



# SRI SHANMUGHA COLLEGE OF NURSING FOR WOMEN

Approved by Government of Tamilnadu & TNNMC. Approved by Indian Nursing Council, New Delhi

Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai

Sankari- Tiruchengode Main Road, Pullipalayam, Morur (Po), Sankari(Tk), Salem (dt), Tamilnadu, Pin- 637304

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## SYLLABUS

### **B. Sc (Nursing)**

B.Sc (N) Regulations and syllabus from 2010-2011 onwards

<https://www.tnmgrmu.ac.in/images/Syllabus-and-curriculum/Allied-Health-Sciences/bscnregulations2010ver2.pdf>

B.Sc (N) Regulations and syllabus from 2022-2023 onwards

<https://www.tnmgrmu.ac.in/images/Syllabus-and-curriculum/Allied-Health-Sciences/BSCNSyllabus-and-Regulation2022-23.pdf>



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Prof. **SHEELAVATHI N**, Ph.D  
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SANKAGIRI (TK) SALEM DT**

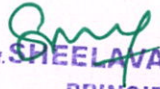
## 18. COURSE OF INSTRUCTION:

### First Year

Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs.) (Clinical)	In Hours
1. English	60		
2. Anatomy	60		
3. Physiology	60		
4. Nutrition	40	20	
5. Biochemistry	60		
6. Nursing Foundations	275 + 200	550	
7. Psychology	80		
8. Microbiology	60	20	
9. Introduction to computers	55	20	
10. Library Work /Self Study			50
11. Co-curricular activities			50
<b>Total Hours</b>	<b>950</b>	<b>610</b>	<b>100</b>
<b>Total Hours = 1660 hrs.</b>			

### Second Year

Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs.) (Clinical)	In Hours
1. Sociology	80		
2. Pharmacology	50		
3. Pathology	30	10	
4. Genetics	20		
5. Medical-Surgical Nursing (Adult including Geriatrics)-I	210	800	
6. Community Health Nursing-I	100	160	
7. Communication and Educational Technology	70	30	
8. Library Work / Self Study			50
9. Co-curricular activities			50
<b>Total Hours</b>	<b>560</b>	<b>1000</b>	<b>100</b>
<b>Total Hours = 1660 hrs.</b>			

  
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### Third Year

Subject	Theory (In hrs.) (Class and Lab)	Practical In hrs) (Clinical)	In Hours
1. Medical Surgical Nursing (Adult including Geriatrics)- II	120	300	
2. Child Health Nursing	100	300	
3. Mental Health Nursing	100	300	
4. Midwifery and Obstetrical Nursing	80	260	
5. Library Work / Self Study			50
6. Co-curricular activities			50
<b>Total Hours</b>	<b>400</b>	<b>1160</b>	<b>100</b>
<b>Total Hours = 1660 hrs</b>			

### Fourth Year

Subject	Theory (In hrs.) (Class and Lab)	Practical (In hrs) (Clinical)	In Hours
1. Midwifery and Obstetrical Nursing	50	170	
2. Community Health Nursing – II	90	140	
3. Nursing Research & Statistics	50	*	
4. Management of Nursing Services and Education	60	30	
<b>Total Hours</b>	<b>250</b>	<b>340</b>	
<b>Total Hours = 590 hrs</b>			

*\*project work to be carried out during internship*

  
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### Integrated Nursing Training (INTERNSHIP)

Subject	Practical (In hrs)	In weeks
1. Midwifery and Obstetrical Nursing	240	5
2. Community Health Nursing – II	195	4
3. Medical Surgical Nursing (Adult and Geriatric)	430	9
4. Child Health Nursing	145	3
5. Mental Health Nursing	95	2
6. Research Project*	45	1
<b>Total</b>	<b>1150</b>	<b>24</b>
<b>Total Hours = 1740</b>		

*\*project work to be carried out during internship*

**Note:**

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



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# ENGLISH


**Placement: First year**

**Theory - 60 Hours**

**Course description:**

The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experience.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	10	<ul style="list-style-type: none"> <li>➤ Speak &amp; write</li> <li>➤ Grammatically correct English</li> </ul>	<ul style="list-style-type: none"> <li>➤ Review of Grammar</li> <li>➤ Remedial study of grammar</li> <li>➤ Building Vocabulary</li> <li>➤ Phonetics</li> <li>➤ Public Speaking</li> </ul>	<ul style="list-style-type: none"> <li>➤ Demonstrate use of dictionary grammar</li> <li>➤ Class-room Conversation</li> <li>➤ Exercise on use of Grammar</li> <li>➤ Practice in Public speaking</li> </ul>	<ul style="list-style-type: none"> <li>➤ Objective type</li> <li>➤ Fill in the blanks</li> <li>➤ Para Phrasing</li> </ul>
II	30	<ul style="list-style-type: none"> <li>➤ Develop ability to read, understand and express meaningfully, the prescribed text.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Read and comprehend prescribed course books</li> </ul>	Exercise on: <ul style="list-style-type: none"> <li>➤ Reading</li> <li>➤ Summarizing</li> <li>➤ Comprehension</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short Answers</li> <li>➤ Essay type.</li> </ul>
III	10	<ul style="list-style-type: none"> <li>➤ Develop writing skills</li> </ul>	Various forms of composition <ul style="list-style-type: none"> <li>➤ Letter writing</li> <li>➤ Note takings</li> <li>➤ Precise writings</li> <li>➤ Nurses Notes</li> <li>➤ Anecdotal records</li> <li>➤ Diary writing</li> <li>➤ Reports on health problem etc</li> </ul>	Exercise on writing: <ul style="list-style-type: none"> <li>➤ Letter writing</li> <li>➤ Nurses Notes</li> <li>➤ Précis</li> <li>➤ Diary</li> <li>➤ Anecdotal</li> <li>➤ Health problem</li> <li>➤ Resume /CV</li> <li>➤ Essay Writing</li> </ul> - Discussion on written reports / documents	Assessment of the skills based on the checklist.
IV	6	<ul style="list-style-type: none"> <li>➤ Develop skill in spoken English</li> </ul>	<b>Spoken English</b> <ul style="list-style-type: none"> <li>➤ Oral report</li> <li>➤ Discussion</li> <li>➤ Debate</li> <li>➤ Telephonic Conversion</li> </ul>	Exercise on: <ul style="list-style-type: none"> <li>➤ Debating</li> <li>➤ Participating in Seminar, Panel, Symposium</li> <li>➤ Telephonic Conversion</li> <li>➤ Conversation in different situations, practice in public speaking</li> </ul>	Assessment of the skills based on the checklist.

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
V	4	➤ Developing skills in listening comprehension	Listening Comprehension ➤ Media, audio, video, speeches etc.	Exercise on: ➤ Listening to audio, video tapes and identify the key points	Assessment of the skills based on the checklist.


**ENGLISH      100 MARKS**

***Internal Examination :***

***100***

**REFERENCES**

1. Selva Rose. 1997, Career English for Nurses. Chennai: Orient Longman Ltd.
2. Oxford advanced Learners Dictionary, 1996.
3. Quirk, Randolph and Greenbaum Sidney, 1987. A University Grammar of English, Hong Kong: Longman group (FE) Ltd.
4. Thomson A. J. and Maitland A. V. 1987, A Practical English Grammar, Delhi: Oxford University Press.
5. Gimson A. E. 1986, An Introduction to pronunciation of English. Hong Kong: Wing King Tong Co. Ltd.
6. O' Connor J. D, 1986. Better English pronunciation. Cambridge: University Press.
7. Bywater F. V. A. 1982, Proficiency Course in English. London: Hodder and Stoughton.

