➤ Occupational environment- Physical, social, Decision making, Critical thinking ➤ Occupational hazards for different categories of people-physical, chemical, biological, mechanical, Accidents, ➤ Occupational diseases and disorders ➤ Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation ➤ Women and occupational health ➤ Occupational education and counseling ➤ Violence at workplace ➤ Child labour ➤ Disaster preparedness and management ➤ Legal issues: Legislation, Labour unions, ILO and WHO recommendations, Factories act, ESI act ➤ Role of Community health nurse, Occupational health Team

PRACTICALS

Total = 950 Hours

S. No.	Dept./Unit	No. of Week
1	Urban and Rural community	17
2	School Health	3
3	International health	2
4	Administration (SC/PHC/CHC)	2
5	Occupational health	2
6	Community Psychiatric	2
7	Home for aged and Hospice	2
8	Rehabilitation	2
Total		32 Weeks

Categorisation of practical activities Observed**MCH office and DPHNO**

- CHC/ First Referral Unit (FRU)
- Child guidance clinic
- Institute/Unit for mentally challenged
- District TB centre
- AIDS control society
- Filariasis clinic
- RCH clinic
- STD clinic
- Leprosy clinic
- Community based rehabilitation unit
- Cancer centres
- Palliative care
- Home of old age
- Psychiatric units
- De-addiction centres
- School health services
- Industry
- Selected industrial health centers
- ESI unit
- Municipality/ corporation office

Assisted

- Laparoscopic sterilization
- Vasectomy
- All clinics related to RCH
- Monitoring of national health and family welfare programmes

Performed

- Conduct various clinics
- School health assessment.
- Health survey.
- Health assessment
- Drug administration as per the protocols
- Treatment of minor ailments
- Investigating outbreak of epidemic.
- Screening for leprosy, TB and non-communicable disease
- Presumptive and radical treatment for Malaria.
- Counseling
- Report writing
- Referrals
- Writing a project proposal
- Material management- requisition for indent, condemnation, inventory maintenance,
- Training and Supervision of various categories of personnel
- Liaison with NGO's