Syllabus

Basic B.Sc. Nursing



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Indian Nursing Council

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Philosophy

INC believes that:

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

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

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological and behavioural sciences, medicine and nursing.

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

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

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

Under graduate nursing education program prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

Aim

The aim of the undergraduate nursing program is to:

 Prepare graduates to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative services.

Prepare nurses who can make independent decisions in nursing situations, protect the rights
of and facilitate individuals and groups in pursuit of health, function in the hospital,
community nursing services, and conduct research studies in the areas of nursing practice.
They are also expected to assume the role of teacher, supervisor, and manager in a
clinical/public health setting.

Objectives

On completion of the four year B.Sc. Nursing program the graduate will be able to:

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

Admission Requirements

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

Higher Secondary school certificate Examination (12 years course),

Or

Senior School certificate Examination (10+2), pre-degree Examination (10+2)

Or

An equivalent with 12 years schooling from a recognized board or university with Science (Physics, Chemistry, Biology) and English with minimum of 50% aggregate marks (PCBE).

3. Candidate Shall be Medically Fit.

Entrance/Selection test

Selection of the candidates should be based on the merit of the entrance examination held by University or competent authority.

Duration

Duration of the course shall be four years including internship

Vacation

8 Weeks vacation shall be given in each year.

Duration

Course Duration = 4 Years

Weeks available per year = 52 weeks

Vacation = 8 weeks

Gazetted holidays = 3 weeks

Examination (Including preparatory) = 4 weeks

Available weeks = 37 weeks

Hours per week = 40

Practical = 30 hours per week

Theory = 10 hours per week

Internship practical = 48 hours per week

Hours available per academic year = 1480 (37 weeks x 40hours)

Course of instruction

First Year

* .	Theory (In hrs) (class and lab)	Practical (In hrs) (clinical)	(In hrs)
	60	1	
	60		······································
	60		
7,000	60		
	30		
	265+200	450	
	· · · · · · · · · · · · · · · · · · ·		
			
			50
			50
Total Hours	930	450	100
	Total Hours	(class and lab) 60 60 60 60 30 265+200 60 60 30 30 30 30 30 45 30	(class and lab) (clinical) 60 60 60 60 30 265+200 450 60 45 30

^{**} Optional

Second Year

	Subject	Theory (In hrs) (Class and Lab)	Practical (In hrs) (clinical)	In Hours
1.	Sociology	60		
2.	Pharmacology	45		
3. 4.	Pathology & Genetics	30 15		
5.	Medical-Surgical Nursing (Adult including geriatrics)-I	210	720	
6.	Community Health Nursing-I	90	135	
7.	Communication and Educational Technology	60+30		
8.	Library work /Self Study			50
9.	Co-curricular activities			35
	Total Hours	540	855	85
	Total hours =1480 hrs			

Third Year

(In hrs) Pr and Lab)	actical (In hrs) (clinical)	In Hours
120	270	
90	270	
90	270	
90	180	
		50
		50
390	990	100
-	390	390 990

Fourth Year

	Subject	Theory (In hrs) (Class and Lab)	Practical (In hrs) (clinical)	
1.	Midwifery and Obstetrical nursing		180	
2.	Community Health Nursing-II	90	135	
3.	Nursing Research & Statistics	45	*	
4.	Management of Nursing Services and education	60+30		
	Total Hours	225	315	
	Total hours = 540 Hrs			

Project work to be carried out during internship

Intern-Ship (Integrated Practice)

Subject 1Midwifery and Obstetrical nursing	Theory	Practical (In hrs)	In Weeks
		240	5
Treath Hursing-II		195	4
Medical Surgical Nursing (Adult and geriatric) Child Health		430	9
5. Mental Health		145	3
6. Research Project		95	2
	· · · · · · · · · · · · · · · · · · ·	45	1
Total: 1690 hours		1150	24

Note:

- 1. Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
- 2. Internship should be carried out as 8 hours per day @ 48 hours per week
- 3. Students during internship will be supervised by nursing teachers.
- 4. Fourth year final examination to be held only after completing internship.

