


P. B. B.Sc. (Nursing) Revised Syllabus



Bharati Vidyapeeth Deemed to be University

College of Nursing

Sangli, Pune and Navi Mumbai


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PO Sr. No	Programme outcomes
	UG programme: Post Basic B.Sc Nursing
PO₁	Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients that contribute to health of individuals, families and communities.
PO₂	Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences
PO₃	Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country
PO₄	Demonstrate skills in communication and interpersonal relationship.
PO₅	Demonstrate leadership qualities and decision making abilities in various situations
PO₆	Demonstrate skills in teaching to individuals and groups in community health settings
PO₇	Demonstrate managerial skills in community health settings.
PO₈	Practice ethical values in their personal and professional life
PO₉	Participate in research activities and utilize research findings in improving nursing practice.

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COURSE Name and Placement	COURSE OUTCOMES	Programme Specific Objectives	Mapping of course outcome with PO and PSO
	Placement: First Year		
<u>NURSING FOUNDATION</u> Placement: Ist Year Hours Allotted: Theory : 45 Practical : 30	This course will help students to develop an understanding of the philosophy, objectives and responsibilities of nursing as a profession. The purpose of the course is to orient them to the current concepts in the practice of nursing and developments in the nursing profession. At the end of the course, the students will	1. Identify professional aspects of nursing 2. Explain theories of nursing 3. Identify ethical aspects of nursing profession 4. Utilize steps of nursing process 5. Identify the role of the nurse in various levels of health services 6. Appreciate the significance or quality assurance in nursing 7. Explain current trends in health and nursing	PO ₁ , PO ₅ , PO ₆ , PO ₉
<u>NUTRITION & DIETETICS</u> Placement: Ist Year Hours Allotted Theory : 30 Practical : 15	Course is designed to provide the students with a wide knowledge of dietetics in Indian setting so that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.	At the end of the course, the students will 1. Explain the principles and practices of nutrition and dietetics. 2. Plan therapeutic diets in different settings 3. Identify nutritional needs of different age groups and plan diet accordingly. 4. Prepare meals using different methods utilizing cookery rules.	PO ₁ , PO ₃ , PO ₄ , PO ₆
<u>MATERNAL NURSING</u> Placement: Ist Year Hours Allotted Theory : 60 Practical: 240	The course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire	At the end of the course, the student will be able to: 1. Describe the physiology of pregnancy, labour, and puerperium 2. Manage normal	PO ₁ , PO ₃ , PO ₄ , PO ₆ , PO ₈ , PO ₉

	<p>knowledge and to develop skill in rendering optimum nursing care to a child bearing mother in a hospital or in a community and help in the management of common gynaecological problems.</p>	<p>pregnancy, labour and puerperium</p> <ol style="list-style-type: none"> 3. Explain the physiology of lactation, and advice on management of breast feeding 4. Provide pre- and post operative nursing care in obstetric conditions 5. Identify and manage high risk pregnancy including appropriate referrals 6. Propagate the concept and motivate acceptance of family planning methods 7. Teach, guide and supervise auxiliary midwifery personnel. 	
<p><u>CHILD HEALTH NURSING</u></p> <p>Placement: Ist Year Hours Allotted Theory: 60 Practical: 240</p>	<p>This course is aimed at developing an understanding of the modern approach to child care, the principles of child health nursing and the common problems of neonates and children in health and sickness.</p>	<p>At the end of the course, the students will be able to:-</p> <ol style="list-style-type: none"> 1. Explain the modern concept of child care and the principles of child health nursing 2. Describe the normal growth and development of children in various age groups 3. Explain the physiological response of body to disease conditions in children 4. Identify the health needs and problems of neonates and children, plan and implement appropriate nursing interventions 5. Identify the various preventive, promotive and rehabilitative aspects of child care and apply them in providing nursing care to children in the hospital and in the community 	<p>PO1,PO2,PO3, PO4,PO5, PO6</p>

<p><u>MEDICAL – SURGICAL NURSING</u> Placement: Ist Year Hours Allotted Theory: 90 Practical: 270</p>	<p>purpose of this course is to widen the students' knowledge and develop proficiency in caring for patients with Medical Surgical problems. This course includes review of relevant anatomy, physiology and pathophysiology in Medical Surgical disorders and the nursing management of these conditions.</p>	<p>: At the end of the course, students will-</p> <ol style="list-style-type: none"> 1. Explain relevant Anatomy and Physiology of various systems of the body 2. Explain etiology, pathophysiology and manifestations of various disorders 3. Explain the actions, side-effects and nursing implications in administering drugs for various disorders 4. Discuss the recent advancement in the investigations, treatment and care of patients with Medical Surgical conditions 5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process 6. Assist the patients and their families in identifying & meeting their own health needs 7. Provide planned and incidental health education on various aspects related to disorder & relevant care 8. Appreciate the role of the nurse in the Medical Surgical health team 	<p>PO1,PO2,PO3, PO4,PO5, PO6,PO8</p>
<p><u>BIOCHEMISTRY AND BIOPHYSICS</u> Placement: Ist Year Hours Allotted Theory: 30 + 30</p>	<p>aim of teaching Biochemistry to nursing students is to enable them to understand, the chemical processes taking place in the human body in health</p>	<p>: At the end of the course, the students will</p> <ol style="list-style-type: none"> 1. Identify the basic principles of Biochemistry 2. Understand and grasp the basic outline of chemistry and properties 	<p>PO2,PO8,PO9</p>

	<p>and disease which in turn contributes towards quality patient care.</p> <p>broad goal of teaching Biophysics to nursing students is to enable them to understand the application of physics principles while providing nursing care to the patients.</p>	<p>of important biomolecules like glucose, urea etc</p> <p>3. Summarize the working of enzymes and their importance as diagnostic tools for the clinician</p> <p>4. Describe the mechanisms involved in maintenance of body fluids along with electrolytes</p> <p>5. Be able to understand the concepts of laboratory medicine, which involves learning about physiological levels of important biomolecules and the underlying cause of change in these levels in disease states.</p>	
<p><u>PSYCHOLOGY</u></p> <p>Placement: First Year Hours Allotted Theory: 60 Practical: 15</p>	<p>This course is designed to orient the students with the principles of psychology, and widen their knowledge of the fundamentals of human psychology. The course offers students an opportunity to understand the psychodynamics of patient's behavior and to apply theoretical concepts in practical settings.</p>	<p>the end of the course, the students will</p> <ol style="list-style-type: none"> 1. Apply principles of psychology while performing Nursing care of individual and families. 2. Understand herself and others 3. Analyze her own thought and behavior patterns. 4. Use psychological principles to improve her efficiency in nursing care. 5. Distinguish psychological processes during health and illness. 6. Plan Nursing Care with regard to psychological needs and concerns. 7. Participate in 	<p>PO1,PO2,PO3, PO4,PO5</p>

		psychological assessment of patients.	
<u>MICROBIOLOGY</u> PLACEMENT: FIRST YEAR Hours Allotted Theory: 60 Practical: 30	This course reorients the students to the fundamentals of Microbiology and its various sub – divisions. It provides opportunities to gain skill in handling and use of microscope for identifying various micro organisms. It also provides opportunities for safe handling of materials containing harmful bacteria and methods of destroying microorganisms.	At the end of the course, the student will 1. Identify common disease producing micro-organisms 2. Explain the basic principles of Microbiology and their significance in health and disease 3. Demonstrate skill in handling specimens 4. Explain various methods of disinfection and sterilization 5. Identify the role of the nurse in hospital infection control system	PO1,PO2,PO3
<u>ENGLISH</u> Placement: Ist Year Hours Allotted: Theory – 60	This course is designed to help the students to understand the usage of English language required for their professional work.	: After the course, the students will develop 1. Ability to speak and write grammatically correct English 2. Effective skill in reading and understanding the English language 3. Skill in reporting	PO3,PO4,PO5
	SECOND YEAR		
<u>SOCIOLOGY</u> Placement: IInd Year Time Allotted: Theory : 60 Hrs	This course is to reorient students to sociology related to community of social institutions in India and its relationship with health, illness and nursing.	At the end of the course, the student will - describe sociological concepts applicable to nursing - determine role of sociology in nursing as related to social institutes	PO1,PO2,PO3, PO4,PO5,PO7

		in India. - Develop positive attitudes towards individual family and community.	
COMMUNITY HEALTH NURSING Placement : IInd year Time Allotted Theory : 60 Hrs. Practical : 240 Hrs.	The course enables the students to acquire knowledge and understanding of the changing concepts of comprehensive community health nursing practice, the national health care delivery system and to participate in the delivery of community health nursing practice. This course also broadens the understanding in public health nursing administration, responsibility of nurse for early case finding, health assessment and health education based on principles of primary health care, Nursing process approach and comprehensive nursing care to the individual, family and community.	: At the end of the course the student will 1) Explain the concept of various factors contributing the health of individual family and community. 2) Explain and analyze health need of individual family and community based on factors contributing to health and illness 3) Describe national health care delivery system. 4) Describes epidemiological methods and principles of prevention and control of illness in the community. 5) Study implementation of national programmes and role of CHN in prevention and control of diseases. 6) Identify the role of personnel working in the community health setup and appreciate the integrated approach to community health. 7) Plan the work of community health nurse and supervise the health workers. 8) Study concept of public health administration and role of nurse as manager and supervis	PO1,PO2,PO3, PO4,PO5,PO6, PO7,
MENTAL HEALTH NURSING Placement: IInd Year Time	This course enables the students to recognize and appreciate the causes, symptoms and process of abnormal	: At the end of course, the student will 1. Identify and describe the philosophy and principles of mental health nursing.	PO1-PO9

<p>Allotted Theory : 60 hrs. Practical : 240 hrs.</p>	<p>human behavior. It also introduces the student to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behavior. This course helps the student to learn principles of mental health and psychiatric nursing and to develop skills in the management of the mentally ill in hospital and community.</p>	<p>2. Describe the historical development of mental health and psychiatric nursing. 3. Classify mental disorders. 4. Develop skills in history taking and performing mental status examination. 5. Describe etiological factors, psychopathology, clinical features, diagnostic criteria and treatment methods used for mental disorders. 6. Manage the patients with various mental disorders. 7. Communicate therapeutically with patients and their families. 8. Identify role of the nurse in preventive psychiatry. 9. Identify the legal aspects in practice of mental health and psychiatric nursing.</p>	
<p>INTRODUCTION TO NURSING EDUCATION Placement– IInd Year Time allotted Theory : 60 hrs Practical : 75 hrs</p>	<p>This course introduces the students to Principles and concepts of Education, curriculum development and methods and media of teaching. It also describes the step the steps in curriculum development and implementation of educational programme in Nursing.</p>	<p>At the end of the course, the students will 1. Describe the philosophy and principles of education 2. Describe the process of a nursing curriculum development 3. Explain the teaching learning process 4. Develop the ability to teach, using various methods and media 5. Describe the process of assessment 6. Describe the administrative aspects of school of nursing, College of Nursing 7. Develop basic skills in counseling and guidance 8. Participate in planning</p>	<p>PO2,PO3,PO4, PO5,PO6</p>

		and organizing an in-service education programme	
INTRODUCTION TO NURSING SERVICE ADMINISTRATION Placement : IInd Year Time Allotted : Theory : 60 hours Practical : 180 hours	<p>This course is designated to give an opportunity to the students to gain an understanding of the principles of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of the need for professional leadership.</p>	<p>At the end of the course , the student will enable the students to:-</p> <ol style="list-style-type: none"> 1 Identify the Principles of administration. 2 Describe the Principles and techniques of supervision. 3 Explain the Principles and Methods of personnel management. 4 Explain the principles of Budgeting. 5 Organize and manage a Nursing Unit effectively. 6 Identify dynamics of Organizational behavior, styles and functions of effective leadership. 	PO1,PO3,PO4, PO5,PO6,PO7
INTRODUCTION TO NURSING RESEARCH STATISTICS Placement : II nd Year Time Allotted Theory : 45 hrs. Practical : 120 hrs.	<p>This course is designed to assist the student to develop an understanding of the basic concepts principles of research and scientific inquiry including the identification of problem and steps in research methodology. This course also introduces the basic concepts, and principles of Statistical methods, the use of computers in conducting research project in groups and use the finding in nursing practice.</p>	<p>: At the end of course student will</p> <ol style="list-style-type: none"> 1) Define the terms and concepts of nursing research. 2) Identify needs and scope of nursing research. 3) Be able to define research problems. 4) Locate and list sources of literature review including operational definition and conceptual framework. 5) Describe different approaches and research designs in nursing research. 6) Describe sample and sampling technique with special reference to survey method. 7) Develop tool for data collection. 8) Able to conduct pilot study to confirm reliability 	PO1,PO4,PO5, PO9

		<p>and validity of tool before data collection.</p> <p>9) To enumerate steps of data analysis and present data summary in tabular form.</p> <p>10) Use descriptive and co-relational statistics in data analysis.</p> <p>11) Conduct group project and write report.</p> <p>12) Use computer for research project</p>	
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Contents

Sr. No.	Contents	Page No.
1	Philosophy	1 3
2	Aim and Objectives	1 3
3	Eligibility Criteria	1 3
4	Course of Study	1 4
5	Scheme of Evaluation	1 5
6	Subjects for Examination	1 6
7	Examination Scheme	1 6
8	English	21
9	Nursing Foundation	24
10	Nutrition and Dietetics	28
11	Biochemistry	31
12	Biophysics	35
13	Psychology	39
14	Microbiology	44
15	Maternal Nursing	48
16	Child Health Nursing	54
17	Medical & Surgical Nursing	59
18	Sociology	66
19	Community Health Nursing	70
20	Mental Health Nursing	75
21	Nursing Education	80
22	Nursing Administration	84
23	Nursing Research	88
24	Statistics	92
25	Annexure I – Format for Practical Examination	95
26	Annexure II – Revised Formats for Practical Examination	105

Philosophy:

Bharati Vidyapeeth was established in May 1964 with the philosophy of contributing to the intellectual awakening and social transformation in different sphere including educational, social and cultural fields in India and more particularly in Maharashtra. Its activities have been geared to bring about all sides and welfare of different section in population including women, tribes and rural people. Bharati Vidyapeeth Nursing Colleges also function within the frame work of Bharati Vidyapeeth philosophy

AIM:

The aim of undergraduate Nursing programme at the post basic level is to upgrade the diploma nurses to:

1. Assume the responsibility as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative and rehabilitative services.
2. 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, manager in a clinical/public health settings.
3. They are also expected to assume role of teacher, supervisor and manager in a clinical/public health setting.