  
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# ANATOMY


Placement: First year

Theory - 60 Hours

## Course description:

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	5	<ul style="list-style-type: none"> <li>➤ Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands</li> </ul>	<b>Introduction to Anatomical terms organization of the human body</b> <ul style="list-style-type: none"> <li>➤ Human Cell structure</li> <li>➤ Tissues -Definition, Types, characteristics, classification, location, functions and formation</li> <li>➤ Membranes and glands - classification and structure</li> </ul> Alterations in disease Applications and implications nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using charts, microscopic slides, Skeleton &amp; torso</li> <li>➤ Demonstrate cells, types of tissues membranes and glands</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
II	6	<ul style="list-style-type: none"> <li>➤ Describe the structure &amp; function of bones and joints</li> </ul>	<b>The Skeletal System</b> <ul style="list-style-type: none"> <li>➤ Bones- types, structure, Axial &amp; Appendicular Skeleton,</li> <li>➤ Bone formation and growth</li> <li>➤ Description of bones</li> <li>➤ Joints - classification and structure</li> <li>➤ Alterations in disease</li> </ul> Applications and implications in nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using charts, skeleton, loose bones, and joints</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
III	7	<ul style="list-style-type: none"> <li>➤ Describe the structure and function of muscles</li> </ul>	<b>The Muscular System</b> <ul style="list-style-type: none"> <li>➤ Types and structure of muscles</li> <li>➤ Muscle groups</li> </ul> Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using chart, models and films</li> <li>➤ Demonstrate muscular movements</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
IV	6	<ul style="list-style-type: none"> <li>➤ Describe the structure &amp; function of nervous system</li> </ul>	<b>The Nervous System</b> <ul style="list-style-type: none"> <li>➤ Structure of neurologia &amp; neurons</li> <li>➤ Somatic Nervous system - Structure of brain, spinal cord, cranial nerves,</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using models, charts, slides, specimens</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			spinal nerves, peripheral nerves ➤ Autonomic Nervous System — sympathetic, parasympathetic - Structure, location Alterations in disease Applications and implications in nursing		
V	6	Explain the structure & functions of sensory organs	<b>The Sensory Organs</b> ➤ Structure of skin, eye, ear, nose, tongue, (Auditory and olfactory apparatus) Alterations in disease Applications and implications in nursing	➤ Lecture discussion ➤ Explain using models, charts, slides, specimens ➤ Record book	➤ Short answer questions ➤ Objective type
VI	7	Describe the structure & function of circulatory and lymphatic system	<b>Circulatory and lymphatic system</b> ➤ The Circulatory System - Blood — Microscopic structure - Structure of Heart Structure of blood vessels — Arterial & Venous System, - Circulation: systemic, pulmonary, coronary Lymphatic system - Lymphatic vessels and lymph - Lymphatic tissues - Thymus gland - Lymph nodes - Spleen - Lymphatic nodules Alterations in disease Applications and implications in nursing	➤ Lecture discussion ➤ Explain using models, charts, slides, specimens ➤ Record book	➤ Short answer questions ➤ Objective type
VII	5	➤ Describe the structure & functions of respiratory system	<b>The Respiratory System</b> • Structure of the organs of respiration • Muscles of respiration: Intercostal and Diaphragm Alterations in disease Applications and implications in nursing	➤ Lecture discussion ➤ Explain using models, charts, slides, specimens ➤ Record book	➤ Short answer questions ➤ Objective type
VIII	6	Describe the structure & functions of digestive system	<b>The Digestive System</b> • Structure of Alimentary tract and accessory organs of digestion Alterations in disease Applications and implications in	➤ Lecture discussion ➤ Explain using models, charts, slides, specimens ➤ Record book	➤ Short answer questions ➤ Objective type

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			nursing		
IX	4	Describe the structure & functions Of excretory system	<b>The Excretory System (Urinary)</b> • Structure of organs of urinary System: Kidney, ureters, urinary bladder, urethra, structure of skin Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using models, charts, slides, specimens</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
X	4	Describe the structure & functions of endocrine system	<b>•The Endocrine System</b> Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using models, charts, slides, specimens</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
XI	4	Describe the structure and functions of reproductive system	<b>The Reproductive system including breast</b> • Structure of female reproductive organs • Structure of male reproductive organs. • Structure of breast Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using models, charts, slides, specimens</li> <li>➤ Record book</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

**Prescribed Internal Assessment Weightage:**

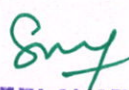
**Internal Assessment : (i) Term Test - 15**  
**(ii) Assignment - 5**  
**(iii) Record Work - 5**

**Anatomy & Physiology**

**Recommended Books:**

Cohen – Memmler’s Structure & Function of Human Body, 2009, LWW.

Waugh – Ross & Wilson Anatomy & Physiology, 2008, Elsevier.

  
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# PHYSIOLOGY


Placement: First year

Theory - 60 Hours


## Course Description:

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

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

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
IV	7	<ul style="list-style-type: none"> <li>➤ Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves</li> <li>➤ Demonstrate reflex action and stimulus</li> </ul>	<p><b>Nervous System</b></p> <ul style="list-style-type: none"> <li>➤ Functions of Neurologia &amp; neurons</li> <li>➤ Stimulus &amp; nerve-impulse-definitions and mechanism</li> <li>➤ Functions of brain, spinal cord, cranial and spinal nerves</li> <li>➤ Cerebrospinal fluid-Composition, circulation and function</li> <li>➤ Reflex arc, Reflex action and reflexes</li> </ul> <p>Autonomic functions— Pain: somatic, visceral, and referred Autonomic learning and biofeedback Alternations in disease Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using, Charts, models and films</li> <li>➤ Demonstrate nerve stimulus, reflex action, reflexes</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
V	8	<p>Describe the physiology blood and functions of Heart Demonstrate blood cell count, coagulation, grouping, Hb: BP and Pulse monitoring</p>	<p><b>Circulatory System</b></p> <ul style="list-style-type: none"> <li>➤ Blood formation, composition, blood groups, blood coagulation</li> <li>➤ Hemoglobin: Structure, Synthesis and breakdown, Variation of molecules, estimation</li> <li>➤ Functions of Heart, Conduction, Cardiac cycle, circulation— Principles, Control, factors influencing BP and Pulse</li> <li>➤ Alternations in disease</li> </ul> <p>Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> <li>➤ Demonstration of Blood cell count, coagulation, grouping, Hemoglobin estimation, Heart conduction system.</li> <li>➤ Measurement of pulse, BP</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
VI	6	<ul style="list-style-type: none"> <li>• Describe the physiology and mechanisms of respiration</li> <li>• Demonstrates spirometry</li> </ul>	<p><b>The Respiratory System</b></p> <ul style="list-style-type: none"> <li>➤ Functions of respiratory organs</li> <li>➤ Physiology of respiration</li> <li>➤ Pulmonary ventilation, Volume</li> <li>➤ Mechanics of respiration</li> <li>➤ Gaseous exchange in lungs</li> <li>➤ Carriage of oxygen &amp; carbon-dioxide Exchange of</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> <li>➤ Demonstration of spirometry</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<p>gases in tissues</p> <ul style="list-style-type: none"> <li>➤ Regulation of respiration.</li> <li>➤ Alterations in disease</li> </ul> <p>Applications and implications in nursing.</p>		
VII	6	<ul style="list-style-type: none"> <li>• Describes the physiology of digestive system</li> <li>• Demonstrates BMR</li> </ul>	<p><b>The Digestive System</b></p> <ul style="list-style-type: none"> <li>• Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food. Functions of liver, gall bladder and pancreas</li> <li>• Metabolism of carbohydrates, protein and fat</li> </ul> <p>Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, Films</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
VIII	5	<p>Describe the physiology of Excretory System</p>	<p><b>The Excretory System</b></p> <ul style="list-style-type: none"> <li>• Functions of kidneys, ureters, urinary bladder &amp; urethra</li> <li>• Composition of urine</li> <li>• Mechanism of urine formation</li> <li>• Functions of skin</li> <li>• Regulation of body temperature</li> <li>• Fluid and electrolyte balance.</li> </ul> <p>Alterations in disease Applications and implications in nursing.</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
IX	4	<ul style="list-style-type: none"> <li>• Describe the physiology of sensory organs</li> </ul>	<p><b>The Sensory Organ</b></p> <ul style="list-style-type: none"> <li>• Functions of skin, eye, ear, nose, tongue,</li> <li>• Alterations in disease</li> </ul> <p>Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
X	5	<p>Describe the physiology of endocrine glands</p>	<p><b>The Endocrine System</b></p> <ul style="list-style-type: none"> <li>• Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid, pancreas, Supra renal, Placenta and ovaries &amp; Testes</li> </ul> <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> <li>➤ Demonstration of BMR</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
XI	5	<p>Describe the physiology of male and female reproductive</p>	<p><b>The Reproductive System</b></p> <ul style="list-style-type: none"> <li>• Reproduction of cells — DNA, Mitosis, Meiosis, spermatogenesis, oogenesis.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films,</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		system	<ul style="list-style-type: none"> <li>• Functions of female reproductive organs; Functions of breast, Female sexual cycle.</li> <li>• Introduction to embryology.</li> <li>• Functions of male reproductive organs, Male function in reproduction, Male fertility system, Alterations in disease Applications and implications in nursing.</li> </ul>	models, specimens	
XII	2	Describe the physiology of Lymphatic and Immunological System	<b>Lymphatic and Immunological System</b> <ul style="list-style-type: none"> <li>• Circulation of lymph</li> <li>• Immunity <ul style="list-style-type: none"> <li>Formation of T-cells and cells</li> <li>Types of Immune response</li> <li>Antigens</li> <li>Cytokines</li> <li>Antibodies</li> </ul> </li> </ul> Applications and implications in nursing.	<ul style="list-style-type: none"> <li>➤ Lecture discussion</li> <li>➤ Explain using Charts, films</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