Scheme of Examination

First Year

	~ • •	Assessment			
Subject		Hours	Internal	External	Total
Theor	У				
1.	Anatomy & Physiology	3	25	75	100
2.	Nutrition and Biochemistry	3	. 25	75	100
3.	Nursing Foundations	3	25	75	100
4.	Psychology	3	25	75	100
5.	Microbiology	3	`25	75	100
6.	English	3	25	75	100
7.	Introduction to Computer		25	75	100
Pract	ical and Viva Voce				
1.	Nursing Foundations		100	100	200

Second Year

	Subject	Assessment				
	Subject	Hours	Internal	External	Total	
Theory						
8.	Sociology	3	25	75	100	
9.	Medical-Surgical Nursing- I	3	25	75	100	
10.	Pharmacology, pathology, genetics	3	25	75	100	
11.	Community Health Nursing-I	3	25	75	100	
12.	Communication and Educational Technology	3	25	75	100	
Pract	ical & Viva Voce					
2.	Medical- Surgical Nursing- I		100	100	200	

Third year

-	Subject		Assessment				
			Internal	External	Total		
Theor	y			1			
13.	Medical-Surgical Nursing-II	3	25	75	100		
14.	Child Health Nursing	3	25	75	100		
15.	Mental Health Nursing	3	25	75	100		
Pract	ical & Viva Voce						
3.	Medical- Surgical Nursing- II		50	50	100		
4.	Child Health Nursing		50	50	100		
5.	Mental Health Nursing		50	50	100		

Fourth year

Subject	Assessment				
	Hours	Internal	External	Total	
Theory					
16. Midwifery and Obstetrical nursing	3	25	75	100	
17. Community Health Nursing-II	3	25	75	100	
18. Nursing Research & Statistics	3	25	75	100	
19. Management of Nursing Services and education	3	25	75	100	
Practical & Viva Voce					
6. Midwifery and Obstetrical nursing	3	50	50	100	
7. Community Health Nursing	3	50	50	100	

Note:

- Anatomy and Physiology-Question paper will consist of Section A Anatomy of 37 marks and B Physiology should be of 38 marks
- Nutrition and Biochemistry and -Question paper will consist of Section A Nutrition of 45 marks and Section B of Biochemistry of 30 marks
- 3. Pharmacology, genetics, pathology: Section A of Pharmacology with 38 marks, Section B of Pathology of 25 and Genetics with 12 marks
- Nursing Research & Statistics- Nursing Research should be of 50 marks and Statistics of 25 marks
- 5. Minimum pass marks shall be 40% for English only
- 6. Theory and Practical exams for Introduction to computer to be conducted as College exam and marks to be sent to the University for inclusion in the marks sheet.
- 7. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
- 8. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
- 9. A candidate must have 100% attendance in each of the practical areas before award of degree
- 10. A candidate has to pass in theory and practical exam separately in each of the paper.
- 11. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and practical).
- 12. Maximum number of attempts permitted for each paper is 3 including first attempt
- 13. A candidate failing in more then two subjects will not be promoted to the next year.

- 14. Candidate shall not be admitted to the subsequent higher examination unless the candidate has passed the previous examination.
- 15. The maximum period to complete the course successfully should not exceed 8 years
- 16. Maximum number of candidates for practical examination should not exceed 20 per day.
- 17. All practical examinations must be held in the respective clinical areas.
- 18. One internal and One external examiners should jointly conduct practical examination for each student
- 19. An examiner should be a lecturer or above in a college of nursing with M.Sc (N) in concerned subject and minimum of 3 years of teaching experience. To be an examiner for nursing foundations course faculty having M.Sc (N) with any specialty shall be considered.

English

Placement - First Year

Time: Theory - 60 hours

Course Description: The Course is designed to enable students to enhance ability to comprehend spoke and written English (and use English) required for effective communication in their professional wor Students will practice their skills in verbal and written English during clinical and classroom experiences.