OBJECTIVES:

On Completion of Bachelor of Nursing Science (Post Basic) programme the graduate will able to:

1. Assess the health status; identify nursing needs, plan, implement and evaluate nursing care for patients/clients that contribute to health of individuals, families and communities.
2. Demonstrate competencies in techniques in nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.
3. Participate as a member of health team in promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision making abilities in various situations.
6. Demonstrate skills in teaching to individuals and groups in community health settings.
7. Demonstrate managerial skills in community health setting.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilizes research findings in improving nursing practice.
10. Recognize the need for continued learning for their personal and professional development.

ELIGIBILITY FOR ADMISSION:

1. The candidate should have passed Diploma in General nursing and Midwifery (Minimum of Three Year's Duration) from any school of Nursing recognized by Indian Nursing Council and State Nursing Council.
2. Should be registered with any State Nursing Council in India.
3. Admissions will be given on merit basis.
4. Candidate shall be medically fit.

COURSE DURATION: TWO YEARS

COURSE OF STUDY: FIRST YEAR:

<i>Sr. No.</i>	<i>Subject</i>	<i>Theory Hours</i>	<i>Lab Hours</i>	<i>Clinical Hours</i>	<i>Total Hours</i>
1	English* (Qualifying)	60	00	00	60
2	Nursing Foundation	60	00	00	60
3	Nutrition and Dietetics	30	15	00	45
4	Biochemistry and Biophysics	60	00	00	60
5	Psychology	60	15	00	75
6	Microbiology	60	30	00	90
7	Maternal Nursing	65	5	240	310

8	Child Health Nursing	60	10	240	310
9	Medical And Surgical Nursing	90	25	300	415
TOTAL		545	100	780	1425

* Indicates College level Examination

SECOND YEAR:

<i>Sr. No.</i>	<i>Subject</i>	<i>Theory Hours</i>	<i>Lab. Hours</i>	<i>Clinical Hours</i>	<i>Total Hours</i>
1	Sociology	60	00	00	60
2	Community Health Nursing	60	00	240	300
3	Mental Health Nursing	60	00	240	300
4	Introduction to Nursing Education	60	00	75	135
5	Introduction to Nursing Administration	60	00	180	240
6	Introduction to Nursing Research and Statistics	75	00	120	195
TOTAL		375	00	855	1230

SUBJECTWISE SUBDISTRIBUTION OF HOURS

FIRST YEAR:

<i>Sr. No.</i>	<i>Subject</i>	<i>Theory Hours</i>	<i>Laboratory Hours</i>	<i>Clinical Hours</i>	<i>Total Hours</i>
1	English* (Qualifying)	60	00	00	60
2	Nursing Foundation	60	00	00	60
3	Nutrition And Dietetics	30	15	00	45
4	Biochemistry	30	00	00	30
5	Biophysics	30	00	00	30
6	Psychology	60	15	00	75
7	Microbiology	60	30	00	90
8	Maternal Nursing	65	05	240	310
9	Child Health Nursing	60	10	240	310
10	Medical And Surgical Nursing	90	25	300	415
Total Hours		545	100	780	1425

*Indicates College Level Examination

SECOND YEAR:

<i>Sr. No.</i>	<i>Subject</i>	<i>Theory Hours</i>	<i>Laboratory Hours</i>	<i>Clinical Hours</i>	<i>Total Hours</i>
1	Sociology	60	00	00	60
2	Community Health Nursing	60	00	240	300
3	Mental Health Nursing	60	00	240	300
4	Introduction to Nursing Education	60	00	75	135
5	Introduction to Nursing Administration	60	00	180	240
6	Introduction to Nursing Research	40	00	120	160
7	Statistics	35	00	00	35
Total Hours		375	00	855	1230

EVALUATION SCHEME

1. Teaching of Anatomy, Physiology, Pharmacology and Pathology should be integrated with clinical subjects.
2. The candidate will be evaluated by:
 - *Formative Evaluation* – by way of assignments and conducting TWO (one at the end of each term) Internal Assessment Examinations by Examination Cell.
 - *Summative Evaluation* – by the University at the end of academic year. (After completion of Preliminary Examination).(Except Qualifying Subject-English)
3. The candidate has to score 50% marks in English, Group Project of Introduction to Nursing Research and Statistics and 35% marks as Internal Assessment in other subjects as prerequisite for admission to university Examination.
4. Minimum 80% attendance is mandatory for appearing for Prelim and University Examination. However, the candidate has to compensate 100% of his/her absence in practical/clinical before award of degree.
5. A candidate has to pass in theory and practical examination separately. If the candidate fails in theory or practical examination, he/she has **to re appear for both the examinations**.
6. The candidate shall not be permitted to appear for subsequent higher examination conducted by the University unless he/she has passed previous university examination.
7. Maximum number of candidates for practical examination may be as per University norms, however should not exceed 20 candidates per day.
8. All practical examinations must be held in the respective clinical areas.
9. One internal and one external examiner should jointly conduct practical examination for each candidate.
10. Minimum passing marks in all subjects are 50%.
11. For calculation of Internal Assessment Marks for Theory and Practical - 50% of Internal Assessment Marks from Assignments and 50 % from Examinations conducted in whole year shall be taken together as Internal Assessment.
12. While calculating Internal Assessment Marks, any fraction of marks shall be rounded off to higher complete number.
13. Appearing for Preliminary examination is prerequisite for eligibility to appear for final examination.
14. Norms laid down by Indian Nursing Council regarding permissible attempts for any examination shall be followed.

SUBJECTS FOR EXAMINATION

FIRST YEAR

❖ **Theory:**

1. English* (Qualifying)
2. Nursing Foundation
3. Nutrition and Dietetics
4. Biochemistry and Biophysics
5. Psychology
6. Microbiology
7. Maternal Nursing
8. Child Health Nursing
9. Medical and Surgical Nursing

❖ **Practical:**

1. Maternal Nursing
2. Child Health Nursing
3. Medical and Surgical Nursing

SECOND YEAR

❖ **Theory:**

1. Sociology
2. Community health Nursing
3. Mental Health Nursing
4. Introduction to Nursing Education
5. Introduction to Nursing Administration

6. Nursing Research and Statistics

❖ **Practical:**

1. Community health Nursing
2. Mental Health Nursing
3. Nursing Research and Statistics – Group Project*

*Indicates College Level Examination.

**EXAMINATION SCHEME
(COURSE- 75+25 SCHEME)**

FIRST YEAR: Theory and Practical:

<i>Sr. No.</i>	<i>Subject</i>	<i>Passing Head</i>	<i>Sub Heads</i>	<i>Marks Distribution</i>	<i>Max. Marks</i>	<i>Min. Marks</i>	<i>Distinction</i>
1	English*	I	Theory	75	100	40	75
			Internal Assessment	25			
2	Nursing Foundation	I	Theory	35	50	25	38
			Internal Assessment	15			
3	Nutrition and Dietetics	I	Theory	35	50	25	38
			Internal Assessment	15			
4	Biochemistry and Biophysics	I	Theory	75	100	50	75
			Internal assessment	25			
5	Psychology	I	Theory	75	100	50	75
			Internal Assessment	25			
6	Microbiology	I	Theory	75	100	50	75
			Internal Assessment	25			
7	Maternal Nursing	I	Theory	75	100	50	150
			Internal Assessment	25			
			Practical	50	100	50	
			Internal Assessment	50			
8	Child Health Nursing	I	Theory	75	100	50	150
			Internal Assessment	25			
			Practical	50	100	50	
			Internal Assessment	50			
9	Medical And Surgical Nursing	I	Theory	75	100	50	150
			Internal Assessment	25			
			Practical	50	100	50	
			Internal Assessment	50			

Note: *Indicates College level examination.

- The final examination of English will be conducted by the college at the time of Preliminary examination of other subjects and marks shall be send to university.
- For calculation of Internal Assessment of English, 50% marks of internal assessment will be calculated from marks obtained in terminal examination and 50% from marks obtained in the assignments.

SECOND YEAR: Theory and Practical:

<i>Sr. No.</i>	<i>Subject</i>	<i>Passing Head</i>	<i>Sub Heads</i>	<i>Marks Distribution</i>	<i>Max. Marks</i>	<i>Min. Marks</i>	<i>Distinction</i>
1	Sociology	I	Theory	75	100	50	75
			Internal Assessment	25			
2	Community Health Nursing	I	Theory	75	100	50	150
			Internal Assessment	25			
			Practical	50	100	50	
			Internal Assessment	50			
3	Mental Health Nursing	I	Theory	75	100	50	150
			Internal Assessment	25			
			Practical	50	100	50	
			Internal Assessment	50			
4	Introduction to Nursing Education	I	Theory	75	100	50	75
			Internal Assessment	25			
5	Introduction to Nursing Administration	I	Theory	75	100	50	75
			Internal Assessment	25			
6	Nursing Research and Statistics	I	Theory	75	100	50	75
			Internal Assessment	25			

Note:

- For the subject of Nursing Research and Statistics – Student shall prepare one Group Project, which will be evaluated by the guide at college level for 50 marks and evaluation report shall be send to the university.
- The college shall conduct Viva Voce on Group Project for 50 marks. Two faculty members shall be appointed as examiners for conducting Viva Voce – one as internal examiner and one as external examiner.
- Marks obtained for Group Project and Viva Voce shall be amalgamated and send to University.
- Passing in Group Project is prerequisite for eligibility to appear for final examination.

1st Year

Subject No. 1

ENGLISH

Total Hours: 60

Theory Hours: 60

AIM:

This course is designed to help the student understand and usage of English language required for their professional work.

OBJECTIVES:

At the end of course, the students shall develop:

1. Ability to speak and write grammatically correct English.
2. Effective skill in reading and understanding the English language.
3. Skill in reporting.

COURSE CONTENTS:

Unit I - English Grammar:

- Introduction to English grammar. Grammatical system.
- Application of Grammatical forms- Person, number, case, formation of verb, tense, Voice, narration, mood, sentence structures, Phrases, Clause, word formation & order of words.
- Language skill.

Unit II – Juncture:

- Stress swift. Rhythm. Accent and rhythm in connected speech. Intonation. Silent letters. Synonyms and Antonyms.

Unit III – Phonetics:

- Definition of phonetics and its meaning. Branches of phonetics. Speech mechanism. Phonetics transcription.
- Application of Writing.

Unit IV - Note-taking-some basic devices:

- Use of tables and graphic. Organizers. Development of a paragraph. Letter writing. Records and reports writing.
- Essay writing and other forms of Correspondence. Clinical case study, Case presentation. Steps of conversation skill. Discussion method.

Practical:

- The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language.
- Assignment on writing and conversation through participation in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communication.

ENGLISH

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (11 hours)	At the end of unit students are able to Knowledge: Understand functional aspect of English language. Skill: Apply grammatical forms while speaking and writing. Attitude: Speak and write grammatically correct English.	<ul style="list-style-type: none"> • Introduction to English Grammar (1 hour) • Application of Grammatical forms (2 hours) • Person, number, case, formation of verb, tenses (2 hrs) • Voice, narration, mood, sentence structures, (2 hours) • Phrase, Clause, word formation & order of words (2 hours) 	<ul style="list-style-type: none"> • Grammatical system (2 hours) 	
II (15 hours)	At the end of unit students are able to Knowledge: Understand and describe variety of speaking styles. Skill: Use more useful tools in language skills for extracting meaning or message from native speech. Attitude: Becomes familiar with basic speaking styles.	<ul style="list-style-type: none"> • Stress swift (2 hours) • Accent and rhythm in connected speech (2 hours) • Intonation (3 hours) 	<ul style="list-style-type: none"> • Juncture (1 hour) • Silent letters (2 hours) 	<ul style="list-style-type: none"> • Rhythm (2 hrs) • Synonyms and Antonyms (3 hours)
III (14 hours)	At the end of unit students are able to Knowledge: Understand and describe importance of basic phonology practice. Skill: Use speech mechanism and speak in different way. Improve systematic pronouncing or sound practice.	<ul style="list-style-type: none"> • Branches of phonetics • Speech mechanism • phonetics transcription (9 hours) 	<ul style="list-style-type: none"> • Definition of phonetics and its meaning.(2 hrs) 	<ul style="list-style-type: none"> • Difference between phonetics & phonology (3 hrs)
IV (20 hours)	At the end of unit students are able to Knowledge: Understand and recognize variety of writing methods and methodology. Skill: Develop writing skills. Attitude: Use writing skills in professional and personal life.	<ul style="list-style-type: none"> • Note-taking-some basic devices- • Use of tables and graphic organizers • Letter writing • Records and reports writing • Essay writing and other forms of Correspondence • Clinical case study. • Case presentation. (13 hours) 	<ul style="list-style-type: none"> • Steps of conversation skill • Discussion method (5 hrs) 	<ul style="list-style-type: none"> • Development of a Paragraph (2 hrs)

TEACHING STRATEGY:

Total teaching hours : 60 hours

Lecture : 60 hours

TEACHING METHODS:

- Lecture, Seminar, Symposium, Group Discussion.