**Prescribed Internal Assessment Weightage:**

**Internal Assessment : Term Test - 15**  
**Assignment - 5**  
**Record Work - 5**

**Anatomy & Physiology**

**Recommended Books:**

1. Cohen – Memmler’s Structure & Function of Human Body, 2009, LWW.
2. Waugh – Ross & Wilson Anatomy & Physiology, 2008, Elsevier.
3. Venkatesh – Basic Medical Physiology for Nursing ,2009 ,LWW

**Reference Books:**

Venkatesh – Basic Medical Physiology, 2009, LWW  
 Guyton – Medical Physiology, 2007, Elsevier.  
 West – Best& Taylor Physiologic Basis of Disease, Waverly.

# NUTRITION


**Placement: First year**

**Theory - 60 Hours**


**Course Description:**

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	4		<ul style="list-style-type: none"> <li>➤ Describe the relationship between nutrition &amp; Health.</li> </ul>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Nutrition:                             <ul style="list-style-type: none"> <li>- History</li> <li>- Concepts</li> </ul> </li> <li>• Role of nutrition in maintaining health</li> <li>• Nutritional problems in India</li> <li>• National nutritional policy</li> <li>• Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc</li> <li>• Role of food and its medicinal value</li> <li>• Classification of foods</li> <li>• Food standards</li> <li>• Elements of nutrition: macro and micro</li> <li>• Calorie, BMR</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> <li>➤ Panel discussion</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
II	2		<ul style="list-style-type: none"> <li>➤ Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates</li> </ul>	<p><b>Carbohydrates</b></p> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Caloric value</li> <li>• Recommended daily allowances</li> <li>• Dietary sources.</li> <li>• Functions</li> <li>• Digestion, absorption and storage, metabolism of carbohydrates</li> <li>• Malnutrition: Deficiencies and Over</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>


  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
				consumption		
III	2		<ul style="list-style-type: none"> <li>➤ Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats</li> </ul>	<b>Fats</b> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Caloric value</li> <li>• Recommended daily allowances</li> <li>• Dietary sources.</li> <li>• Functions.</li> <li>• Digestion, absorption and storage, metabolism</li> <li>• Malnutrition: Deficiencies and Over consumption</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
IV	2		<ul style="list-style-type: none"> <li>➤ Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins</li> </ul>	<b>Proteins</b> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Caloric value</li> <li>• Recommended daily allowances</li> <li>• Dietary sources.</li> <li>• Functions.</li> <li>• Digestion, absorption, metabolism and storage</li> <li>• Malnutrition: Deficiencies and Over consumption</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
V	3		<ul style="list-style-type: none"> <li>➤ Describe the daily calorie requirement for different categories of people</li> </ul>	<b>Energy</b> <ul style="list-style-type: none"> <li>• Unit of Energy - Kcal</li> <li>• Energy requirements of different categories of people.</li> <li>• Measurements of energy.</li> <li>• Body Mass Index (BMI) and basic metabolism</li> <li>• Basal Metabolic Rate (BMR) - determination and factors affecting</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> <li>➤ Exercise</li> <li>➤ Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
VI	4		<ul style="list-style-type: none"> <li>➤ Describe the classification, functions, sources and recommended daily allowances (RDA) of Vitamins</li> </ul>	<b>Vitamins</b> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Recommended daily allowances</li> <li>• Dietary sources.</li> <li>• Functions.</li> <li>• Absorption, synthesis, metabolism storage and excretion</li> <li>➤ Deficiencies</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
				➤ Hypervitaminosis		

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
VII	4		<ul style="list-style-type: none"> <li>➤ Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals</li> </ul>	<b>Minerals</b> <ul style="list-style-type: none"> <li>➤ Classification</li> <li>➤ Recommended daily allowances</li> <li>➤ Dietary sources.</li> <li>➤ Functions.</li> <li>➤ Absorption, synthesis, metabolism storage and excretion</li> <li>➤ Deficiencies</li> <li>➤ Over consumption and toxicity</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
VIII	3		<ul style="list-style-type: none"> <li>➤ Describe the sources, functions and requirements of Water &amp; electrolytes</li> </ul>	<b>Water ,Metabolism, &amp; Electrolytes</b> <ul style="list-style-type: none"> <li>• Water: Daily requirement, regulation distribution of body water,</li> <li>• Electrolytes: Types, sources, composition of body fluids</li> <li>• Maintenance of fluid &amp; electrolyte balance</li> <li>• Over hydration, dehydration and water intoxication</li> <li>• Electrolyte imbalances</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
IX	5	15	<ul style="list-style-type: none"> <li>➤ Describe the Cookery rules and preservation of nutrients</li> <li>➤ Prepare and serve simple beverages and different types of foods</li> </ul>	<b>Cookery rules and preservation of nutrients</b> <ul style="list-style-type: none"> <li>• Principles, methods of cooking and serving</li> <li>• Preservation of nutrients</li> <li>• Safe Food handling-toxicity</li> <li>• Storage of food</li> <li>• Food preservation, food additives and its principles</li> <li>• Prevention of food adulteration Act (PFA)</li> <li>• Food standards</li> <li>• Preparation of simple beverages and different types of food</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Demonstration</li> <li>➤ Practice session</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> <li>➤ Assessment of practice sessions</li> </ul>
X	7	5	<ul style="list-style-type: none"> <li>➤ Describe and plan balanced diet for</li> </ul>	<b>Balanced diet</b> <ul style="list-style-type: none"> <li>➤ Elements</li> <li>➤ Food groups</li> <li>➤ Recommended Daily</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lecture Discussion</li> <li>➤ Explaining using charts</li> </ul>	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>

  
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		different categories of people	Allowance • Nutritive value of foods • Calculation of balanced diet for different categories of people Planning menu Budgeting of food Introduction to therapeutic diets: Naturopathy --Diet	➤ Practice session ➤ Meal planning	➤ Exercise on menu Planning
XI	4	➤ Describe various national programmes related to nutrition ➤ Describe The role of nurse in assessment of nutritional status and nutrition education	<b>Role of nurse in nutritional programmes</b> • National programmes related to nutrition o Vitamin A deficiency programme o National iodine deficiency disorders (IDD) programme o Mid-day meal programme o Integrated child development scheme (ICDS) • National and International agencies working towards food/nutrition o NIPCCD, CARE, FAO, NIN, CFTRI(Central food technology and research institute) etc • Assessment of nutritional status • Nutrition education and role of nurse	➤ Lecture Discussion ➤ Explaining using charts ➤ Slide /Film shows ➤ Demonstration of Assessment of nutritional status	➤ Short answer questions ➤ Objective type