Uni	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
ī	10	Speak and	Review of Grammar	Demonstrate use	 Objective
		write	Remedial study of Grammar	of dictionary	Type
		grammatically	Building Vocabulary	Class-room	 Fill in the
		correct	• Phonetics	conversation	blanks
		English	Public Speaking	• Exercise on use of	 Para
			. done opening	Grammar	phrasing
				Practice in public	
	ļ			speaking	
11	30	Develop	Read and comprehend prescribed	Exercise on:	 Short
	1	ability to read,	course books	□ Reading	Answers
1		understand	en de la companya de	 Summarizing 	 Essay Type
		and express		□ Comprehension	
		meaningfully,			
		the prescribed			
	1	text			
III	10	Develop	Various forms of composition	Exercises on	Assessmen
	1	writing skills	□ Letter writing	writing	of the skills
1 .			□ Note taking	□ Letter writing	based on th
.			☐ Precis writing	□ Nurses Notes	check list
Ì			□ Nurses notes	□ Precis	
			☐ Anecdotal records	□ Diary	
			□ Diary writing	□ Anecdote	
			Reports on health problems etc.	☐ Health problems	
1			□ Resume/CV	□ Story writing	
				□ Resume/CV	
1				Essay writing	
				□ Discussion on	
İ	1			written reports/	
				documents	
I/	6	Develop skill	Spoken English	• Exercise on:	Assessmer
		in spoken	□ Oral report	□ Debating	of the skil
. .		English	□ Discussion	☐ Participating in	based on t
-	1		□ Debate	Seminar, panel,	check list
			☐ Telephonic conversation	symposium	
				□ Telephonic	
				conversation	

parties,	Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning	1
N _V	·V	4	Develop skill in listening compre- hension	Listening Comprehension Media, audio, video, speeches etc.	Activities Exercise on: Listening to audio, video tapes and identify the key points	Assessment of the skills based on the check list

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Anatomy

Placement- First Year

Time: Theory - 60 hours

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

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
1	5	Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands	Introduction to Anatomical terms organization of the human body Human Cell structure Tissues – Definition, Types, characteristics, classification, location, functions and formation Membranes and glands – classification and structure Alterations in disease Applications and implications in nursing	Lecture discussion Explain using charts, microscopic slides, Skeleton & torso Demonstrate cells, types of tissues membranes and glands Record book	 Short answer questions Objective type
11	6	Describe the structure & function of bones and joints	The Skeletal System Bones- types, structure, Axial & Appendicular Skeleton, Bone formation and growth Description of bones Joints – classification and structure Alterations in disease Applications and implications in nursing	Lecture discussion Explain using charts, skeleton, loose bones, and joints Record book	Short answer questions Objective type
III	7	Describe the structure and function of muscles	The Muscular System Types and structure of muscles Muscle groups Alterations in disease Applications and implications in nursing	Lecture discussion Explain using chart, models and films Demonstrate muscular movements Record book	Short answer questions Objective type

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning	Assessment
IV	6	Describe the	The Nervous System	Activities	methods
		structure &	• Structure of neurologia & neurons	Lecture discussion	Short
		function of			answer questions
		nervous system		 Explain using models, charts, 	1 .
			 Structure of brain, spinal chord, cranial nerves, spinal nerves, peripheral nerves 	slides, specimens Record book	Objective type
		,	Autonomic Nervous System – sympathetic, parasympathetic		
		2	□ Structure, location	. 5	-
		· .	Alterations in disease		
			Applications and implications in		
			nursing		
V	6	Explain the	The Sensory Organs	• Lecture	~-
		structure &	Structure of skin, eye, ear, nose,	discussion	 Short answer
		functions of	tongue, (Auditory and olfactory	• Explain using	questions
		sensory organs	apparatus)	models, charts,	Objective
			Alterations in disease	slides, specimens	type
		·.	Applications and implications in nursing	Record book	
/I	7	Describe the	Circulatory and lymphatic system	• Lecture	- 01
		structure &	The Circulatory System	discussion	Short answer
		function of circulatory and	□ Blood – Microscopic structure	• Explain using	questions
		lymphatic	□ Structure of Heart	models, charts,	 Objective
	[system	☐ Structure of blood vessels —	slides,	type
	1		Arterial & Venous System,	specimens	
1			□ Circulation: systemic,	Record book	
			pulmonary, coronary		
			Lymphatic system		
-	1.	,	 Lymphatic vessels and lymph 		
			☐ Lymphatic tissues		
ı			- Thymus gland		
			- Lymph nodes		
			- Spleen		
			- Lymphatic nodules		
			Alterations in disease		
			Applications and implications in nursing		