ASSIGNMENTS:**Theory:**

Sr, No.	Assignments	No./Quantity	Marks Per Assignments	Total Marks
1	Tutorials	Four	15	60

- Two tutorials shall be conducted in each term.

AUDIO VISUAL AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

LIST OF RECOMMENDED BOOKS:

- Extracts from the book “How to win friends and influence people”-Dale Carnegie
- Living English Grammar and composition –Tickoo M.L & Subramaniam
- Enriching your competence in English-Thorat ,Valke
- English Grammar and Composition –Wren and Martin
- Career English for nurses –Selva Rose

Subject No. 2
NURSING FOUNDATION

Total Hours: 60

Theory Hours: 60

AIM:

This course will help the students to develop an understanding of philosophy, objectives and responsibilities of nursing as a profession. This course will give the students clear concepts in the practice of nursing and develop a skill in the nursing profession.

OBJECTIVES:

At the end of the course the students are able to:

1. Identify professional aspects of nursing.
2. Explain the theories of nursing
3. Identify the ethical aspects of the nursing profession
4. Utilize the steps of the nursing process.
5. Identify the role of the nurse in various levels of health services.
6. Appreciate the significance of quality assurance in nursing.
7. Explain the current trends in Health and Nursing.

COURSE CONTENTS:

Unit I - Development of Nursing as a Profession:

- Philosophy.
- Objectives and responsibilities of a graduate nurse. Trends influencing nursing practice. Expanded role of the nurse. Development of nursing education in India and trends in nursing education.
- Professional organizations, career planning. Code of ethics & professional conduct for nurses.

Unit II - Concepts of Health & Illness:

- Ethical, Legal and other issues.
- Risk Factors of health and illness. Concepts of health and illness, effects on the person. Stress and adaptation
- Wellness and Illness cycle. Health care concepts and nursing care concept
- Developmental concepts, needs, roles and problems of the developmental
- Stages of individual – newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age.

Unit III - Theory of Nursing Practice:

- Meta paradigm of nursing – characterized by four central concepts i.e. Nurse, Person (client/patient). Health and Environment.
- Florence Nightingale, Virginia Henderson, Betty Newman, Martha Rogers, Hildegard Paplaue.

Unit IV - Nursing Process:

- Definition, Purpose of nursing process. Assessment; tools for assessment, methods recording. Nursing Diagnosis
- Planning: techniques for planning care, types of care plans.
- Implementation: different approaches to care, organizations and implementation of care, recording.
- Evaluation: tools for evaluation, process of evaluation.

Unit V - Quality Assurance:

- Quality assurance: nursing standards, nursing audit, total quality Management
- Role of council and professional bodies in maintenance of standards

Unit VI - Approaches To Health Care:

- Primary health care concepts: Community oriented nursing, Palliative care. Holistic nursing, Hospice Nursing, Primary nursing, Day care.
- Family oriented nursing concepts: Problem oriented nursing, Progressive patient care. And Team nursing.

NURSING FOUNDATION

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (06 hours)	At the end of unit students are able to Knowledge: Understand and explain philosophy, objectives and responsibilities of graduate nurse and Know the professional organization and its working. Skill: Able to write philosophy and objectives of nursing programme. Attitude: Incorporate this knowledge in nursing practice.	<ul style="list-style-type: none"> Philosophy Objectives and responsibilities of a graduate nurse Expanded role of the nurse Code of ethics & professional conduct for nurses. (3 hours) 	<ul style="list-style-type: none"> Development of nursing education in India and trends in nursing education (1 hour) Professional organizations, career planning. (1 hour) 	<ul style="list-style-type: none"> Trends influencing nursing practice. (1 hour)
II (12 hours)	At the end of unit students are able to Knowledge: Understand and describe ethical legal and other issues in the profession and Know concepts of health and illness. Skill: Apply this knowledge in professional practice. Attitude: Incorporate this knowledge for providing optimum care to the client.	<ul style="list-style-type: none"> Ethical ,Legal and other issues Risk Factors of health and illness Concepts of health and illness, effects on the person Stress and adaptation Wellness and Illness cycle. (3 hours) 	<ul style="list-style-type: none"> Developmental concepts, needs, roles and problems of the developmental stages of individual – newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age. (8 hours) 	<ul style="list-style-type: none"> Health care concepts and nursing care concept (1 hour)
III (10 hours)	At the end of unit students are able to Knowledge: Understand paradigm of nursing bus. Skill: Write nursing process by applying nursing theories and provide care to the client. Attitude: Read different theories of nursing and implement in nursing process.	<ul style="list-style-type: none"> Meta paradigm of nursing – characterized by four central concepts i.e. Nurse, Person (client/patient). Health and Environment. (5 hours) Florence Nightingale, Virginia Henderson, Betty Newman, Martha Rogers, Pappalue.(5 hours) 		
IV (18 hours)	At the end of unit students are able to Knowledge: Define nursing process. and Understand & describe importance of nursing process. Skill: Apply nursing process in day today's work. Attitude: Recognizes importance of evaluation of nursing care.	<ul style="list-style-type: none"> Definition, Purpose of nursing process. (1 hour) Assessment; tools for assessment, methods recording (3 hours) Nursing Diagnosis (3 hours) Planning: techniques for planning care, types of care plans. (3 hours) 	<ul style="list-style-type: none"> Implementation: different approaches to care, organizations and Implementation of care, recording. (4 hours) Evaluation: tools for evaluation, process of evaluation. (4 hours) 	
V (06 hours)	At the end of unit students are able to Knowledge: Understand and describe important of quality assurance in nursing and role of a statutory bodies. Attitude: Maintains quality standards and contributing improving quality care.	<ul style="list-style-type: none"> Quality assurance: nursing standards, nursing audit, total quality Management (3 hours) 	<ul style="list-style-type: none"> Role of council and professional bodies in maintenance of standards. (3 hours) 	

<p>VI (8 hours)</p>	<p>At the end of unit students are able to Knowledge: Understand and describe various methods and approaches to nursing care. Skill: Apply this knowledge in selecting appropriate care to the client. Attitude: Incorporate this knowledge in professional practice.</p>	<ul style="list-style-type: none"> • Palliative care • holistic nursing • Hospice Nursing • Problem oriented nursing • Progressive patient care • Team nursing (4 hours) 	<ul style="list-style-type: none"> • Primary health care concepts: • Community oriented nursing. • primary nursing • Day care (3 hours) 	<ul style="list-style-type: none"> • Family oriented nursing concepts (1 hour)
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TEACHING STRATEGY:

Total teaching hours : 60 hours

Lectures: 60 hours

TEACHING METHODS:

- Lecture, Seminar, Symposium, Group Discussion.

ASSIGNMENTS:**Theory:**

Sr. No.	Assignment	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorials	Four	15	60

- Two tutorials shall be conducted in each term.

A.V. AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

LIST OF RECOMMENDED BOOKS:

- Barbara Kosler et al, 'Fundamentals of Nursing concepts and procedures', Addison Welsloy Publishing C., 13th Ed.
- Brown Ammy Francis, 'Medical Nursing', WB Saunders and Co, USA, 3rd Ed.
- Esther Mc Clain, 'Scientific Principles of Nursing, Current Technical Literature Publications, Bombay, 1st Ed.
- Potter and Perry, 'Fundamentals of Nursing concepts- process and practice', C.V.Mosby and Co, 3rd Ed, London, 1985.
- Virginia Henderson et al, 'Principles and Practices of Nursing', Mc Milan Pub Co, 6th Ed.
- Sr. Nancy, 'Principles and Practices of Nursing', Vol. I, N. R, Publishing Home, Indore, 4th Ed, 1984.
- Elbert et al, 'Scientific principles in Nursing', C.V. Mosby and Co USA, 8TH Ed 1974.
- Ann Marriner, 'The Nursing Process- A scientific Approach to Nursing care', C.V. Mosby and Co. 3rd Ed, 1979.
- Hoodmark Rohweden, 'Scientific foundation of Nursing', J. B Lippincot Co, Philadelphia, 3rd Ed, 1975.
- First aid Manual, The authorized manual of ST. John's Ambulance, Dorling Kindersly, London.
- Norman G.Kirby and Sliphen J Mather, Baillers Hand book of First Aid 7th Ed, All India Traveler Book Seller, Delhi.
- Lois Dakes, 'Illustration of Bandaging and First Aid', E and S Livingstone Ltd, Tevoit.

Subject No. 3
NUTRITION AND DIETETICS

Total Hours: 45

Theory Hours: 30

Lab. Hours: 15

AIM:

This course is designed to provide the students with a wide knowledge of dietetics in the Indian setting, that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.

OBJECTIVES:

At the end of the course, the students are able to:

1. Explain the principles and practices of nutrition and dietetics.
2. Plan therapeutic diets in the different settings.
3. Identify nutritional needs of different age group and plan diet accordingly.
4. Prepare meals using different methods utilizing cookery rules.

COURSE CONTENT:

Unit I - Introduction to Nutrition and Dietetics:

- Introduction to nutrition and dietetics
- Balanced diet, factors on which it depends. Factors to be considered in planning Guides available for planning.
- Food Hygiene, preparation and preservation Review of nutrients – micro & macro.

Unit II - Introduction to Diet Therapy:

- Introduction. Routine hospital diets.
- Therapeutic diet under each unit i.e. cardiovascular diseases, gastrointestinal diseases, renal disorders, Endocrine and metabolic disorders, Allergy, Infections and fevers, Pre and post operative stage, Deficiency diseases and malnutrition, overweight and underweight.

Unit III - Infant and Child Nutrition:

- Feeding of normal infants: factors to be considered in planning, Nutritional requirements, Factors to be considered in planning and nutritional requirement.
- Supplementary feeding of infants: Advantage and method of introduction. Weaning effects on mother and child. Psychology of infant and child feeding.
- Feeding the sick child. Diet in diseases of infancy and childhood.
- Deficiency – malnutrition, under nutrition, other nutrients deficiency.
- Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding School Lunch Programme, Advantages, Need in India.

Unit IV - Community Nutrition:

- Need for community nutrition programme.
- Nutritional needs for special groups: infant, child, adolescent, Pregnant and lactating mother and old people.
- Substitutes for non-vegetarian foods. Selection of cheap and nutritious foods. Nutrition education needs and methods- Methods of assessing nutritional status of individual / group / community. Current nutritional problems and national programmes (mid day meal etc.)

PRACTICAL:

I. Methods of cooking and cookery rules:

- Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat, multipurpose food snacks.
- Menu Plans.

II. Preparation of supplementary food for infants:

- Food for toddlers.
- Low cost nutritious dishes for vulnerable groups.
- Dietary case study of patient on special diet and planning of low cost dietary instructions for home adaptations.
- Planning of therapeutic diet.

NUTRITION AND DIETETICS

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (08 hours)	At the end of unit students are able to Knowledge: Understand and describe various types of diets and important of nutrition. Skill: Plan the diet in a various disease conditions. Attitude: Dietary hobbies of the clients.	<ul style="list-style-type: none"> Balanced diet, factors on which it depends. (1 hour) Review of nutrients – micro & macro. (3 hours) 	<ul style="list-style-type: none"> Factors to be considered in planning. (1 hour) Food Hygiene, preparation and preservation (1 hour) 	<ul style="list-style-type: none"> Introduction to nutrition and dietetics. (1 hour) Guides available for planning. (1 hour)
II (08 hours)	At the end of unit students are able to Knowledge: Know the important of therapeutic diet. Skill: Prepare therapeutic diet. Attitude: Appreciate cultural values.	Introduction: <ul style="list-style-type: none"> Therapeutic diet under each unit i.e. Cardiovascular diseases, Gastrointestinal diseases, Renal disorders, Endocrine and metabolic disorders, Allergy, Infections and fevers, Pre and post operative stage (4 hours) Deficiency diseases and malnutrition, overweight and underweight (3 hrs) 	<ul style="list-style-type: none"> Routine hospital diets. (1 hour) 	
III (08 hours)	At the end of unit students are able to Knowledge: Understand and describe nutritional requirements of children and feed them. Skill: Prepare various types of foods for children. Attitude: Appreciates likings and disliking of children.	<ul style="list-style-type: none"> Feeding of normal infants: factors to be considered in planning, Nutritional requirements. Supplementary feeding of infants: Advantage and method of introduction. Weaning effects on mother and child. Feeding the sick child. Diet in diseases of infancy and childhood. Deficiency – malnutrition, under nutrition, other nutrients deficiency. (6 hours) 	<ul style="list-style-type: none"> Psychology of infant and child feeding. Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding School Lunch Programme, Advantages, Need in India (1 hour) 	<ul style="list-style-type: none"> Feeding of premature infants, Factors to be considered in planning and nutritional requirement (1 hr)
IV (06 hours)	At the end of unit students are able to Knowledge: Understand and describe national feeding programmes and nutritional needs of special groups. Skill: Develop ability to teach individuals and families to prepare low cost nutritive foods. Attitude: Appreciates socio cultural and economic background of individual and families.	<ul style="list-style-type: none"> Need for community nutrition programme. Nutritional needs for special groups: infant, child, adolescent (1 hour) Pregnant and lactating mother and old people. (1 hour) Selection of cheap and nutritious foods. Nutrition education needs and methods. Current nutritional problems and national programmes (mid day meal etc.) (2 hour) 	<ul style="list-style-type: none"> Methods of assessing nutritional status of individual / group / community. (1 hour) 	<ul style="list-style-type: none"> Substitutes for non-vegetarian foods. (1 hour)

DISTRIBUTION OF LAB HOURS (Total Lab Hours 15)

I. Methods of cooking and cookery rules: 1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat, multipurpose food snacks. 2. Menu Plans.	7
II. Preparation of supplementary food for infants: 1. Food for toddlers. 2. Low cost nutritious dishes for vulnerable groups. 3. Dietary case study of patient on special diet and planning of low cost dietary instructions for home adaptations. 4. Planning of therapeutic diet.	8

TEACHING STRATEGY:

Total Teaching Hours: 45

Lecture: 30 Hours

Practical (Lab work):15 Hours

TEACHING METHODS:

- Lecture, Demonstration, Group Discussion, Simulation, Preparation of various therapeutic diets in the kitchen (Nutrition Lab.)