**Prescribed Internal Assessment Weightage:**  
**NUTRITION**

Internal Assessment : Term Test - 15  
 Assignment - 5  
 Dietary practical - 5



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# BIOCHEMISTRY

**Placement: First year**

**Theory - 60 Hours**

**Course Descriptions:**

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	6	<ul style="list-style-type: none"> <li>- Describe the structure</li> <li>Composition and functions of cell</li> <li>- Differentiate between Prokaryote and Eukaryote cell</li> <li>- Identify techniques of Microscopy</li> </ul>	<b>Introduction</b> <ul style="list-style-type: none"> <li>➤ Definition and significance in nursing</li> <li>➤ Review of structure, Composition and functions of cell</li> <li>➤ Prokaryote and Eukaryote cell organization</li> <li>➤ Microscopy</li> </ul>	Lecture discussion using charts, slides Demonstrate use of microscope	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
II	6	<ul style="list-style-type: none"> <li>➤ Describe the Structure and functions of Cell membrane</li> </ul>	<b>Structure and functions of Cell membrane</b> <ul style="list-style-type: none"> <li>➤ Fluid mosaic model tight junction, Cytoskeleton</li> <li>➤ Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump</li> <li>➤ Acid base balance-maintenance &amp; diagnostic tests</li> <li>- PH buffers</li> </ul>	Lecture discussion	<ul style="list-style-type: none"> <li>➤ Short answer questions</li> <li>➤ Objective type</li> </ul>
III	12	<ul style="list-style-type: none"> <li>➤ Explain the metabolism of carbohydrates</li> </ul>	<b>Composition and metabolism of Carbohydrates</b> <ul style="list-style-type: none"> <li>➤ Types, structure, composition and uses                             <ul style="list-style-type: none"> <li>- Monosaccharides,</li> <li>- Disaccharides,</li> <li>Polysaccharides,</li> <li>Oligosaccharides</li> </ul> </li> </ul>	Lecture discussion Demonstration of blood glucose monitoring	Short answer questions Objective type
			<ul style="list-style-type: none"> <li>• Metabolism Pathways of glucose:                             <ul style="list-style-type: none"> <li>- Glycolysis</li> <li>- Gluconeogenesis: Cori's</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>➤</li> </ul>

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<p>cycle, Tricarboxylic acid (TCA) cycle</p> <ul style="list-style-type: none"> <li>- Glycogenolysis</li> <li>- Pentose phosphate pathways (Hexose mono phosphate)</li> </ul> <p>Regulation of blood glucose level</p> <p>Investigations and their Interpretations</p>		
IV	10	➤ Explain the metabolism of Lipids	<p><b>Composition and metabolism of Lipids</b></p> <ul style="list-style-type: none"> <li>• Types, structure, composition and uses of fatty acids</li> <li>- Nomenclature, Roles and Prostaglandins</li> <li>• Metabolism of fatty acid <ul style="list-style-type: none"> <li>- Breakdown</li> <li>- Synthesis</li> </ul> </li> <li>• Metabolism of triacylglycerols</li> <li>• Cholesterol metabolism <ul style="list-style-type: none"> <li>- Biosynthesis and its Regulation</li> <li>- Bile salts and bilirubin</li> <li>- Vitamin D</li> <li>- Steroid hormones</li> </ul> </li> <li>• Lipoproteins and their functions: <ul style="list-style-type: none"> <li>- VLDLs- IDLs, LDLs and HDLs</li> <li>- Transport of lipids</li> <li>- Atherosclerosis,</li> </ul> </li> </ul> <p>Investigations and their interpretations</p>	<p>Lecture</p> <p>Discussion using charts</p> <p>Demonstration of laboratory tests</p>	<p>Short answer questions</p> <p>Objective type</p>
V	11	➤ Explain the metabolism of Amino acids and Proteins	<p><b>Composition and metabolism of Amino acids and Proteins</b></p> <ul style="list-style-type: none"> <li>• Types, structure, composition and uses of Amino acids and Proteins</li> <li>• Metabolism of Amino acids and Proteins</li> </ul>	<p>Lecture</p> <p>Discussion using charts</p> <p>Demonstration of laboratory tests</p>	<p>Short answer questions</p> <p>Objective type</p>
			<p>Protein synthesis, targeting and glycosylation</p> <ul style="list-style-type: none"> <li>- Chromatography</li> <li>- Electrophoresis</li> </ul>		

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>- Sequencing</li> <li>Metabolism of Nitrogen</li> <li>- Fixation and Assimilation</li> <li>- Urea Cycle</li> <li>- Hemes and chlorophylls</li> <li>Enzymes and co-enzymes</li> <li>- Classification</li> <li>Properties</li> <li>- Kinetics and inhibition</li> <li>- Control</li> <li>Investigations and their interpretations</li> </ul>		
VI	7	➤ Describe types, composition and utilization of Vitamins & minerals	<b>Composition of Vitamins and minerals</b> <ul style="list-style-type: none"> <li>• Vitamins and minerals:</li> <li>- Structure</li> <li>- Classification</li> <li>- Properties</li> <li>- Absorption</li> <li>- Storage &amp; transportation</li> <li>- Normal concentration</li> <li>Investigations and their interpretations</li> </ul>	Lecture Discussion Demonstrate laboratory tests	Short answer questions Objective type
VII	8	➤ Describe Immuno-chemistry	<b>Immuno chemistry</b> <ul style="list-style-type: none"> <li>• Immune response,</li> <li>• Structure and classification of immunoglobins</li> <li>• Mechanism of antibody production</li> <li>• Antigens: HLA typing.</li> <li>• Free radical and Antioxidants.</li> <li>• Specialised Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein.</li> <li>• Electrophoretic and Quantitative determination of immunoglobins — ELISA etc. Investigations and their interpretations</li> </ul>	Lecture Discussion Demonstrate laboratory tests	Short Answer questions Objective type

**Prescribed Internal Assessment Weightage:**

**Internal Assessment : Term Test - 15**  
**Laboratory - 5**  
**Assignment - 5**

  
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## PSYCHOLOGY

**Placement: First year**

**Time: Theory - 80 hours**


### Course Description:

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	2	Describe the history, scope and methods of psychology	<b>Introduction</b> <ul style="list-style-type: none"> <li>• History and origin of science of psychology</li> <li>• Definitions &amp; Scope of Psychology</li> <li>• Relevance to nursing</li> <li>• Methods of Psychology</li> </ul>	Lecture discussion	Essay type Short answer
II	7	➤ Explain the biology of Human behaviour	<b>Biology of behaviour</b> <ul style="list-style-type: none"> <li>• Body mind relationship- modulation process in health and illness</li> <li>• Genetics and behaviour: Heredity and environment</li> <li>• Brain and behaviour: Nervous System,, Neurons and synapse,</li> <li>• Association Cortex, Rt and Lt Hemispheres</li> <li>• Psychology of Sensations</li> <li>• Muscular and glandular controls of behaviour</li> <li>• Nature of behaviour of an organism/Integrated responses</li> </ul>	Lecture discussion	➤ Essay type ➤ Short answers
III	24	➤ Describe various cognitive processes and their applications	<b>Cognitive processes</b> <ul style="list-style-type: none"> <li>• Attention: Types, determinants, Duration &amp; degree, alterations</li> <li>• Perception: Meaning, Principles, factors affecting, Errors,</li> <li>• Learning: Nature, Types, learner and learning, Factors influencing, laws and theories, process, transfer, study habits</li> <li>• Memory: Meaning, Types, Nature Factors influencing, Development Theories and methods of memorizing and Forgetting</li> <li>Thinking: Types and levels, stages of development, Relationship with</li> </ul>	Lecture Discussion  Psychometric assessment: Practice sessions	Essay type Short answers

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			language and communication Intelligence: Meaning, classification, uses, theories Aptitude: Concept, types, Individual differences and variability Psychometric assessments of cognitive processes Alterations in cognitive processes Applications		
IV	12	➤ Describe motivation, emotions, stress, attitudes and their influence on behaviour	<b>Motivation and Emotional Processes:</b> • Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, Conflicts and frustration, conflict resolution • Emotions & stress Emotion: Definition, components, Changes in emotions, theories emotional adjustments, emotions in health and illness Stress: stressors, cycle, effect, adaptation & coping • Attitude: Meaning, nature, development, factors affecting, Behaviour and attitudes Attitudinal change • Psychometric assessments of emotions and attitudes • Alterations in emotions Applications	Lecture Discussion Role plays Case Discussion Demonstration	Essay type Short answers
V	9	Explain the concepts of personality and its influence on behaviour	<b>Personality</b> Definitions, topography, types, Theories Psychometric assessments of personality Alterations in personality Applications	Lecture discussion Demonstration	Essay type Short answers
VI	9	Describe psychology of people during the life cycle	<b>Developmental Psychology</b> • Psychology of people at different ages from infancy to old age • Psychology of vulnerable individuals-challenged, women, sick, etc Psychology of groups	Lecture Discussion Case Discussion	Essay type Short answers
VII	11	Describe the characteristics of Mentally healthy Person  Explain ego defence mechanisms	<b>Mental hygiene and mental Health</b> • Concepts of mental hygiene and mental health • Characteristics of mentally healthy person • Warning signs of poor mental health • Promotive and Preventive mental health-	Lecture Discussion Case Discussion Role play Demonstration	Essay type Short answers