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
VII	5	Describe the structure & functions of respiratory system	The Respiratory System Structure of the organs of respiration Muscles of respiration: Intercostals and Diaphragm Alterations in disease Applications and implications in nursing	Lecture discussion Explain using models, torso, charts, slides, specimens Record book	Short answer questions Objective type
VIII	6	Describe the structure & functions of digestive system	The Digestive System • Structure of Alimentary tract and accessory organs of digestion Alterations in disease Applications and implications in nursing	Lecture discussion Explain using models, torso, charts, slides, specimens Record book	Short answer questions Objective type
IX	4	Describe the structure & functions of excretory system	The Excretory System (Urinary) Structure of organs of urinary System: Kidney, ureters, urinary bladder, urethra, structure of skin Alterations in disease Applications and implications in nursing	Lecture discussion Explain using models, torso, charts, slides, specimens Record book	 Short answer questions Objective type
x	4	Describe the structure & functions of endocrine system	The Endocrine System • Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands Alterations in disease Applications and implications in nursing	Lecture discussion Explain using models, Torso, charts, slides, specimens Record book	 Short answer questions Objective type
XI	4	Describe the structure and functions of reproductive system	The Reproductive system including breast Structure of female reproductive organs Structure of male reproductive organs. Structure of breast Alterations in disease Applications and implications in nursing	Lecture discussion Explain using models, Torso, charts, slides, specimens Record book	 Short answer questions Objective type

Physiology

Placement - First Year

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.

Time: Theory - 60 Hours

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	 Describe the physiology of cell, tissues, membranes and glands 	Cell Physiology Tissue-formation, repair Membranes & glands – functions Alterations in disease Applications and implications in nursing	Lecture discussion	• Short answer questions • Objective type
II	4	Describe the bone formation and growth and movements of skeleton system	Skeletal System Bone formation & growth Bones – Functions and movements of bones of axial and appendicular skeleton, bone healing Joints and joint movement Alterations in disease Applications and implications in nursing	Lecture discussion Explain using Charts, models and films Demonstration of joint movements	 Short answer questions Objective type
III	4	Describe the muscle movements and tone and demonstrate muscle contraction and tone	Muscular System • Muscle movements, Muscle tone, Physiology of muscle contraction, levels and maintenance of posture Alterations in disease Applications and implications in nursing	Lecture discussion Explain using Charts, models slides, specimen and films Demonstration of muscle movements, tone and contraction	 Short answer questions Objective type
IV .	7	 Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves Demonstrate reflex action and stimulus 	Nervous System • Functions of Neurolgia & 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	Lecture discussion Explain using, Charts, models and films Demonstrate nerve stimulus, reflex action, reflexes	Short answer questions Objective type