ASSIGNMENTS:

Theory and Practical:

Sr. No.	Assignment	No./Quantity	Marks Per Assignment	Total Marks
1	Preparation and Presentation of Therapeutic Diet (Group Work)	One	30	30
2	Tutorials	Two	15	30
Grand Total				60

Both the tutorial may be conducted in first term and preparation of therapeutic diet may be done in second term.

A. V. AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Simulated Kitchen, Black Board.

LIST OF RECOMMENDED BOOKS:

- Clinical dietetics and Nutrition –Antia and Philip
- Nutritive Value of Indian foods –Gopalan
- Krause’s food, Nutrition and Diet therapy, Mahan
- Nutrition and Diet therapy –Williams

Subject No. 4
BIOCHEMISTRY AND BIOPHYSICS

Total Hours: 60

Theory Hours: 60

SECTION 'A' - BIOCHEMISTRY

Total Hours: 30

Theory Hours: 30

AIM:

The broad goal of teaching biochemistry to nursing students is to enable them to understand, the chemical processes taking place in the human body in health and disease and this knowledge will help them to increase the quality of patient care.

OBJECTIVES:

At the end of the course, the students are able to:

1. Identify the basic principles of biochemistry.
2. Understand and grasp the basic outline of chemistry and the properties of important biomolecules like glucose, urea etc.
3. Summarize the working of enzymes and their importance as diagnostic tools for the clinician.
4. Describe the mechanisms involved in the maintenance of body fluids along with the electrolytes.
5. Be able to understand the concepts of laboratory medicine, which involves learning about physiological levels of important bio molecules and the underlying cause of change in disease states.

COURSE CONTENT:

Unit I – Introduction:

- Introduction: Importance of Biochemistry in Nursing. Study of cell and its various components

Unit II - Water and Electrolytes:

- Sources of water, its properties and functions in human body. Water & Fluid balance.
- Electrolyte of human body functions and sources. Dehydration causes and consequences. Imbalance – causes, hypo and hypernatremia and kalemia

Unit III – Enzymes:

- Definition and Mechanism of action. Factors affecting enzyme activities. Diagnostic applications. Precautions for handling specimens for enzymes estimation.
- Digestion and Absorption of carbohydrates, proteins and lipids. Factors influencing the digestion and absorption. Mal absorption syndrome.

Unit IV – Carbohydrates:

- Elementary outline of Electron transport chain (ETC) and Biological. Oxidation. Elementary consideration of Mono, disaccharides and polysaccharides. Fate of glucose in the body including-gluconeogenesis, glycogenesis, glycolysis, glycogenolysis. Storage of glucose. Outline and Importance of TCA Cycle (Kreb's cycle).
- Regulation of blood glucose levels. Glucose Tolerance test (GTT). Hyperglycemia, Hypoglycemia.

Unit V - Proteins – Amino Acids & Harmones:

- Protein Chemistry. Essential amino acids, properties and functions. Important polypeptides. Plasma Proteins and their functions. Nucleic acids- DNA, RNA. Biosynthesis of proteins in the cells and Role of nucleic acids in protein synthesis. Nitrogenous constituents of Urine, blood their origin Urea cycle and Nitrogen balance, Uric Acid formation, gout.

Unit VI – Lipids:

- Biological Importance of important lipids and their functions. Cholesterol and Lipoproteins. Sources occurrence and distribution. Blood levels and Metabolism. Biosynthesis of fats and storage of fats (B-oxidation). Role of liver in fat metabolism Fatty liver, its causes and Prevention. Goal of lipid metabolism in Atherosclerosis and Heart diseases. Ketone body formation and its utilization. Causes and detection of ketosis

Unit VII - Inter-Relationship in Metabolism:

- Carbohydrates, Lipids, Protein and Minerals metabolism. Nutrition, calorie values of food, BMR, SDA, Balanced Diet.

BIOCHEMISTRY AND BIOPHYSICS

SECTION A - BIOCHEMISTRY

Unit No. with total hours	Objectives	Contents with distributed hours		
		Must know	Desirable to know	Nice to know
I (02 hours)	At the end of unit students are able to Knowledge: Understand importance of biochemistry in. Skill: Draw the structure of cells. Attitude: Incorporate its knowledge in nursing care.	<ul style="list-style-type: none"> • Introduction: Importance of Biochemistry in Nursing . (1 hour) • Study of cell and its various components (1 hr) 		
II (02 Hrs)	At the end of unit students are able to Knowledge: Understand the distribution, functions and requirement of fluids and electrolytes in our body. Skill: Identify the signs and symptoms of dehydration. Attitude: Incorporate this knowledge in nursing practice.	<ul style="list-style-type: none"> • Distribution of water and its functions in human body (ECF & ICF) • Water & Fluid balance • Electrolyte Distribution and its functions in body • Dehydration causes and consequences • Electrolyte imbalance – causes, hypo and hypernatremia & kalemia (2 hours) 		
III (05 Hrs)	At the end of unit students are able to Knowledge: Understands actions of enzymes, factors influencing the digestion and absorption. Skill: Able to handle the enzymes specimens. Attitude: Incorporate this knowledge in nursing practice.	<ul style="list-style-type: none"> • Definition and Mechanism of action. • Factors affecting enzyme activities (1 hour) • Precautions for handling specimens for enzymes estimation (1 hour) • Digestion and Absorption of carbohydrates, proteins and lipids.(1 hour) • Factors influencing the digestion and absorption. (1hour) 	<ul style="list-style-type: none"> • Enzymes in clinical diagnosis and its applications. • Mal absorption syndrome (1 hr) 	
IV (05 hours)	At the end of unit students are able to Knowledge: Understand and describe ECT, oxidation, gluconeogenesis, glycogenesis, glycolysis, and glycogenolysis.	<ul style="list-style-type: none"> • Elementary outline of Electron transport chain (ETC) and Biological, Oxidation (1 hour) • Fate of glucose in the body including-gluconeogenesis, glycogenesis, glycolysis, glycogenolysis. Storage of glucose. • Outline and Importance of TCA Cycle (Kreb's cycle) . (1 hour) • Regulation of blood glucose levels. Glucose Tolerance test (GTT) (1 hour) 	<ul style="list-style-type: none"> • Elementary consideration of Mono, disaccharides and polysaccharides. (1 hour) • Hyperglycemia, Hypoglycemia (1 hour) 	
V (05 hours)	At the end of unit students are able to Knowledge: Understand and describe essentials, properties, functions and importance of amino acids.	<ul style="list-style-type: none"> • Protein Chemistry • Essential amino acids, properties and functions • Important polypeptides • Plasma Proteins and their functions (2 hours) • Nucleic acids- DNA, RNA • Biosynthesis of proteins in the cells and Role of nucleic acids in protein synthesis (1 hour) 	<ul style="list-style-type: none"> • Nitrogenous constituents of Urine, blood their origin Urea cycle (1 hr) • Nitrogen balance. Uric Acid formation, gout. (1 hr) 	
VI (06 hours)	At the end of unit students are able to Knowledge: Understand and describe importance and functions of lipids.	<ul style="list-style-type: none"> • Biological Importance of lipids and their functions • Cholesterol and Lipoproteins • Sources occurrence and distribution (2 hours) 	<ul style="list-style-type: none"> • Role of liver in fat metabolism Fatty liver, its causes and 	

		<ul style="list-style-type: none"> • Blood levels and Metabolism • Biosynthesis of fats and storage of fats (B-oxidation) (1 hour) • Goal of lipid metabolism in Atherosclerosis and Heart diseases • Ketone body formation and its utilization. (1 hr) 	Prevention.(1 hr) <ul style="list-style-type: none"> • Causes and detection of ketosis.(1 hour) 	
VII (05 hours)	At the end of unit students are able to Knowledge: Understand and describe metabolism of carbohydrate, protein and fats.	<ul style="list-style-type: none"> • Carbohydrates, Lipids, proteins, minerals metabolism. (3 hours) • Nutrition calorie value of food, BMR, SDA, Balance diet. (2 hours) 		

TEACHING STRATEGY:

Total Teaching Hours: 30

Lecture: 30 Hours

TEACHING METHODS:

- Lecture, Demonstration, Symposium, Group Discussion.

ASSIGNMENTS:**Theory:**

Sr. No.	Assignment	No./Quantity	Marks per Assignments	Total Marks
1	Tutorials	Two	15	30

- One Tutorial may be conducted in each term.

A. V. AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

LIST OF RECOMMENDED BOOKS:

- U. Satyanarayan & V. Chakrapani. Essentials of Biochemistry
- M. A. Siddiqui. Handbook of Biochemistry
- Anthikad. Biochemistry for Nurses
- D. M. Vasudevan & Sreekumari Textbook of Biochemistry
- Dinesh Puri. Textbook of Biochemistry : A clinically Oriented Approach

Subject No. 4
BIOCHEMISTRY AND BIOPHYSICS
SECTION 'B' - BIOPHYSICS

Total Hours: 30

Theory Hours: 30

AIM:

The broad goal of teaching biophysics to nurses is to enable them to understand the application of physics principles while providing nursing care to the patients.

OBJECTIVES:

At the end of the course, the students are able to:

1. Understand basic principles of Biophysics.
2. Grasp the basic outline of physical laws and properties.
3. Describe the functioning of the various biophysical states working within the human body in sickness and in health.
4. Describe the functioning of the biomedical equipment.
5. Be able to apply principles of Bio-physics while providing care to patients in various settings so as to improve the quality of nursing care

COURSE CONTENTS:

Unit I – Introduction:

- Introduction: Concepts of unit and measurements. Fundamental and derived units Unit length, weight, mass, time.

Unit II – Motion:

- Vector and scalar motion, speed, velocity and acceleration. Newton's law of motion.

Unit III – Gravity:

- Gravity: Specific gravity, centre of gravity, principles of gravity. Effect of gravitational forces on human body. Application of principles of gravity in nursing.

Unit IV - Force Work & Energy:

- Force, work, Energy: Their units of measurement. Type and transformation of energy, forces of the body, Static forces. Principles of machines, friction and body mechanics. Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw. Application of these principles in nursing.

Unit V – Heat:

- Heat: Nature, measurement, transfer of heat. Effects of heat on matter. Relative humidity, specific heat. Temperature scales. Regulation of body temperature. Use of heat for sterilization. Application of these principles in nursing.

Unit VI – Light:

- Light: Laws of reflection. Focusing elements of the eye, defective vision and its correction, use of lenses. Relationship between energy, frequency and wavelength of light. Biological effects of light. Use of light in therapy. Application of these principles in nursing

Unit VII – Pressures:

- Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure. Measurements of pressures in the body. Arterial and venous blood pressures. Ocular pressure. Intracranial pressure-applications of these principles in nursing.

Unit VIII – Sound:

- Sound: Frequency, Velocity and Intensity. Vocalization and hearing. Use of ultrasound. Noise pollution and its prevention. Application of these principles in nursing.

Unit IX – Electricity:

- Electricity and Electromagnetism: Nature of Electricity, Voltage, Current, Resistance and their Units. Flow of electricity in solids, electrolytes, gases and vacuum. Electricity and human body. ECG, EEG, EMG, ECT. Pace makers and defibrillators. Magnetism and electricity. M.R.I. Scanning, CAT Scan.

Unit X - Nuclear Physics:

- Atomic Energy: Structure of Atom, Isotopes and Isobars. Radioactivity: Use of radioactive isotopes. Radiation protection units and limits, instruments used for detection of ionizing radiation. X-rays.

Unit XI – Electronics:

- Principles of Electronics: Common electronic equipments used in patient care.