  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			strategies and services • Ego Defence mechanisms and implications • Personal and social adjustments • Guidance and counseling • Role of nurse		
VIII	6	Explain the Psychological assessments and role of nurse	<b>Psychological assessment &amp; tests</b> • Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment	Lecture Discussion Demonstration Practice sessions	Assessment of practice

**Prescribed Internal Assessment Weightage:**

*Internal Assessment : Term Test - 30*  
*Assignment - 20*

  
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# MICROBIOLOGY

**Placement: First year**


**Time: Theory - 80hours**

**(Theory 60+ 20 lab)**

**Course Description:**

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	5		Explain concepts and principles of microbiology and their Importance nursing	<b>Introduction:</b> <ul style="list-style-type: none"> <li>• Importance and relevance to nursing</li> <li>• Historical perspective</li> <li>• Concepts and terminology</li> <li>• Principles of microbiology</li> </ul>	Lecture Discussion	Short answer questions Objective type
II	14	7	Describe structure, classification morphology and growth of bacteria Identify Micro-organisms	<b>General characteristics of Microbes</b> <ul style="list-style-type: none"> <li>• Structure and classification of Microbes</li> <li>• Morphological types</li> <li>• Size and form of bacteria</li> <li>• Motility</li> <li>• Colonization</li> <li>• Growth and nutrition of microbes</li> <li>• Temperature</li> <li>• Moisture</li> <li>• Blood and body fluids</li> <li>• Laboratory methods for Identification of Microorganisms</li> <li>• Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation</li> <li>• Culture; various medias</li> </ul>	Lecture Discussion Demonstration	Short answer questions Objective type

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
III	14	2	Describe the methods of infection control Identify the role of nurse in hospital infection control programme	<b>Infection control</b> <ul style="list-style-type: none"> <li>• Infection: Sources, portals of entry and exit, transmission</li> <li>• Asepsis</li> <li>• Disinfection; Types and methods</li> <li>• Sterilization; Types and Methods</li> <li>Chemotherapy and antibiotics</li> <li>• Standard safety measures</li> </ul>	Lecture Discussion Demonstration Visits to CSSD Clinical practice	Short answers Objective type
				<ul style="list-style-type: none"> <li>• Biomedical waste management</li> <li>• Role of Nurse</li> <li>• Hospital acquired infection</li> <li>• Hospital infection control programme</li> </ul> Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc.		
IV	16	6	Describe the different disease producing organisms	<b>Pathogenic organisms</b> <ul style="list-style-type: none"> <li>• Micro-organisms</li> <li>- Cocci — gram positive and gram negative</li> <li>bacilli— gram positive and gram negative</li> <li>Spirochaete</li> <li>Mycoplasma</li> <li>Rickettsiae</li> <li>Chlamydiae</li> <li>• Viruses -</li> <li>• Fungi -Superficial and Deep mycoses</li> <li>• Parasites</li> <li>• Rodents &amp; vectors</li> </ul> Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms Collection, handling and transportation of various specimens	Lecture Discussion Demonstration	Short answer questions Objective type
V	11	5	Explain the	<b>Immunity</b>	Lecture	Short answers

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
			concept of immunity, hyper sensitivity and immunization	<ul style="list-style-type: none"> <li>• Immunity-Types, classification</li> <li>• Antigen and antibody reaction</li> <li>• Hypersensitivity — skin test</li> <li>• Serological tests</li> <li>• Immunoprophylaxis</li> <li>Vaccines &amp; sera -Types &amp; Classification, storage and handling, cold chain</li> <li>Immunization for various diseases</li> <li>-Immunization Schedule</li> </ul>	Discussion Demonstration Clinical practice	Objective type

**Prescribed Internal Assessment Weightage:**

**MICROBIOLOGY**

Internal Assessment : Term Test - 30  
Assignment - 20

  
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## INTRODUCTION TO COMPUTERS

**Placement: First year**

**Time: Theory - 55 hours**

**Practical – 20hours**

### Course Description:

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
I	5		Identify & define various concepts used in computer identify application of computer in nursing	<b>Introduction:</b> • Concepts of Computers • Hardware and software; trends and technology • Application of computers in nursing	Lecture Discussion Demonstration	Short answers Objective type
II	15	10	Describe and Use the Disk Operating System Demonstrate skill in the use of MS Office	• Introduction to disk-operating system DOS • Windows (all version) • Introduction u MS-Word MS-Excel with pictorial presentation MS-Access MS-Power point	Lecture Discussion Demonstration Practice Session	Short answer questions Objective type Practical Exam
III	10	3	Demonstrate skill in using multi-media Identify features of computer aided teaching and testing	Multimedia; types & uses Computer aided teaching & testing.	Lecture Discussion Demonstration	Short answers Objective type Practical Exam and Viva Voce
IV	5	3	Demonstrate use of internet and Email	Use of Internet and: e-mail	Lecture Discussion Demonstration Practice Session	Short answers Objective type Practical Exam and Viva Voce
V	10	2	Describe and use the statistical packages	Statistical packages: types and their features	Lecture Discussion Demonstration Practice Session	Short answers Objective type Practical Exam and Viva Voce
VI	10	2	Describe the use of Hospital Management System	Hospital Management System: Types and uses	Lecture Discussion Demonstration	Short answer questions Objective type Practical Exam and Viva Voce

  
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**INTRODUCTION TO COMPUTERS 100 marks**

**Internal Examination : 100**

**References**

- 1.N.K.Anand & Shikha Goel ,Computers for Nurses, A.I.T.B.S. Publishers ,India.2009.
2. Thacker N Computers for Nurses, India. 2009

  
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## SOCIOLOGY


**Placement: Second year**

**Theory- 80 Hours**

**Course Description:**

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	1	➤ State the importance of sociology in Nursing	Introduction ➤ Definition of Sociology ➤ Nature and Scope of the discipline ➤ Importance and application of Sociology in Nursing	➤ Lecture Discussion	➤ Essay type ➤ Short answers
II	3	➤ Describe the inter-relationship of individual in society and community	Individual & Society ➤ Society and Community ➤ Nature of Society ➤ Difference between Society and Community ➤ Process of Socialization and individualization ➤ Personal disorganization	➤ Lecture Discussion	➤ Essay type ➤ Short answers
III	5	➤ Describe the influence of culture and on health and disease	Culture • Nature of culture • Evolution of culture • Diversity and uniformity of culture • Culture and socialization • Transcultural society • Influence on health and disease	Lecture Discussion Panel Discussion	Essay type Short answers
IV	6	➤ Identify various social groups and their interactions	<b>Social groups and Processes</b> The meaning and classification of groups Primary & Secondary	Lecture Discussion	Essay type Short answers

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			Group In-group V/s. Out-group, Class Tribe, Caste Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction & Social Processes Co-operation, Competition, Conflict Accommodation, Assimilation & Isolation		
V	8	Explain the growth of population in India and its impact on health	<b>Population</b> • Society and population • Population distribution in India- Demographic characteristics • Malthusian theory of Populations • Population explosion in India and its impact on health status • Family welfare programmes	Lecture Discussion Community identification	Essay type Short answers Assessment of report on community identification
VI	7	Describe the institutions of family and marriage in India	<b>Family and Marriage</b> • Family- Functions • Types-Joint, Nuclear, Blended and extended family: Characteristics • The Modern Family — Changes, Problems-Dowry etc., welfare Services • Changes & legislations on family and marriage in India - marriage acts • Marriage: Forms and functions of marriage, • Marriage and family problems in India • Family, marriage and their influence on health and health practices	Lecture Discussion Family Case study	Essay type Short answers Assessment of family case study
VII	9	Describe the	<b>Social Stratification</b>	Lecture	Essay type

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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		class and caste system and their influence on health and health practices	<b>Meaning &amp; types of social stratification</b> The Indian Caste System- origin & features Features of Caste in India Today <ul style="list-style-type: none"> <li>• Social Class system and status</li> <li>• Social Mobility-Meaning &amp; Types</li> <li>• Race as a biological concept, criteria of racial classification</li> <li>• Salient features of Primary races- Racism</li> <li>• Influence of Class, Caste and Race on health and health practices</li> </ul>	Discussion Community survey	Short answers Assessment of report on community survey
VIII	8	Describe the types of communities in India, their practices and the impact on health	<b>Types of Communities in India</b> (Rural, Urban and Regional) Features of village community & Characteristics of Indian villages- Panchayat system, social dynamics Community Development project & planning Changes in Indian Rural Life Availability of health facilities in rural and its impact on health and health practices Urban Community features The growth of cities: Urban isation and its impact on health and health practices Major Urban problems- Urban Slums Region: Problems and impact on Health	Lecture Discussion Visits to rural and urban community Community survey	Essay type Short answers Assessment of report on community survey


Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
IX	6	Explain the process of Social Change	<b>Social Change</b> <ul style="list-style-type: none"> <li>• Nature and process of Social Change</li> <li>• Factors influencing Social change: cultural change, Cultural lag.</li> <li>• Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional</li> </ul> Role of nurse-Change agents	Lecture Discussion	Essay type Short answers
X	6	Explain the process of Social Change	<b>Social organization and social system</b> <ul style="list-style-type: none"> <li>• Social organization: elements, types</li> <li>• Democratic and authoritarian modes of participation,</li> <li>• Voluntary associations</li> <li>• Social system: Definition and Types of social system</li> <li>• Role and Status as structural elements of social system</li> </ul> Inter-relationship of institutions	Lecture Discussion Observation visits	Essay type Short answers  Assessment of visit reports
XI	4	Explain the nature and process of social control	<b>Social Control</b> <ul style="list-style-type: none"> <li>• Nature and process of social control</li> <li>• Political, Legal, Religious, Educational, Economic,</li> </ul> Industrial and Technological systems, Norms & Values- Folkways & Mores Customs, Laws and Fashion Role of Nurse.	Lecture Discussion Community survey	Essay type Short answers  Assessment of report on community survey.
XII	17	Describe the role of the nurse in	<b>Social Problems</b> <ul style="list-style-type: none"> <li>• Social disorganization</li> </ul>	Lecture Discussion	Essay type Short

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		dealing with social problems in India	<ul style="list-style-type: none"> <li>Control &amp; planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women &amp; children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/AIDS.</li> <li>Social Welfare programmes in India</li> <li>Role of nurse</li> </ul>	Institutional visits	Answers  Assessment of visit reports

**Prescribed Internal assessment weightage:**

**Internal Assessment : Term Test - 30**  
**Assignment - 20**

  
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## PHARMACOLOGY

Placement: Second year


Theory- 50 Hours

Course Description:

**Objectives:** To enable the students to acquire understanding of Pharmacodynamics, Pharmacokinetics and Principles of Therapeutics and Nursing implications.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	8	Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration	<b>Introduction to pharmacology</b> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Sources</li> <li>• Terminology used</li> <li>• Types: Classification</li> <li>• Pharmacodynamics: Actions, therapeutic, Adverse, toxic</li> <li>• Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion</li> <li>• Review: Routes and principles of administration of drugs</li> <li>• Indian pharmacopoeia: Legal issues</li> <li>• Rational use of drugs</li> <li>• Principles of therapeutics</li> </ul>	Lecture Discussion	Short answers Objective type
II	6	Explain chemotherapy of specific infections and infestations and nurse's responsibilities	<b>Chemotherapy</b> <ul style="list-style-type: none"> <li>• Pharmacology of commonly used;</li> <li>• Penicillin</li> <li>• Cephalosporins.</li> <li>• Aminoglycosides</li> <li>• Macrolide &amp; Broad Spectrum Antibiotics</li> <li>• Sulfonamides</li> <li>• Quinolones.</li> <li>• Antiamoebic</li> <li>• Antimalarials</li> <li>• Anthelmintics</li> <li>• Antiscabies agents</li> <li>• Antiviral &amp; anti-fungal agents.</li> </ul>	Lecture Discussion Drug study/presentation	Short answers Objective type

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

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			Bronchodilators Broncho constrictors Antihistamines Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse		
VI	2	Describe Drugs used on Urinary System and nurse's responsibilities	<b>Drugs used on Urinary System</b> <b>Pharmacology of commonly used-</b> <ul style="list-style-type: none"> <li>• Diuretics and antidiuretics</li> <li>• Urinary antiseptics</li> <li>• Cholinergic and anticholinergics</li> <li>• Acidifiers and alkalanizeis</li> <li>• Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>	Lecture Discussion Drug study/presentation	Short' answers Objective type
VII	4	Describe Drugs used in De-addiction, emergency, deficiency of vitamins & rminerals, poisoning, for immunization and immuno suppression and nurse's responsibilities	<b>Miscellaneous</b> <ul style="list-style-type: none"> <li>• Drugs used in de-addiction</li> <li>• Drugs used in CPR and emergency</li> <li>• Vitamins and minerals</li> <li>• Immunosuppressant</li> <li>• Antidotes</li> <li>• Antivenom</li> <li>• Vaccines and sera</li> </ul>	Lecture Discussion Drug study / presentation	Short answers Objective type
VIII	1	Describe Drugs used on skin and mucous membranes and nurse's responsi-	<b>Drugs used on skin and mucous membranes</b> <ul style="list-style-type: none"> <li>• Topical applications for skin, eye, ear, nose and buccal cavity</li> </ul> Antipruritics	Lecture Discussion, Drug study / presentation	Short answers Objective Type

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		bilities	Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse		
IX	8	Describe Drugs used on Nervous System and nurses responsibilities	<b>Drugs acting on Nervous system</b> Basic & applied pharmacology of commonly used: /) Analgesics and Anaesthetics Analgesics - Non steroidal anti Inflammatory (NSAID) drugs Antipyretics Hypnotics and Sedatives - Opioids - Non-Opioids - Tranquilizers - General I & local anesthetics - Gases: oxygen, nitrous oxide, carbon dioxide Cholinergic and anti-cholinergic: Musclerelaxants Major tranquilizers Anti-psychotics Antidepressants Anticonvulsants. Adrenergics Noradregenis Mood stabilizers Acetylcholine Stimulants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	Lecture Discussion, Drug study / Presentation	Short answers Objective type
X	5	Describe Drugs used on Cardio-vascular System and nurse's respons-	<b>Cardiovascular drugs</b> <ul style="list-style-type: none"> <li>• Haematinics</li> <li>• Cardiotonics,</li> <li>• Anti anginals</li> <li>• Anti-hypertensives &amp; Vasodilators</li> <li>• Anti-arrhythmics</li> </ul>	Lecture Discussion Drug study Presentation	Short answers Objective Type


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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		bilities	<ul style="list-style-type: none"> <li>• Plasma expanders</li> <li>• Coagulants &amp; anticoagulants</li> <li>• Antiplatelets &amp; thrombolytics</li> <li>• Hypolipidemics</li> </ul> Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity role of nurse		
XI	4	Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities	<b>Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy</b> <ul style="list-style-type: none"> <li>• Insulins &amp; Oral hypoglycemics</li> <li>• Thyroid supplements and suppressants</li> <li>• Steroids, Anabolics</li> <li>• Uterine stimulants and relaxants</li> <li>• Oral contraceptives</li> <li>• Other estrogen-progestrone preparations</li> <li>• Corticotrophine &amp; Gonadotropines</li> <li>• Adrenaline.</li> <li>• Prostaglandins -</li> <li>• Calcitonins</li> <li>• Calcium salts</li> <li>• Calcium regulators</li> </ul> Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	Lecture Discussion Drug study / presentation	Short answers Objective type
XII	6	Demonstrate awareness of the common drugs used in alternative system of medicine	<b>Introduction to Drugs used in alternative systems of medicine:</b> <ul style="list-style-type: none"> <li>• Ayurveda, Homeopathy, Unani and Siddha etc</li> </ul>	Lecture Discussion Observational Visits	Short answers Objective type

  
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**Prescribed Internal assessment weightage:**