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			Autonomic functions— Pain: somatic, visceral, and referred		
			 Autonomic learning and biofeedback 		# ***
<u>.</u>			Alternations in disease Applications and implications in nursing		
V	8	Describe the	Circulatory System	Lecture discussion	• Short
		physiology of blood and	 Blood formation, composition, 	• Explain using	answer
		functions of	blood groups, blood coagulation	Charts, films	questions
		Heart	Hemoglobin: Structure, Synthesis and breakdown, Variation of	 Demonstration of 	 Objective
		Demonstrate	molecules, estimation	Blood cell count,	type
		blood cell	Functions of Heart, Conduction,	coagulation,	•
1		count.	Cardiac cycle, circulation—	grouping, Haemoglobin	
		coagulation,	Principles, Control, factors	estimation. Heart	
	!	grouping,	influencing BP and Pulse	conduction	
		Hb: BP and	Alternations in disease	system.	
		Pulse	Applications and implications in	Measurement of	
ŀ]	monitoring	nursing	pulse, BP	·
VI	6	Describe the	The Respiratory System	Lecture discussion	Short
		physiology	Functions of respiratory organs	Explain using	answer
		and	Physiology of respiration	Charts, films	questions
	l	mechanisms	Pulmonary ventilation, Volume	Demonstration of	Objective
		of respiration	Mechanics of respiration	spirometry	type
		 Demonstrates 	Gaseous exchange in lungs	•	''
		spirometry	Carriage of oxygen & carbon-dioxide		
			Exchange of gases in tissues		-
	1		Regulation of respiration.		
	1		Alterations in disease		
			Applications and implications in nursing		
VII	6	 Describes the 	The Digestive System	• Lecture discussion	Short
		physiology of	Functions of organs of digestive	Explain using	answer
		digestive	tract. Movements of alimentary	Charts, Films	questions
		system	tract, Digestion in mouth, stomach,		Objective
		Demonstrates	small intestines, Large intestines,	3	type
		BMR	Absorption of food. Functions of		
			liver, gall bladder and pancreas		
			Metabolism of carbohydrates,		
VIII	5	- D!!	protein and fat		
v III)	Describe the	The Excretory System	Lecture discussion	Short
-		physiology of	• Functions of kidneys, ureters,	• Explain using	answer
L	L	excretory	urinary bladder & urethra	Charts, films	questions

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		system	Composition of urine		Objective
			Mechanism of urine formation		type
			Functions of skin		1
	-		Regulation of body temperature		
		1	Fluid and electrolyte balance.		
			Alterations in disease		
			Applications and implications in		
137			nursing		
IX	4	• Describe the	The Sensory Organs	• Lecture discussion	Short
		physiology of	• Functions of skin, eye, ear, nose,	Explain using	answer
		sensory	tongue,	Charts, films	questions
		organs	Alterations in disease		 Objective
х	5		Applications and implications in nursin		type
^	3	• Describe the	The Endocrine System	 Lecture discussion 	Short
		physiology of	• Functions of Pituitary, pineal body,	 Explain using 	answer
	1	endocrine	thymus, Thyroid, parathyroid,	Charts, films	questions
		glands	pancreas, Suprarenal, Placenta and	 Demonstration of 	 Objective
			ovaries & Testes	BMR	type
			Alterations in disease		
			Applications and implications in		
ΧI	5	Describe the	nursing		
1		physiology of	The Reproductive System	 Lecture discussion 	• Short
	-1	male and	Reproduction of cells – DNA, Mitoria Management – DNA,	• Explain using	answer
		female	Mitosis, Meosis, spermatogenesis, oogenesis.	Charts, films,	questions
		reproductive	Functions of female reproductive	models,	 Objective
		system	organs; Functions of breast, Female	specimens	type
		-, -, -, -, -, -, -, -, -, -, -, -, -, -	sexual cycle.		
	. [Introduction to embryology.		.*
- 1			Functions of male reproductive		
1			organs, Male function in		
			reproduction, Male fertility system,		
- 1			Alterations in disease		
1	.		Applications and implications in		
1	İ		nursing		
XII	2	Describe the	Lymphatic and Immunological	Lecture discussion	CI
.	1	physiology of	System	Explain using	• Short
- 1		Lymphatic	• Circulation of lymph		answer
		and Immuno-	Immunity	Charts, films	questions
1		logical	□ Formation of T-cells and B cells		Objective
	.	System	Types of Immune agrees		type
			☐ Types of Immune response☐ Antigens		
			□ Cytokines		
			□ Antibodies		
			□ Aiitibodies		

Nutrition

Placement: First Year

Time: 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.