BIOCHEMISTRY AND BIOPHYSICS
SECTION B -BIOPHYSICS

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (01 hours)	At the end of unit students are able to Knowledge: Understand and describe the concepts of unit and measurements. Skill: Able to use measurements in nursing practice. Attitude: Recognizes the importance of units.	<ul style="list-style-type: none"> • Introduction: Concepts of unit and measurements Fundamental and derived units Unit length, weight, mass, time. (1 hour) 		
II (01 hours)	At the end of unit students are able to Knowledge: Understands and describes vector, speed, velocity and accelerations. Skill: Able to apply law of motion while providing care to the patients. Attitude: Incorporate knowledge into practice.	<ul style="list-style-type: none"> • Vector and scalar motion, speed, velocity and acceleration • Newton's law of motion (1 hour) 		
III (02 hours)	At the end of unit students are able to Knowledge: Understand and describe various aspects of gravity.	<ul style="list-style-type: none"> • Application of principles of gravity in nursing. (1 hour) 	<ul style="list-style-type: none"> • Gravity: Specific gravity, centre of gravity, principles of gravity. • Effect of gravitational forces on human body. (1 hour) 	
IV (04 hours)	At the end of unit students are able to Knowledge: Understand describe concept of force, work, and energy. Skill: Apply principles of mechanics while providing tractions to the patients. Attitude: Recognizes the importance of body mechanics in nursing practice.	<ul style="list-style-type: none"> • Type and transformation of energy, forces of the body, Static forces (1 hour) • Principles of machines, friction and body mechanics. • Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw. Application of these principles in nursing. (2 hours) 	<ul style="list-style-type: none"> • Force, work, Energy: Their units of measurement. (1 hour) 	
V (03 hours)	At the end of unit students are able to Knowledge: Understand and describe nature and effects of heat, relative humidity, and regulation of body temperature. Skill: Regulate temperature and humidity while providing care to patients. Attitude: Identify deviations in body temperature.	<ul style="list-style-type: none"> • Heat : Nature, measurement, transfer of heat , Effects of heat on matter • Relative humidity, specific heat (1 hour) • Temperature scales • Regulation of body temperature • Application of these principles in nursing (1 hour) 	<ul style="list-style-type: none"> • Use of heat for sterilization (1 hour) 	

VI (03 hours)	At the end of unit students are able to Knowledge: Understand and describe laws of reflection, elements of the eye, and use of light in therapy. Skill: Uses light in therapies. Attitude: Recognizes the importance of light in patient care.	<ul style="list-style-type: none"> • Focusing elements of the eye, defective vision and its correction, use of lenses • Relationship between energy, frequency and wavelength of light. (1 hour) • Use of light in therapy. • Application of these principles in nursing. (1 hour) 	<ul style="list-style-type: none"> • Light: Laws of reflection • Biological effects of light (1 hour) 	
VII (03 hours)	At the end of unit students are able to Knowledge: Understand and describe various principles of osmotic pressure. Skill: Able to apply the principles of osmotic pressure providing nursing care. Attitude: Recognizes the importance of osmotic pressure.	<ul style="list-style-type: none"> • Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure • Measurements of pressures in the body. (1 hour) • Intracranial pressure-applications of these principles in nursing. (1 hour) 	<ul style="list-style-type: none"> • Arterial and venous blood pressures, Ocular pressure (1 hour) 	
VIII (02 hours)	At the end of unit students are able to Knowledge: Understand and describe various aspects of sound. Skill: Able to apply the principles of sound in providing nursing care. Attitude: Appreciates socio cultural and economic background of individual and families.	<ul style="list-style-type: none"> • Sound : Frequency, Velocity and Intensity • Vocalization and hearing • Use of ultrasound. (1 hour) • Noise pollution and its prevention • Application of these principles in nursing (1 hour) 		
IX (05 hours)	At the end of unit students are able to Knowledge: Understand and describe Electricity and Electromagnetism. Skill: Assist in the procedures such as ECG, EEG, EMG, and ECT. Attitude: Recognizes the importance of principles of electricity.	<ul style="list-style-type: none"> • Electricity and Electromagnetism: Nature of Electricity, Voltage, Current, Resistance and their Units. (1 hour) • Electricity and human body • ECG, EEG, EMG, ECT • Pace makers and defibrillators. (1 hr) • M.R.I. Scanning, CAT Scan (1 hr) 	<ul style="list-style-type: none"> • Flow of electricity in solids, electrolytes, gases and vacuum. (1 hour) • Magnetism and electricity. (1 hour) 	
X (02 hours)	At the end of unit students are able to Knowledge: Understand and describe the principles of radioactivity. Skill: Apply principles of radioactivity in nursing care.	<ul style="list-style-type: none"> • Atomic Energy: Structure of Atom, Isotopes and Isobars. • Radiation protection units and limits, instruments used for detection of ionizing radiation. X-rays. (1 hour) 	<ul style="list-style-type: none"> • Radioactivity : Use of radioactive isotopes (1 hour) 	
XI (04 hours)	At the end of unit students are able to Knowledge: Understand s and describe the principles of electronics.	<ul style="list-style-type: none"> • Principles of Electronics: Common electronic equipments used in patient care. (4 hours) 		

TEACHING STRATEGY:

Total teaching hours: 30 hours

Lecture: 30 Hours

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion, Laboratory Demonstration.

ASSIGNMENTS:**Theory:**

Sr. No.	Assignment	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorial	Two	15	30

- One tutorial shall be conducted in each term.

A.V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Laboratory articles, Black Board.

LIST OF RECOMMENDED BOOKS:

- An introduction to physics in Nursing –Flitter H.H
- Practical Physics for Nurses –Sackleim
- Physics and Chemistry –laboratory manual for student nurses-TNAI
- Elementary physics for nurses-Waters
- An introduction to physical aspects of nursing sciences –Kigour, O.F.G
- Fundamental of physics and their applications –Stearns

Subject No. 5
PSYCHOLOGY

Total hours : 75

Theory hours: 60

Lab hours: 15

AIM:

This course is designed to orient students with regards to psychological principles and widen their knowledge off the fundamentals of psychology .The course offers students an opportunity to understand the psychodynamics of patient behavior and apply theoretical aspects in the clinical settings. This course will also help the student to develop an insight into his/her behavior.

OBJECTIVES:

At the end of course the students are able to:

1. Understand himself/herself and others
2. Analyze his /her own behavior patterns.
3. Use psychological principles to improve his/her efficiency in nursing care
4. Applying psychological principles while performing Nursing duties.
5. Distinguishing psychological processes during health and sickness.
6. Planning nursing care with regards to psychological needs and concerns.
7. Participating in psychological assessment of patients.

COURSE CONTENTS:

Unit I - Introduction to Psychology:

- Definition, history and scope. Branches and methods. Relationship with other subjects. Psychology and the student nurse. Habits and skills.

Unit II - Sensation, Attention and Perception:

- Sensation – Definition and sensory processes. Problems in sensation.
- Attention – Definition, characteristics and types. Factors affecting attention. Distraction and sustaining. Attention.
- Perception – Definition and characteristics. Perception of form, depth and movement. Types and difficulties in perception.
- Problems and nursing care

Unit III – Motivation:

- Definition, nature and theories. Needs and motives – Biological and social. Frustration and conflicts. Types of conflicts. Self actualization. Application in nursing care.

Unit IV – Emotion:

- Definition and meaning, theories. Expressions and perceptions. Emotions in sickness, nursing care.

Unit V – Personality:

- Definition, nature, constituents of personality and theories of personality development. Personality in sickness and nursing.

Unit VI - Psychological Aspects of Nursing:

- Behavior during sickness. Understanding the client. Psychological approach in nursing care. Psychological needs of child, adolescent, adult, aged. Chronically ill individuals.

Unit VII - Individual Difference:

- Definition and significance. Heredity and environment. Role in health and sickness. Implications individual difference in nursing.

Unit VIII - Intelligence and Abilities:

- Definitions and nature, theories. Psychological testing and measurement of intelligence and abilities. Mental retardation and IQ. Intelligence and abilities during sickness.

Unit IX – Learning:

- Definition, nature and conditioning theories. Learning process, laws and types and factors. Learning during health and sickness.

Unit X - Memory and Forgetting:

- Memory and Forgetting – Definition and nature. Memory during health and sickness. Forgetting during health and sickness.

Unit XI – Attitudes:

- Definition and nature, theories. Factors affecting attitude formation. Development and modifications of attitude. Role of attitudes in health and sickness

Unit XII - Concept Mental Hygiene:

- Concepts and meaning of mental hygiene and mental health. Characteristics of a mentally healthy person. Defense Mechanism.

PRACTICAL

1. **Experiments:** Perception. Measuring thresholds. Reaction time.
2. **Psychological test:** Administration of psychological test.
3. **Observation and recording data:** Field observation. Interview. Case study. Self Rating.

PSYCHOLOGY

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (03 hours)	At the end of unit students are able to Knowledge: Define psychology and Explain the branches and methods of psychology. Skill: Identify the relationship of psychology with other subjects.	<ul style="list-style-type: none"> • Definition, history and scope.(1 hour) • Branches and methods.(1 hour) • Habits and skills.(1 hour) 		
II (08 hours)	At the end of unit students are able to Knowledge: Describe the sensory process and define attention and sensation. Describe the characteristics and types of attention. Skill: Identify the factors affecting attention. Identify the difficulties in perception.	<ul style="list-style-type: none"> • Problems in sensation • Attention – Definition, characteristics and types • Factors affecting attention (1 hour) • Perception – Definition and characteristics. • Perception of form, depth and movement. (2 hours) • Types and difficulties in perception. (1 hour) • Problems and nursing care (2 hours) 	<ul style="list-style-type: none"> • Sensation – Definition and sensory processes. • Distraction and sustaining attention. (2 hrs) 	
III (07 hours)	At the end of unit students are able to Knowledge: Understand and describe motivation and conflict. Skill: Identify the needs and Apply the motivational theories in nursing care plan.	<ul style="list-style-type: none"> • Definition, nature and theories. (1 hour) • Frustration and conflicts. • Types of conflicts. (2 hours) • Self actualization. (1 hour) • Application in nursing care (1 hour) 	<ul style="list-style-type: none"> • Needs and motives (1 hour) • Biological and social. (1 hour) 	
IV (05 hours)	At the end of unit students are able to Knowledge: Define, understand & describe the nature of emotions. Skill: Recognize the emotional reactions of the individuals. Attitude: Incorporate this knowledge in professional practice.	<ul style="list-style-type: none"> • Definition and meaning, theories (2 hour) • Expressions and perceptions. (1 hour) • Emotions in sickness, nursing care (2 hour) 		
V (03 hours)	At the end of unit students are able to Knowledge: Define and explain types and theories of personalities. Skill: Identify different types of personalities and change in personality during illness. Attitude: Deal effectively with different types of personality.	<ul style="list-style-type: none"> • Definition, nature, constituents of personality and theories of personality development (2 hours) • Personality in sickness and nursing. (1 hour) 		
VI (07 hours)	At the end of unit students are able to Knowledge: Understand and describe importance of psychology in nursing. Attitude: Use this knowledge while providing care	<ul style="list-style-type: none"> • Behavior during sickness (1 hour) • Understanding the client. (1 hour) • Psychological approach in nursing care. • Psychological needs of child, adolescent, adult, aged. 		

	to the patients.	Chronically ill individuals (5 hours)		
VII (05 hours)	At the end of unit students are able to Knowledge: Define and understand individual differences. Skill: Identify individual differences.	<ul style="list-style-type: none"> • Role in health and sickness Implications individual difference in nursing (3 hours) 	<ul style="list-style-type: none"> • Definition and significance (1 hr) • Heredity and environment (1 hr) 	
VIII (04 hours)	At the end of unit students are able to Knowledge: Define, know and describe intelligence theories. Skill: Identify people with different IQ level and deal accordingly. Provide comprehensive care to clients with different level of IQ.	<ul style="list-style-type: none"> • Definitions and nature, theories. • Mental retardation and IQ • Intelligence and abilities during sickness. (2 hours) 	<ul style="list-style-type: none"> • Psychological testing and measurement of intelligence and abilities (2 hours) 	
IX (05 hours)	At the end of unit students are able to Knowledge: Define and understand nature, process of theories of learning. Skill: Learn new skills required for maintaining quality standard. Attitude: Develops and maintain lifelong learning attitude.	<ul style="list-style-type: none"> • Definition, nature and conditioning theories. (2 hours) • Learning during health and sickness (2 hours) 	<ul style="list-style-type: none"> • Learning process, laws and types and factors. (1 hour) 	
X (04 hours)	At the end of unit students are able to Knowledge: Define and explain the nature of memory. Skill: Identify alteration in memory status of individuals due to illness or aging process. Attitude: Render quality care to the patients with memory alterations.	<ul style="list-style-type: none"> • Memory during health and sickness. (2 hours) • Forgetting during health and sickness (1 hour) 	<ul style="list-style-type: none"> • Memory and Forgetting – Definition and nature. (1 hour) 	
XI (04 hours)	At the end of unit students are able to Knowledge: Define and understand nature, theories, and factors affecting attitude formation. Skill: Identify attitude of individuals. Attitude: Incorporate this knowledge into professional practice.	<ul style="list-style-type: none"> • Definition and nature, theories. (1 hour) • Factors affecting attitude formation (1 hour) • Development and modifications of attitude (1 hour) • Role of attitudes in health and sickness. (1 hour) 		
XII (05 hours)	At the end of unit students are able to Knowledge: Define and understand nature, theories and factors affecting attitude formation. Skill: Identify attitude of individuals. Attitude: Incorporate this knowledge into professional practice.	<ul style="list-style-type: none"> • Concepts and meaning of mental hygiene and mental health (1 hour) • Characteristics of a mentally healthy person. (1 hour) • Defense Mechanism (3 hours) 		

LAB HOURS:

<i>Sr. No.</i>	<i>Topic</i>	<i>Break up of topic</i>	<i>Lab hours</i>	<i>Total hours</i>
1	Experiment	Perception Measuring thresholds Reaction time	2 2 1	5
2	Psychological tests	Administration of psychological test	2	2
3	Observation and recording data	Field observation Interview case study Self rating	2 2 2 2	8

TEACHING STRATEGY:

Total teaching hours	:	75 hours
Lecture	:	60 hours
Lab hours	:	15 hours

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion, Clinical Observation.