**Internal Assessment : Term Test - 15**  
**Assignment - 10**

  
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## PATHOLOGY AND GENETICS

**Placement: Second year**

**Time: Theory — 60 hours**

**Section A- Pathology**

**Pathology: 40 hrs (Theory 30 and Practical 10)**

### Course Description:

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

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assesmer methods
	T	P				
I	5		Define the common terms used in pathology. Appreciate the deviations from normal to abnormal structure and functions of the body system.	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Importance of the study of pathology</li> <li>• Definition of terms</li> <li>• Methods and techniques</li> <li>• Cellular and Tissue changes</li> <li>• Infiltration and regeneration</li> <li>• Inflammations and Infections</li> <li>• Wound healing</li> <li>• Vascular changes</li> <li>• Cellular growth, Neoplasms</li> <li>• Normal and Cancer cell</li> <li>• Benign and Malignant growths</li> <li>• In situ carcinoma</li> </ul> Disturbances of fluid and electrolyte imbalance.	Lecture Discussion Explain using Charts	Short answer questions Objective type
II	14	5	Explain Pathological changes in disease conditions of various systems	<b>Special pathology</b> <ul style="list-style-type: none"> <li>• Pathological changes in disease conditions of various systems:                             <ul style="list-style-type: none"> <li>• Respiratory tract                                     <ul style="list-style-type: none"> <li>- Tuberculosis, Bronchitis, Pleural effusion and pneumonia,</li> <li>- Lung abscess, emphysema, bronchiectasis, Bronchial asthma, Chronic obstructive Pulmonary disease &amp; tumours</li> </ul> </li> </ul> </li> </ul>	Lecture Discussion Explain using Charts, slides, specimen, X-rays and Scans Visit to Pathology lab, endoscopy unit and OT	Short answer Objective type

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assesmer methods
	T	P				
				Cardiovascular system Pericardial effusion - Rheumatic heart disease - Infective endocarditis, atherosclerosis, - Ischemia, infarction & aneurysm Gastro Intestinal Tract - Peptic ulcer, typhoid - Carcinoma of GI tract - buccal, Esophageal, - Gastric & intestinal Liver, Gall bladder & pancreas - Hepatitis, Chronic liver abscess, cirrhosis - Tumours of liver, gall bladder and pancreas, - Cholecystitis - Kidneys & Urinary tract - Glomerulonephritis, pyelonephritis - Calculi, renal failure, renal carcinoma & cystitis - Male genital systems Cryptorchidism testicular atrophy - Prostatic hyperplasia, Carcinoma Penis & prostate • Female genital system. Fibroids Carcinoma cervix and Endometri - Vesicular mole, choriocarcinoma - Ectopic gestation - Ovarian cyst & tumours Cancer Bre Central Nervous system Hydrocephalus, Meningitis, encephalitis, Vascular disorders thrombosis, embolism - Stroke, paraplegia, quadriplegia - Tumours, meningiomas		

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
				gliomas Metastatic tumour skeletal system Bone healing, osteoporosis, osteomyelitis Arthritis & tumours.		
III	6	3	Describe various laboratory tests in assessment and monitoring of disease conditions	<b>Clinical pathology</b> Various blood and bone marrow tests in assessment and monitoring of disease conditions Hemoglobin .RBC. White cell & platelet counts Bleeding time, clotting time and prothrombin time - Blood grouping and cross matching - Blood chemistry Blood culture - Serological and immunological tests - Other blood tests - Examination of Bone marrow - Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values	Lecture Discussion Demonstration Visit to Clinical Pathology & Biochemistry lab and Blood bank	Short answers Objective type
IV	4	1	Describe the laboratory tests for examination of body cavity fluids, transudates and exudates	<b>Examination of body cavity fluids, transudates and exudates</b> The laboratory tests used in CSF analysis Examination of other body cavity fluids, transudates and exudates sputum, wound discharge etc • Analysis of gastric and duodenal contents Analysis of semen-sperm count, motility and morphology and their importance in infertility Methods of collection of CSF and other cavity fluids specimen	Lecture Discussion Demonstration	Short answers Objective type

  
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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	T	P				
				for various clinical pathology, biochemistry, microbiology tests, inference and normal values		
V	1	1	Describe the laboratory tests for examination of Urine and faeces	<b>Urine and faeces</b> <ul style="list-style-type: none"> <li>• Urine</li> <li>- Physical characteristics</li> <li>- Analysis</li> </ul> Culture and sensitivity Faeces Characteristics Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. Methods of collection for various tests, inference and normal values	Lecture Discussion Demonstration	Short answers Objective type

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## Section- B Genetics

Placement: Second

Time: Theory — 20

hours

### Course Description:

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	Explain nature, principles and perspectives of heredity	<b>Introduction:</b> <ul style="list-style-type: none"><li>• Practical application of genetics in Nursing</li><li>• Impact of genetic condition on families</li><li>• Review of cellular division mitosis and meiosis.</li><li>• Characteristics and structure of genes</li><li>• Chromosomes — sex determination</li><li>• Chromosomal aberrations Patterns of inheritance</li></ul> Mendelian theory of inheritance Multiple alleles and blood groups Sex linked inheritance Mechanism of inheritance Errors in transmission (Mutation)	Lecture Discussion Explain using charts, slides	Short answers Objective type
II	4	Explain Maternal, prenatal and genetic influences on development of defects and diseases	<b>Maternal, prenatal and genetic influences on development of defects and diseases</b> <ul style="list-style-type: none"><li>• Conditions affecting the mother: genetic and infections</li><li>• Consanguinity atopy</li><li>• Prenatal nutrition and food allergies.</li><li>• Maternal Age</li><li>• Maternal drug therapy</li><li>• Prenatal testing and diagnosis</li><li>• Effect of Radiation, drugs and chemicals</li><li>• Infertility</li><li>• Spontaneous abortion</li></ul>	Lecture Discussion Explain using charts, slides	Short answers Objective Type

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			Neural Tube Defects and the role of folic acid in lowering the risks Down syndrome (Trisomy 21)		
III	3	Explain the screening methods for genetic defects and diseases in neonates and children	<b>Genetic testing in the neonates and children</b> <ul style="list-style-type: none"> <li>• Screening for</li> <li>- Congenital abnormalities</li> <li>- Developmental delay</li> <li>- Dysmorphism</li> </ul>	Lecture Discussion Explain using charts, slides	Short Answers Objective type
IV	3	Identify genetic disorders in adolescents and adults	<b>Genetic conditions of adolescents and adults</b> <ul style="list-style-type: none"> <li>• Cancer genetics — Familial Cancer</li> <li>• Inborn errors of metabolism</li> <li>• Blood group alleles and haematological disorder</li> <li>• Genetic haemochromatosis</li> <li>• Huntington's disease</li> <li>• Mental illness</li> </ul>	Lecture Discussion Explain using charts, slides	Short answers Objective Type
V	6	Describe the role of nurse in genetic services and counselling	<b>Services related to Genetics</b> <ul style="list-style-type: none"> <li>• Genetic testing</li> <li>• Human genome project</li> <li>• Gene therapy</li> <li>• The Eugenics movement</li> <li>• Genetic Counselling</li> </ul> Legal and Ethical issues Role of nurse	Lecture Discussion	Short answers Objective Type

**Prescribed Internal Assessment Weightage:**

**Internal Assessment : Term Test - 15**  
**Assignment - 10**

  
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## NURSING RESEARCH AND STATISTICS


**Placement: Fourth year  
Internship**

**Time: Theory - 50 hours  
Practical - 45 hours**

### Course Description:

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	5	Describe the concept of research, terms, need and areas of research in nursing.  Explain the steps of research process.	<b>Research and research process</b> <ul style="list-style-type: none"> <li>• Introduction and need for nursing research</li> <li>• Definition of Research &amp; nursing research</li> <li>• Steps of scientific method</li> <li>• Characteristics of good research</li> <li>• Steps of Research process-overview</li> </ul>	Lecture Discussion Narrate steps of research process followed from examples of published studies	Short answer Objective type
II	4	Identify and state the research problem and objectives	<b>Research Problem Question</b> <ul style="list-style-type: none"> <li>• Identification of problem area</li> <li>• Problem statement</li> <li>• Criteria of a good research problem.</li> <li>• Writing objectives</li> </ul>	Lecture Discussion Exercise on writing statement of problem and objectives	Short answer Objective type
III	4	Review the related literature	<b>Review of Literature</b> <ul style="list-style-type: none"> <li>• Location</li> <li>• Sources</li> <li>• On line search; CINHALL, COCHRANE etc</li> <li>• Purposes</li> <li>• Method of review</li> </ul>	Lecture Discussion Exercise on reviewing one research report/ article for a selected research problem. Prepare annotated bibliography	Short answer Objective type
IV	6	Describe the research approaches and designs	<b>Research approaches anti designs:</b> <ul style="list-style-type: none"> <li>• Historical, survey and experimental</li> <li>• Qualitative and Quantitative designs</li> </ul>	Lecture Discussion Explain types of research approaches used from examples of published and unpublished research	Short answer Objective type