		me	Learning			
Unit		rs)	Objectives	Content	Teaching Learning	Evaluation
I	Th. 4	Pr.	Describe the relationship between nutrition & Health.	Introduction Nutrition: History Concepts Role of nutrition in maintaining health Nutritional problems in India National nutritional policy Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc Role of food and its medicinal value Classification of foods Food standards Elements of nutrition: macro	Activities • Lecture Discussion • Explaining using charts • Panel discussion	Short answers Objective type
II	2		Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates	and micro Calorie, BMR Carbohydrates Classification Caloric value Recommended daily	Lecture Discussion Explaining using charts	 Short answers Objective type

		ime	Learning			T
Unit	Th.	Irs) Pr.	Objectives	Content	Teaching Learning Activities	Evaluation
III	2		Describe the classification; functions, sources and recommended daily allowances (RDA) of Fats	 Dietary sources. Functions. Digestion, absorption and storage, metabolism Malnutrition: Deficiencies and Over consumption 	Lecture Discussion Explaining using charts	Short answers Objective type
IV	2		Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins	Proteins Classification Caloric value Recommended daily allowances Dietary sources. Functions. Digestion, absorption, metabolism and storage Malnutrition: Deficiencies and Over consumption	Lecture Discussion Explaining using charts	Short answersObjective type
V	3		Describe the daily calorie requirement for different categories of people	 Energy Unit of Energy – Kcal Energy requirements of different categories of people. Measurements of energy. Body Mass Index (BMI) and basic metabolism Basal Metabolic Rate (BMR) – determination and factors affecting 	Lecture Discussion Explaining using charts Exercise Demonstration	• Short answers • Objective type
	7		allowances (RDA) of Vitamins	Classification Recommended daily allowances Dietary sources. Functions. Absorption, synthesis, metabolism storage and excretion Deficiencies Hypervitaminosis	Lecture Discussion Explaining using charts	 Short answers Objective type

,	Time		Learning		Teaching Learning	
Unit		rs) Pr.	Objectives	Content	Activities	Evaluation
3/11	Th.	Pr.				
VII	4		Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals	Minerals Classification Recommended daily allowances Dietary sources. Functions. Absorption, synthesis, metabolism storage and excretion Deficiencies Over consumption and toxicity	 Lecture Discussion Explaining using charts 	 Short answers Objective type
VIII	3		Describe the sources, functions and requirements of Water & electrolytes	Water & electrolytes Water: Daily requirement, regulation of water metabolism, distribution of body water, Electrolytes: Types, sources, composition of body fluids Maintenance of fluid & electrolyte balance Over hydration, dehydration and water intoxication Electrolyte imbalances	Lecture Discussion Explaining using charts	Short answers Objective type
IX	5	15	Describe the Cookery rules and preservation of nutrients Prepare and serve simple beverages and different types of foods	Cookery rules and preservation of nutrients Principles, methods of cooking and serving Preservation of nutrients Safe Food handling-toxicity Storage of food Food preservation, food additives and its principles Prevention of food adulteration Act (PFA) Food standards Preparation of simple beverages and different types of food	Lecture Discussion Demonstration Practice session	Short answers Objective type Assessment of practice sessions
X	7	5	Describe and plan balanced diet for	Balanced diet Elements Food groups Recommended Daily	Lecture Discussion Explaining using charts	• Short answers • Objective type

Unit		Time (Hrs)	Learning	Content	Teaching Learning	
	Th.	Pr.	Objectives	Content	Activities	Evaluation
			different categories of people	Allowance Nutritive value of foods Calculation of balanced diet for different categories of people Planning menu Budgeting of food	Practice session Meal planning	• Exercise on menu planning
				Introduction to therapeutic diets: Naturopathy –Diet		
XI	4		Describe various national programmes related to nutrition Describe the role of nurse in assessment of nutritional status and nutrition education	Role of nurse in nutritional programmes National programmes related to nutrition Vitamin A deficiency programme National iodine deficiency disorders (IDD) programme Mid-day meal programme Integrated child development scheme (ICDS) National and International agencies working towards food/nutrition 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 with Slide /Film shows Demonstration of Assessment of nutritional status	 Short answers Objective type