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorials	Three	15	45
2	Maintaining and Submission of practical's record and report of Observations in Practical Hours	One	15	15
Grand Total				60

- Two Tutorials may be conducted in FIRST term and one in second terms.

LIST OF RECOMMENDED BOOKS:

- Elements of Psychology and mental Hygiene for nurses-Bhatia and Craig.
- Fundamental of experimental Psychology –Dandekar.
- Developmental Psychology –E.Hurlok.
- Psychology as applied to nursing –McGhee.
- Introduction to psychology –Morgan and King.

Subject No. 6

MICROBIOLOGY

Total Hours: 90

Theory Hours: 60

Lab Hours: 30

AIM:

This course reorients the students to the fundamentals of microbiology and its various subdivisions .It provides opportunities to gain skill in handling and use of the microscope for identifying various microorganisms .It also provides opportunities for the safe handling of materials containing harmful bacteria and the methods of destroying the micro-organisms.

OBJECTIVES:

The course will enable the students to:

1. Identify common disease causing microorganisms
2. Basic principles of microbiology and its significance in health and disease.
3. Handling various infective specimens.
4. Various methods of sterilization and disinfection.
5. Role of the nurse in the hospital Infection control system.

COURSE CONTENTS:

Unit I – Introduction:

- Structure and classification of Microbes. Morphological types. Size and form of bacteria, structure, spore, flagella, capsule. Motility. Classification of organisms. Colonization.

Unit II - Identification of Micro-organism:

- Identification of micro-organism. Discussion of laboratory methods. Diagnosis of bacterial diseases.

Unit III - Growth and Nutrition of Microbes:

- Growth and nutrition of Microbes. Temperature. Moisture. Blood. Bacteria growth curve and culture media.

Unit IV - Destruction of Micro-organism:

- Sterilization and disinfections. Effect of heat and cold. Chemotherapy and antibiotics. Hospital infection control procedure and role of nurses

Unit V - Disease producing Micro-organisms:

- Gram positive Bacilli. Tuberculosis and leprosy. Anaerobes. Cocci. Spirochetes. Rickettsiae.

Unit VI - Pathogenic Fungi:

- Pathogenic fungi. Dermatophytes. Systemic Mycotic infection. Laboratory diagnosis of Mycotic infection.

Unit VII – Immunity:

- Immunity. Immunity and Hypersensitivity –Skin test. Antigen anti body reaction. Immunization of disease

Unit VIII - Parasites and vectors:

- Parasites and vectors. Characteristics and classification of parasites. Protozoal infection including amoebiasis.
- Helminthes infection. Diagnosis of parasitic infection .Vector and diseases transmitted by them.

Unit IX – Viruses:

- Classification and general characteristics of viruses. Diseases caused by viruses in men and animal and their control.

Unit X - Food borne infections:

- Micro-organisms transmitted through foods. Food poisoning. Food borne infections.

MICROBIOLOGY

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (03 hours)	At the end of unit students are able to Knowledge: Understand and describe the basic concepts of microbiology.	Structure and classification of Microbes: <ul style="list-style-type: none"> • Morphological types • Size and form of bacteria structure, spore, flagella capsule (2 hours) 	<ul style="list-style-type: none"> • Motility • Colonization. (1 hour) 	
II (03 hours)	At the end of unit students are able to Knowledge: Know the identification of microorganisms.	Identification of micro-organism: <ul style="list-style-type: none"> • Discussion of laboratory methods (2hrs) • Diagnosis of bacterial diseases (1 hour) 		
III (04 hours)	At the end of unit students are able to Knowledge: Understand and describe growth and nutrition of microorganisms.	Growth and nutrition of Microbes: <ul style="list-style-type: none"> • Temperature. Moisture. Blood .(2 hour) • Bacteria growth curve and culture media (2 hours) 		
IV (06 hours)	At the end of unit students are able to Knowledge: Understand describe disinfection and sterilization. Skill: Perform disinfection of the care giving areas. Attitude: Recognizes the importance of disinfection in nursing practice.	Destruction of micro-organism: <ul style="list-style-type: none"> • Chemotherapy and antibiotics (2 hours) • Hospital infection control procedure And role of nurses.(2 hours) 	<ul style="list-style-type: none"> • Sterilization and disinfections. (1 hr) • Effect of heat and cold. (1 hour) 	
V (10 hours)	At the end of unit students are able to Knowledge: Understand and describe various disease producing microorganisms.	Disease producing micro-organisms: <ul style="list-style-type: none"> • Gram positive Bacilli (2 hour). • Anaerobes (2 hour). Cocci. (2 hour) • Spirochetes (2 hour). Rickettsae . (1 hour) 	<ul style="list-style-type: none"> • Tuberculosis and leprosy. (1 hour) 	
VI (04 hours)	At the end of unit students are able to Knowledge: Understand and describe various disease producing fungi.	Pathogenic fungi: <ul style="list-style-type: none"> • Dermatophytes (1 hour) • Systemic Mycotic infection (2 hours) • Laboratory diagnosis of Mycotic infection. (1 hour) 		
VII (06 hours)	At the end of unit students are able to Knowledge: Understand and describe immunity, hypersensitivity, and antigen antibody reactions. Attitude: Recognizes the importance of immunity.	Immunity: <ul style="list-style-type: none"> • Immunity and hypersensitivity –Skin test (2 hours) • Antigen anti body reaction (2 hours) • Immunization of disease (2 hours) 		
	At the end of unit students are able to Knowledge: Understand and describe various	Parasites and vectors: <ul style="list-style-type: none"> • Characteristics and classification of parasites. 	<ul style="list-style-type: none"> • Vector and diseases transmitted by them (2 hours) 	

VIII (10 hours)	parasites and vectors.	(2 hrs) <ul style="list-style-type: none"> • Protozoal infection including amoebiasis (2 hours) • Helminthes infection (2 hour) • Diagnosis of parasitic infection (2 hour) 		
IX (08 hours)	At the end of unit students are able to Knowledge: Understand and describe classification and characteristics of viruses.	Viruses: <ul style="list-style-type: none"> • Classification and general characteristics of viruses (3 hours) • Diseases caused by viruses in men and animal and their control (5 hours) 		
X (06 hours)	At the end of unit students are able to Knowledge: Understand and describe the microorganisms transmitted through food.	Micro-organisms transmitted through foods: <ul style="list-style-type: none"> • Food poisoning. Food borne infections. • Food safty (6 hours) 		

LABORATORY HOURS DISTRIBUTION:

<i>Sr. No.</i>	<i>Topic</i>	<i>Particulars</i>	<i>Lab. Hrs</i>
I	Introduction:	<ul style="list-style-type: none"> • Use and care of microscope • Common examination smear, moulds, blood, yeast. 	2
II	Identification of micro-organism	<ul style="list-style-type: none"> • Staining techniques-gram staining, acid fast staining • Hanging drop preparation. 	6
III	Growth and nutrition of Microbes.	<ul style="list-style-type: none"> • Preparation of media and culture techniques • Collection ,handling and transportation of various specimens 	6
IV	Destruction of micro-organism	<ul style="list-style-type: none"> • Sterilization and disinfections-Physical, Chemical and Mechanical. 	3
V	Disease producing micro-organisms	<ul style="list-style-type: none"> • Identification and study of the bacteria • Streptococci , Pneumococci and Staphylococci, Corynebacterium , Spirochetes, Rickettsiae • Enteric Bacteria. • Posting in the Infection control department 	5
VII	Immunity	<ul style="list-style-type: none"> • Demonstration of serological methods 	3
VIII	Parasites and vectors	<ul style="list-style-type: none"> • Identification of Parasites and vectors 	2
	Observational visit to incinerator, CSSD		3

TEACHING STRATEGY:

Total Teaching Hours: 90 hours

Lecture: 60 hours

Practical: 30 Hours

TEACHING METHOD:

- Lecture, Seminar, Laboratory Demonstration, Group Discussion, Clinical Observation.

A. V. Aids:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

ASSIGNMENTS:**Theory:**

Sr. No.	Assignment	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorials	Two	15	30
2	Evaluation of Journal	One	15	15
3	Report of Visits	One	15	15
Grand Total				60

- One Tutorial shall be conducted in each term.

LIST OF RECOMMENDED BOOKS:

- Textbook of Microbiology –Anantnarayan
- Textbook of Microbiology -Chakravati
- Essentials of Microbiology –Baveja
- Textbook of Parasitology –Panikar
- Textbook of medical microbiology –Koneman
- Microbiology in nursing practice: - Marion E.Wilson
- Text book of Parasitology –Chatterjee

Subject No. 7

MATERNAL NURSING

Total Hours: 310
Lab Hours : 5

Theory Hours : 65
Clinical Hours: 240

AIM:

This course is designed to widen the students' knowledge of obstetrics during pregnancy, labor and puerperium. It also helps to acquire knowledge and to develop skill in rendering optimum nursing care to a child bearing mother in a hospital or in a community setting and help in the management of common gynecological problems.

OBJECTIVES:

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

1. Describe the physiology of pregnancy, labour and puerperium.
2. Manage normal pregnancy, labour and puerperium.
3. Explain the physiology of lactation and advice on management of breast feeding.
4. Provide pre and post operative nursing care in obstetric conditions.
5. Identify and manage high risk pregnancy including appropriate referrals.
6. Propagate the concept and motivate acceptance of family planning methods.
7. Teach, Guide and supervise auxiliary midwifery personnel.

COURSE CONTENTS:

Unit I – Review:

- Early history of midwifery and evolution of obstetrics. Maternity care and practices in various cultures across the world. Expanded role of the midwife in maternity. Safe motherhood initiative. Maternal mortality, morbidity and perinatal mortality. Legislation related to maternal benefits, MTP acts, Family planning. Family welfare programme

Unit II - Anatomy and Physiology of Female Reproductive System:

- Review of anatomy and physiology of female reproductive system. Female pelvis and fetal skull. Menstrual cycle. Human reproduction, gametogenesis, fertilization, embryo. Placenta, liquor amnii, umbilical cord the fetus: fetal growth, fetal circulation.

Unit III - Normal Pregnancy:

- Physiological changes during pregnancy. Diagnosis of pregnancy and antenatal care. Antenatal assessment of foetal well being. Physiology of normal labour. Mechanism of normal labour. Management of I, II, and III stages of labour. Physiology of normal puerperium. Physiology of lactation and breast feeding. Management of normal puerperium.

Unit IV - New Born Baby:

- Immediate care of newborn, including SGA & LGA. Normal characteristics and essential care of newborn. Newborn Resuscitation. Asphyxia Neonatrum, respiratory distress. Jaundice in newborn. Birth injuries, infection in newborn. Still birth – incidence, causes and prevention. Organization of NICU

Unit V - High Risk Pregnancy:

- Abortions. Hydatidiform mole. Ectopic pregnancy. Ante partum hemorrhage – Placenta praevia, Abruption placenta. Hyper emesis Gravidarum. Pregnancy in Rh negative women. Multiple pregnancies. Hydramnios: Oligohydramnios, Polyhydramnios. Preterm labour, Postdatism. Premature rupture of membrane IUGR. Pregnancy with previous caesarean section. Uterine Fibroid during pregnancy. Ovarian tumor during pregnancy.

Unit VI - Medical Disorders in Pregnancy:

Toxemias' during Pregnancy:

- Pre-eclampsia, Eclampsia. Anemia in pregnancy. Diabetes mellitus in pregnancy. Heart diseases during pregnancy. Renal disorders in pregnancy. Jaundice in pregnancy. Pulmonary TB. Pregnancy with STD, HIV / AIDS.

Unit VII - High Risk Labour:

- Abnormal presentation – Unstable lie, Occipito posterior, face, brow, Breech, compound presentation. Abnormal uterine action. Contracted pelvis and CPD Obstructed labour, rupture of uterus, injuries of maternal birth canal, cord prolapsed, newer technologies in labour management

Unit VIII - Abnormalities of Puerperium:

- Puerperal pyrexia and puerperal sepsis. Post partum hemorrhage. Breast complications – Breast engorgement, breast abscess, acute mastitis. Psychiatric disorders in puerperium.

Unit IX - Obstetrical Emergencies & Operative Obstetrics:

- Uterine rupture, cervical tear. D & E , S & E. Use of instruments – Forceps, Vacuum. Caesarean section. Destructive operations.

Unit X – Pharmacotherapeutics:

- Oxytocics, Prostaglandins – use in obstetrics. Anesthesia and analgesics used in obstetrics.
- Effects of drugs during pregnancy, labour and puerperium on mother and baby.

Unit XI - Special Investigations in Obstetrics:

- USG, NST, CTG. Radiography.