  
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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
				studies with rationale.	
V	8	Explain the sampling process Describe the methods of data collection	<b>Sampling and data collection:</b> <ul style="list-style-type: none"> <li>• Definition of Population, Sample, Sampling criteria, factors influencing</li> <li>• sampling process, types of sampling techniques.</li> <li>• Data- why, what, from whom, when and where to collect.</li> <li>• Data collection methods and instruments: Methods of data collection Questioning, interviewing Observations, record analysis and measurement Types of instruments Validity &amp; Reliability of the Instrument Pilot study Data collection procedure</li> </ul>	Lecture Discussion Reading Conduct assignment on examples of data collection tools. Preparation of sample data collection tool group research project	Short answer Objective type
VI	4	Analyze, Interpret and summarize the research data	<b>Analysis of data:</b> Compilation, Tabulation, classification, summarization, presentation, interpretation of data	Lecture Discussion Preparation of sample tables.	Short answer Objective type
VII	15	Explain the use of statistics, scales of measurement and graphical presentation of data Describe the measures of central tendency and variability and methods of correlation.	<b>Introduction to statistics:</b> <ul style="list-style-type: none"> <li>• Definition, use of statistics, scales of measurement.</li> <li>• Frequency distribution and graphical presentation of data</li> <li>• Mean, Median, Mode, Standard deviation</li> <li>• Normal Probability and tests of significance</li> <li>• Co-efficient of correlation.</li> <li>• Statistical packages and its application</li> </ul>	Lecture Discussion Practice on graphical presentations Practice on computation of measures of central tendency, variability & correlation	Short answer Objective type
VIII	4	Communicate and utilize the research findings.	<b>Communication and utilization of Research:</b> <ul style="list-style-type: none"> <li>• Communication of research findings</li> <li>• Verbal report</li> <li>• Writing research report</li> <li>• Writing scientific article/paper</li> </ul>	Lecture, Discussion Read/Presentations of sample published / unpublished research report. Writing group research project	Short answer Objective type Oral presentation Assessment of group research Project.



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Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			<ul style="list-style-type: none"> <li>- Critical review of published research</li> <li>- Utilization of research findings</li> </ul>		

**Prescribed Weightage for Internal Assessment:**

***Internal Assessment : Term Test - 30***  
***Research Project -20***



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## Nursing Research & Statistics

### **Recommended Books:**

- Polit – Nursing Research ,2007,LWW  
Polit – Essentials of Nursing Research ,2009,LWW  
Basvanthappa – Nursing Research, Jaypee Publications

### **Reference Books:**

- Kothari – Research Methodology,2007,Newage Publishers  
Jagadeesh – Bio Medical Research, 2009, WoltersKluwer.  
Macnee – Understanding Nursing Research,2007,LWW  
Burns – Practice of Nursing Research ,2009,Elsevier  
Plitcha – Statistics for Nursing & allied Health Sciences, Lippincott.  
Munro – Statistical Method for Health care Research ,2006  
Stubert – Qualitative Research in nursing , 2010, LWW.



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## MANAGEMENT OF NURSING SERVICES AND EDUCATION

**Placement: Fourth year**

**Hours- 90 Hours**

**Theory: 60 hours**

**Practical: 30 hours**

### Course Description:

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

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

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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment method
	T	P				
				Review Technique		
				(PERT), Bench marking, Activity Plan (Gantt Chart),		
III	8	20	Describe the Management of nursing services in the hospital and Community	<b>Management of nursing services in the hospital and Community:</b> <ul style="list-style-type: none"> <li>• Planning: Hospital and patients care units including ward management Emergency and disaster management</li> <li>• Human resource management: Recruiting, selecting, deployment, retaining, promoting, superannuation etc</li> <li>• Categories of nursing personnel including job description of all levels</li> <li>• Patient/population classification systems Patients/population assignment and Nursing care responsibilities</li> <li>• Staff development and welfare Budgeting: proposal, projecting requirements for staff, equipments and supplies for 1-hospital and patient care units</li> <li>• Emergency and disaster management Material Management; procurement, inventory</li> </ul>	Lecture Discussion Demonstration Simulated Exercises Case studies Supervised practice in ward- writing indents, preparing duty roaster, ward supervision Assignment on duties and responsibilities of ward sister Writing report	Essay type Short answers Assessment of problem solving exercises, Assessment of the assignments Performance evaluation by ward sister with rating scale


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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment method
	T	P				
				<p>control, auditing and maintenance in Hospital and patient care units</p> <ul style="list-style-type: none"> <li>• Emergency and disaster management</li> </ul> <p>Directing and leading: delegation, participatory management</p> <ul style="list-style-type: none"> <li>• Assignments, rotations, delegations</li> <li>• Supervision &amp; guidance</li> <li>• Implement Standards, policies, procedures and practices</li> <li>• Staff development and welfare</li> <li>• Maintenance of discipline</li> </ul> <p>Controlling / Evaluation:</p> <ul style="list-style-type: none"> <li>• Nursing Rounds/Visits, Nursing protocols, Manuals</li> </ul> <p>Quality Assurance Model, documentation - a Records and reports</p> <p>Performance appraisal</p>		
IV	10		Describe the concepts, theories and techniques of Organizational behaviour and human relations	<p><b>Organizational behaviour and human relations:</b></p> <ul style="list-style-type: none"> <li>• Concepts and theories of organizational behaviours</li> <li>• Review of Channels of communication</li> <li>• Leadership styles</li> <li>• Review of Motivation; concepts and theories</li> <li>• Group dynamics</li> <li>• Techniques of Communication;</li> <li>• Interpersonal relationships</li> <li>• Human relations;</li> <li>• Public relations in context of nursing</li> <li>• Relations with professional associations and employee unions and Collective</li> </ul>	<p>Lecture Discussion</p> <p>Role plays</p> <p>Group games</p> <p>Self assessment</p> <p>Case discussion</p> <p>Practice Session</p>	<p>Essay type</p> <p>Short answers</p> <p>Assessment of problem solving</p>

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

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Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment method:
	T	P				
				implementation and evaluation, Clinical facilities Transport facilities Institutional Records and reports administrative, faculty, staff and students		
VII	15		Describe the ethical and legal responsibilities of a professional nurse. Explain the nursing practice standards	<b>Nursing as a profession:</b> <ul style="list-style-type: none"> <li>• Philosophy; nursing practice</li> <li>• Aims and objectives</li> <li>• Characteristics of a professional nurse</li> <li>• Regulatory bodies; INC. SNC Acts; - constitution, functions</li> <li>• Current trends and issues in Nursing</li> <li>Professional ethics</li> <li>• Code of ethics; INC,</li> <li>• Code of Professional conduct; INC, ICN</li> <li>Practice standards for Nursing; INC Consumer protection act</li> <li>Legal Aspects in Nursing</li> <li>• Legal terms related to practice; registration and licensing</li> <li>• Laws related to nursing practice; Breach and penalties</li> <li>• Malpractice and negligence</li> </ul> ICN	Lecture Discussion Case discussion Panel discussion Role plays Critical incidents Visit to INC/SNC	Short answers Assessment of critical incidents
VIII	3		Explain the various opportunities for professional advancement	<b>Professional Advancement:</b> Continuing education Career Opportunities Collective bargaining Membership with Professional organizations; National and International Participation in research activities Publications; Journals, Newspapers etc.	Lecture Discussion Review! Presentation of published articles	Short answers

  
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**Prescribed Weightage for Internal Assessment:**

<i>Internal Assessment</i>	:	<i>Term Test</i>	- 30
		<i>Assignment</i>	- 10
		<i>Observational visit</i>	- 10

**Nursing Management**

**Recommended Books:**

- 1.) Barrett – Ward Management and Teaching, 1995, Konark Publishing.
- 2.) Marquis – Leadership Roles & Management Functions in Nursing, 2008, LWW
- 3.) Basavanthappa – Nursing Administration, 2009, Jaypee.

**Reference Books:**

Huber – Nursing Management & Leadership ,2008,Elsevier  
Marriner – Guide to Nursing management ,2008,Elsevier  
Powell – Case Management,2009,LWW  
Ellis – Managing and coordinating Nursing,2009,WK



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