Unit XII - Gynecological Nursing:

- Common Gynecological Problems. Cervical erosions, Carcinoma. Fibroids, Uterine and Cervical Prolapse Uterine Inversion etc.

Unit XIII – National Programmes and Current Trends in Reproductive Health:

- Recent national Programme for women, National Family welfare Programme, Infertile family, Problems associated with unwanted pregnancy, unwanted mother.
- Infertility, genetic counseling. Unwanted pregnancy. Unwed mothers. Advances in maternity care.

❖ Lab teaching:

- Mechanism of labour. New born resuscitation. Abnormal presentation – Unstable lie, Occipito posterior, face, brow, Breech, compound presentation. Contracted pelvis and CPD. Use of instruments forceps and vacuum.

MATERNAL NURSING

Unit No. with total hours	Objectives	Contents with distributed hours		
		Must know	Desirable to know	Nice to know
I (04 hours)	At the end of unit students are able to Knowledge: Understand and describe trans cultural maternity nursing, role of nurse in family welfare programmes. Skill: To apply legislation related to maternal benefits, MTP act and family planning. Attitude: Describe expanded role of midwife in maternity care.	<ul style="list-style-type: none"> • Maternity care and practices in various cultures across the world. (1 hour) • Expanded role of the midwife in maternity. • Safe motherhood initiative. • Maternal mortality, morbidity and perinatal mortality. (1 hour) 	<ul style="list-style-type: none"> • Early history of midwifery and evolution of obstetrics. • Legislation related to maternal benefits, MTP acts, Family planning (1 hr) 	<ul style="list-style-type: none"> • Family welfare programme (1 hour)
II (06 hours)	At the end of unit students are able to Knowledge: Review anatomy and physiology of female reproductive system. Explain fertilization, fetal growth and fetal circulation. Skill: Demonstrate fetal skull and female pelvis. Attitude: Recognizes placenta, liquor amnii, umbilical cord.	<ul style="list-style-type: none"> • Review of anatomy and physiology of female reproductive system. (1 hour) • Female pelvis and foetal skull. (1 hour) • Human reproduction, gametogenesis, fertilization, embryo. (1 hour) • Placenta, liquor amnii, umbilical cord • The foetus: foetal growth, foetal circulation. (2 hour) 	<ul style="list-style-type: none"> • Menstrual cycle. (1 hour) 	
III (07 hours)	At the end of unit students are able to Knowledge: Understands and describe physiological changes during pregnancy, physiology of lactation, diagnosis of pregnancy and antenatal care. Skill: Demonstrate mechanism of normal labor. Attitude: Perform antenatal assessment of fetal well being.	<ul style="list-style-type: none"> • Physiological changes during pregnancy. Diagnosis of pregnancy and antenatal care. • Antenatal assessment of fetal well being. (2 hour) • Physiology of normal labour. (1 hour) • Mechanism of normal labour. (1 hour) • Management of I, II, and III stages of labour. Physiology of normal puerperium. • Management of normal puerperium.) (2 hour) 	<ul style="list-style-type: none"> • Physiology of lactation and breast feeding. (1 hour) 	
IV (06 hours)	At the end of unit students are able to Knowledge: Understand and describe asphyxia neonatrum, respiratory distress, neonatal jaundice, birth	<ul style="list-style-type: none"> • Immediate care of newborn, including SGA & LGA. Normal characteristics and essential care of newborn. (1 hour) 		<ul style="list-style-type: none"> • Still birth – incidence, causes and prevention. (1 hour)

	<p>injuries and newborn infections.</p> <p>Skill: Demonstrate newborn assessment and newborn resuscitation.</p> <p>Attitude: Practice immediate care of newborn. Identify the organization of NICU.</p>	<ul style="list-style-type: none"> • Newborn Resuscitation. Asphyxia Neonatrum, respiratory distress. Jaundice in newborn. • Birth injuries, infection in newborn. • Organization of NICU (4 hour) 		
V (13 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and describe the management of high risk pregnancy.</p> <p>Skill: Perform abdominal palpation on high risk patients.</p> <p>Attitude: Recognizes various factors responsible for high risk pregnancy.</p>	<ul style="list-style-type: none"> • Abortions. Hydatidiform mole. Ectopic pregnancy. Ante partum hemorrhage – Placenta praevia, Abruptio placenta. Hyperemesis Gravidarum. Multiple pregnancies. Hydramnios: Oligohydramnios. Polyhydramnios. Preterm labour, Postdatism. Premature rupture of membrane. IUGR. Uterine Fibroid during pregnancy. (10 hours) 	<ul style="list-style-type: none"> • Pregnancy in Rh negative women. • Pregnancy with previous caesarean section. (2 hours) 	<ul style="list-style-type: none"> • Ovarian tumor during pregnancy (1 hour)
VI (06 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Explains various medical and gynecological disorders during pregnancy.</p> <p>Skill: Perform antenatal and post natal assessment for high risk cases.</p> <p>Attitude: Identify various factors responsible for high risk pregnancy.</p>	<ul style="list-style-type: none"> • Toxemias' during Pregnancy: Pre-eclampsia, Eclampsia. (1 hour) • Anemia in pregnancy. • Diabetes mellitus in pregnancy. (1 hr) • Heart diseases during pregnancy. (1hr) • Pregnancy with STD, HIV / AIDS (1hr) 	<ul style="list-style-type: none"> • Renal disorders in pregnancy (1 hour) • Jaundice in pregnancy. • Pulmonary TB. (1 hour) 	
VII (03 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and describe abnormal uterine action, obstructed labour, rupture of uterus, cord prolapsed.</p> <p>Skill : Demonstrate abnormal presentations</p> <p>Attitude : Identify women with contracted pelvis and CPD.</p>	<ul style="list-style-type: none"> • Abnormal presentation – Unstable lie, Occipito posterior, face, brow, Breech, compound presentation. (1 hour) • Abnormal uterine action. Contracted pelvis and CPD. Obstructed labour, rupture of uterus, injuries of maternal birth canal, cord Prolapse. Newer trends in management (2 hour) 		
VIII (04 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and describe puerperal pyrexia, puerperal sepsis, PPH.</p> <p>Skill: Demonstrate skill in nursing management of postnatal complications.</p> <p>Attitude: Identify various patients with breast complications.</p>	<ul style="list-style-type: none"> • Post partum hemorrhage • Breast complications – Breast engorgement, breast abscess, acute mastitis. (2 hours) 	<ul style="list-style-type: none"> • Puerperal pyrexia and puerperal sepsis. • Psychiatric disorders in puerperium. (2 hours) 	

IX (03 hours)	At the end of unit students are able to Knowledge: Describe operative emergencies. Skill: Perform various nursing procedures during obstetrical complications. Attitude: Identify instrumental deliveries. Display confidence while caring operative patients. Recognize various instruments used in operative obstetrics.	<ul style="list-style-type: none"> • Uterine rupture, cervical tear • D & E , S & E • Use of instruments – Forceps, Vacuum. (1 hour) • Caesarean section • Destructive operations. (2 hour) 		
X (02 hours)	At the end of unit students are able to Knowledge: Describe the use of oxytocins, prostaglandins and anesthetic agents in obstetrics. Skill: Calculate the doses of drugs. Identify the side effects of drugs used in obstetrics. Attitude: Differentiate various drugs used in obstetrics. Recognizes nurses' responsibilities in administering drugs.	<ul style="list-style-type: none"> • Oxytocin, Prostaglandins – use in obstetrics. (1 hour) • Anesthesia and analgesics used in obstetrics. (1 hour) 		
XI (02 hours)	At the end of unit students are able to Knowledge: Describe USG, NST, CTG and radiography. Skill: Provide nursing care during special investigations. Attitude: Determine various principles used in special investigations.	<ul style="list-style-type: none"> • USG, NST, CTG • Radiography. (2 hours) 		
XII (04 hours)	At the end of unit students are able to Knowledge: Explain common gynecological problems. Skill: Demonstrate skill and providing nursing care to women with gynecological problems. Attitude: Recognizes signs and symptoms of common gynecological problems.	<ul style="list-style-type: none"> • Common Gynaecological Problems. • Fibroids, Uterine and Cervical Prolapse. (2 hours) 	<ul style="list-style-type: none"> • Cervical erosions, Carcinoma. • Uterine Inversion etc. (2 hours) 	
XIII (05 hours)	At the end of unit students are able to Knowledge: Understand and describe National Programmes, infertility, genetic counseling and unwanted pregnancies. Skill: Plan genetic counseling sessions for the couples. Attitude: Determine various advancements in infertility treatment and genetic counseling.	<ul style="list-style-type: none"> • National Programmes for women, National family welfare programme. (1 Hr) • Infertility, genetic counseling. (1 hour) • Advances in maternity care.(1 hour) 	<ul style="list-style-type: none"> • Unwanted pregnancy. (1 hour) 	<ul style="list-style-type: none"> • Unwed mothers. (1 hour)

DISTRIBUTION OF LAB HOURS:

<i>Sr. No.</i>	<i>Topic</i>	<i>Hours</i>	<i>Total Hours</i>
1	Mechanism of labour	1	5
2	New born resuscitation	1	
3	Abnormal presentation – Unstable lie, Occipito posterior, face, brow, Breech , compound presentation	1	
4	Contracted pelvis and CPD	1	
5	Use of instruments forceps and vacuum	1	

DISTRIBUTION OF CLINICAL HOURS:

Clinical Experience	Total Hours: 240	Unit	Clinical hrs
		1. Antenatal and Post natal ward	30
2. Labour Room	60		
3. Gynaec ward	60		
4. OPD	30		
5. Operation Theatre	60		

TEACHING STRATEGY:

Total Teaching Hours: 310

Lecture: 65 hours

Lab hours: 5

Clinical hours: 240

TEACHING METHODS:

- Lecture, Seminar, Laboratory Demonstration, Group Discussion, Clinical Observation, Bed Side clinic, Workshops, Simulation

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Case Study	One	50	50
2	Case Presentation	One	25	25
3	Nursing Care Plan(one from Gynae and one from Obstetric)	Two	25	50
4	Clinical Performance Evaluation (ANC,PNC &Labor Room)	Three Areas	50	150
5	Organization of Mass Health Education Programme (Group Work)	One	25	25
Grand Total				300

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted Instruction, Flip charts, Posters, Black Board, Models, Mannequins

LIST OF RECOMMENDED BOOKS:

- Myles Text Book of Midwives- Eds; Diane M. Fraser and Margaret A. Cooper
- D.C. Dutta- Text Book of Obstetrics including Perinatology and Contraception
- Hawkins and Bourne, Shaws -Textbook of Gynaecology
- S S Ratnam, K Bhasker Rao and S Arulkumaran, -Obstetrics and Gynaecology for Postgraduates, Vol. 1 and Vol. 2
- Lower milk, Perry, Bobak-Maternity and women's Health Care
- C. S. Dawn:-Textbook for obstetrics & neonatology.

Subject No. 8 CHILD HEALTH NURSING

Total Teaching hours: 310
Lab hours: 10

Theory hours: 60
Clinical hours: 240

AIM:

This course is aimed at developing an understanding of the modern approach to child care, the principles of child health nursing and the common problems of neonates and children in health and sickness.

OBJECTIVES:

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

1. Explain the modern concept of child care and the principle of child health nursing.
2. Describe the normal growth and development of children in various age groups.
3. Explain the physiological response of body to disease conditions in children.
4. Identify the health needs and problems of neonates and children, plan and implement appropriate nursing interventions.
5. Identify the various preventive, promotive and rehabilitative aspects of child care and apply them in providing nursing care to children in hospital and in the community.
6. Manage healthy as well as sick neonates and children.

COURSE CONTENT:

Unit I - Introduction to Child Health Nursing:

- Modern concept of child care internationally accepted rights of the child. Changing trends in hospital care, preventive, promotive and curative aspects of child health Child morbidity and mortality rates. National policy and legislation's in relation to child health and welfare. National programmes related to child health and welfare. Differences between adult and child care. Hospital environment for a sick child and role of a pediatric nurse in caring for the hospitalized child.

Unit II - The Healthy Child:

- Growth & development. Principles & factors affecting growth & development. Assessment of growth and development. Growth & development from birth to adolescence, needs of normal children through stages of development and parental guidance. Growth chart. Nutritional needs of infants and children principles of pediatric nutrition. Breast feeding, Artificial feeding & weaning. Infancy, toddler, pre scholar, school age child and adolescents. Role of play in children - Need, importance and value of play, selection of play material and nurse's role. Preventive immunization

Unit III - Care of the Neonate:

- Characteristics and care of a newborn. Asphyxia neonatorum. Low birth weight infants. Neonatal resuscitation. Nursing management of common neonatal disorders. Neonatal jaundice & photo therapy. Neonatal sepsis & hypoglycemia. Organization of Neonatal units, Prevention & Control of infection. Critical care concept in child health.

Unit IV - Nursing Management of Common Childhood Illness:

- a. Nutritional deficiency disorders:** Protein energy malnutrition. Vitamin deficiency disorders (Rickets, scurvy, Vitamin A deficiency disorders).
- b. Respiratory diseases & disorders:** Acute bronchitis & Bronchiolitis. Pneumonia. Branchial Asthama.
- c. Disorders of the gastro-intestinal system:** Acute gastroenteritis. Tracheo esophageal fistula. Cleft lip and palate. Hypertrophic Pyloric Stenosis. Hirschsprung's disease & Intestinal Obstruction. Anorectal anomalies.
- d. Cardiovascular system:** Rheumatic fever. Congenital heart diseases. Congestive cardiac failure.
- e. Disorders of Genito urinary System:** Acute glomerulo nephritis. Nephrotic Syndrome. Wilm's tumor & congenital disorders.
- f. Neurological disorders:** Convulsions in children & Epilepsy. Meningitis & Encephalitis. Hydrocephalus, Meningocele and meningocele
- g. Haematological disorders:** Anaemia & Thalassemia. Idiopathic thrombocytic Purpura & Hemophilia. Leukaemia.
- h. Endocrine Disorders:** Juvenile Diabetes Mellitus
- i. Orthopedic Disorders:** CTEV (Club foot) , Congenital hip dislocation. Fractures.
- J Disorders of Skin, Eye & ENT:**

- **Skin:**-Eczema, urticaria, scabies, pediculosis, worm infestations

- **Eye & ENT:** Tonsillitis, Deafness, Otorrhoea, Otitis Media, Congenital Cataract, Hypertelorism

k. Communicable Diseases in Children: Measles/rubella, Chicken pox, Diphtheria, whooping cough, Tetanus, Poliomyelitis, AIDS, Tuberculosis. Covid 19, recent communicable infections

l Paediatric Emergencies: Accidents, Poisoning, Stings & Bites. Foreign bodies, Hemorrhage & Drowning Burns.

Unit V - Management of behavioral problems in children:

- Enuresis, Encopresis, temper tantrums somnambulism, juvenile delinquency, Speech defects, tics, pica, antisocial behavior .Management of challenged children. Need for early diagnosis, treatment and rehabilitation of mentally challenged. Mental retardation. Physically challenged .Cerebral palsy. Socially challenged – Child abuse & child labour.

CHILD HEALTH NURSING

<i>Unit No. with total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (07 hours)	At the end of unit students are able to Knowledge: Know the basic care of child health nursing Skill: Organize the principles of pre and post operative care of child health nursing.	<ul style="list-style-type: none"> • Modern concept of child care, internationally accepted rights of the child. Changing trends in hospital care, preventive, promotive and curative aspects of child health Child morbidity and mortality rates (2 hour) • National policy and legislation's in relation to child health and welfare. National programmes related to child health and welfare. (2 hour) • Differences between adult and child care.(1 hour) • Hospital environment for a sick child and role of a pediatric nurse in caring for the hospitalized child. (1 hour) • Principles of pre and post operative care of infants and children. (1 hour) 		
II (12 hours)	At the end of unit students are able to Knowledge: Know the normal growth and development of the child. Skill: Develop the nursing care regarding the nutritional needs. Attitude: Have a positive attitude regarding the preventive humanization.	Growth & development: <ul style="list-style-type: none"> • Principles & factors affecting growth & development. (1 hour) • Assessment of growth and development. • Growth & development from birth to adolescence, needs of normal children through stages of development and parental guidance. • Growth chart. (5 hour) • Nutritional needs of infants and children principles of pediatric nutrition. (1 hour) • Breast feeding, Artificial feeding & Weaning (2 hrs) • Infancy, toddler, pre-schooler, school age child and adolescents. (1 hour) • Preventive immunization. (1 hour) 	<ul style="list-style-type: none"> • Role of play in children - Need, importance and value of play, selection of play material and nurse's role. (1 hour) 	
III (08 hours)	At the end of unit students are able to Knowledge: Know the comprehensive nursing care of neonatal problems. Skill: Develop the skill of prevention of neonatal problems. Attitude: Predict and explain the critical care concept in child health.	<ul style="list-style-type: none"> • Characteristics and care of a newborn. (1 hour) • Asphyxia neonatorum. Low birth weight infants. (1 hour) • Nursing management of common neonatal disorders. Neonatal jaundice & photo therapy. Neonatal sepsis & hypoglycemia. (3 hours) • Organization of Neonatal units, Prevention & Control of infection. Critical care concept in child health (2 hour) 	<ul style="list-style-type: none"> • Neonatal resuscitation (1 hour) 	
IV (29 hours)	At the end of unit students are able to Knowledge: Know the different types of diseases in all the body systems. Skill: Develop nursing care according to disease aspect. Attitude: Identify the children who are in vulnerable group.	<ul style="list-style-type: none"> a) Nutritional deficiency disorders. <ul style="list-style-type: none"> • Protein energy malnutrition • Vitamin deficiency disorders (Rickets, scurvy, Vit. A deficiency disorders) (2 hour) b) Respiratory diseases & disorders: <ul style="list-style-type: none"> • Acute bronchitis & Bronchiolitis 	Endocrine Disorders: <ul style="list-style-type: none"> • Juvenile Diabetes Mellitus (1 hr) Orthopedic Disorders <ul style="list-style-type: none"> • CTEV (Club foot) , Congenital hip dislocation 	

		<ul style="list-style-type: none"> • Pneumonia • Bronchial Asthma (2 hours) c) Disorders of the gastro-intestinal system: <ul style="list-style-type: none"> • Acute gastroenteritis • Tracheo esophageal fistula • Cleft lip and palate • Hypertrophic Pyloric Stenosis • Hirschsprung's disease & Intestinal Obstruction • Anorectal anomalies (3 hours) d) Cardiovascular system: <ul style="list-style-type: none"> • Rheumatic fever • Congenital heart diseases • Congestive cardiac failure. (3 hours) e) Disorders of Genito urinary System: <ul style="list-style-type: none"> • Acute glomerulo nephritis • Nephrotic Syndrome • Wilm's tumour & Congenital disorders (3 hrs) f) Neurological disorders: <ul style="list-style-type: none"> • Convulsions in children & Epilepsy • Meningitis & Encephalitis • Hydrocephalus, Meningocele and meningomyelocele (3 hours) g) Haematological disorders: <ul style="list-style-type: none"> • Anaemia & Thalassemia • Idiopathic thrombocytic Purpura & Hemophilia • Leukaemia (3 hours) h) Disorders of Skin, Eye & ENT (2 hours) i) Skin :Eczema, urticaria, scabies, pediculosis, worm infestations j) Eye & ENT : Tonsillitis, Deafness, Otorrhoea, Otitis Media, Congenital Cataract, hypertelorism k) Communicable Diseases in Children: <ul style="list-style-type: none"> • Measles/rubella, Chicken pox. Diphtheria, whooping cough. Tetanus, Poliomyelitis AIDS Tuberculosis (3 hours) l) Paediatric Emergencies: <ul style="list-style-type: none"> • Accidents, Poisoning ,Stings & Bites • Foreign bodies, Haemorrhage & Drowning, Burns (2 hours) 	<ul style="list-style-type: none"> • Fractures. (2 hrs) 	
V (04 hours)	At the end of unit students are able to Knowledge: Know the health deviation of children. Skill: Describe the health problems of children when it is deviated.	Management of challenged children: <ul style="list-style-type: none"> • Enuresis, Encopresis, temper tantrums somnambulism, juvenile delinquency, speech defects, tics, pica, antisocial behavior. (1 hour) • Socially challenged – Child abuse & child labour (1 hour) 	<ul style="list-style-type: none"> • Need for early diagnosis, treatment and rehabilitation of Mentally challenged • Mental retardation • Physically challenged • Cerebral palsy. (2 hrs) 	

Distribution of Lab Hours:

Demonstration and Practice during Lab. Hours (Total hours-10)	No. of Hours
1. Physical assessment of children	1
2. Feeding	1
3. Restraining	1
4. Collections of specimens	1
5. Enema ,bowel wash ,colostomy, irrigation	1
6. Steam and O2 inhalation, nebulization, ventilator care	1
7. Preparation to assist with diagnostic tests and operations	1
8. Examination and assessment of newborn	1
9. Neonatal resuscitation	1
10. Calculation of dosage of drugs and administration of Medications and injection.	1

Distribution of Clinical Hours:

Clinical Experience	Total Hours-240	PRACTICUM	Clinical hrs
		1. Pediatric Medical Unit	60
2. Pediatric Surgical Unit	60		
3. Intensive pediatric critical unit	30		
4. NICU	30		
5. OPD (CWC/CGC)	30		
6. Visits:-various agencies i.e. crèches, schools, nurseries ,special schools and handicapped etc	30		

TEACHING STRATEGY:

Total teaching hours: 310 hours

Lab. hours: 10 hours

Lecture: 60 hours

Clinical hours: 240 Hours

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Case Study	One	50	50
2	Case Presentation	One	25	25
3	Nursing Care Plan (one from Critical Care Unit & one from Pediatric Surgery/Medicine Unit)	Two	25	50
4	Clinical Performance Evaluation	Three Areas	50	150
5	Visit Report (Individual or Group Work)	One	25	25
Grand Total				300

TEACHING METHODS:

- Lecture, Seminar, Laboratory Demonstration, Group Discussion, Clinical Observation, Bed Side clinic, Workshops, Simulation.

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted Instruction, Flip charts, Posters, Black Board, Models, Mannequins.

LIST OF RECOMMENDED BOOKS:

- Text book of pediatrics -Marlow
- Nursing Care of Infants and Children –Wongs
- Textbook of Pediatric –Suraj Gupta
- Textbook of Pediatrics –O.P.Ghai
- Pediatric Nursing – Parul Datta

Subject No. 9
MEDICAL-SURGICAL NURSING

Total hours: 415
Lab hours: 25

Theory hours: 90
Clinical hours: 300

AIM

The purpose of this course is to widen the student's knowledge and to develop proficiency in caring for patients with Medical –Surgical Problems. This course includes review of relevant anatomy and physiology, Patho-physiology in Medical Surgical disorders and the nursing management of these conditions.

OBJECTIVES:

At the end of this course the students are able to:

1. Explain the anatomy and physiology of the various systems of the human body.
2. Explain the etiology, Patho-physiology and manifestations of the various disorders.
3. Explain the actions, side effects and nursing implications in administering drugs of various disorders.
4. Discuss the recent advancement in the investigations, treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive nursing care to the patients following the steps of the nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Provide planned and incidental health education on various aspects related to disorder and relevant care.
8. Appreciate the role of nurse in the Medical-Surgical Health Team.

COURSE CONTENTS:

Unit I - Introduction to medical surgical nursing:

- Introduction to Medical surgical nursing. Review of concepts of comprehensive nursing care in medical surgical conditions. Nurse, patient and his/her family. Functions of nurse in the outpatient department. Intensive care unit staff requirements .Clients needs and nursing care.

Unit II - Nursing management of patients with specific problems:

- Fluid and electrolyte imbalance .Dyspnea, cough and respiratory obstruction. Fever. Shock. Pain. Acute illness. Chronic illness. Terminal illness. Age and related illness. Patient undergoing surgery. Incontinence.

Unit III - Nursing management of patients with Neurological and neuro-surgical conditions:

- Review of anatomy and physiology of nervous system.
- Pathophysiology, diagnostic procedures and management of: Cerebrovascular Accident (Brain Attack). Headache and intractable pain. Epilepsy. Infectious and inflammatory diseases and trauma of the nervous system. Common disorders of the system. Recent advances in diagnostic and treatment modalities. Drugs used in these disorders. Tumors of brain and spinal cord, congenital Malformations, degenerative diseases. Cranial and Spinal Neuropathies.

Unit IV - Nursing management of patients with cardiovascular problems:

- Review of anatomy and physiology of cardiovascular system.
Pathophysiology, diagnostic procedures and management of: Ischemic Heart Disease. Cardiac Arrhythmias. Congestive heart Failure. Rheumatic and other Valvular diseases. Endocarditis, Cardiomyopathies, Congenital heart diseases, Hypertension, Heart Block. Cardiac emergency. Cardiac arrest . Acute pulmonary edema, cardiac. Tamponade, Cardiogenic Shock, Aneurysm and Periphero vascular disorders, recent advancement in cardiology.

Unit V - Nursing management of patients with Respiratory problems

- Review of anatomy and physiology of respiratory system Pathophysiology, diagnostic procedures and management of:-Upper respiratory tract infection. Bronchitis. Asthma. Emphysema, Empyema, Atelectasis, COPD. Bronchiectasis. Pneumonia. Pulmonary tuberculosis. Lung abscess. Pleural effusion. Tumors and cysts.
Chest injuries. Respiratory arrest and insufficiency.Pulmonary embolism. Drugs used in managements of these patients .Special respiratory therapies.

Unit VI - Nursing management of patients with Genito-urinary problems

- Review of anatomy and physiology Patho-physiology, diagnostic procedures and management of Genito urinary problems: Nephritis. Renal Calculus. Acute renal failure. Chronic renal failure. End stage renal disease. Special procedures, Dialysis, Renal transplant. Drugs used in the management of these patients. Congenital disorders, urinary tract infections. Benign Prostate Hypertrophy.

Unit VII - Nursing management of patients with digestive problems:

- Review of anatomy and physiology Pathophysiology, diagnostic procedures and management of digestive problems: G.I Bleeding. Peptic ulcer. Infections. Acute Abdomen. Colitis, diarrhea, dysentery & mal-absorption syndrome. Cholecystitis. Hepatitis, Hepatic Coma and Cirrhosis of Liver. Portal Hypertension. Pancreatitis. Tumors, hernias, fistulas, fissures, hemorrhoids. Drugs used in the management of such patients.

Unit VIII - Nursing management of patients with Endocrine problems

- Review of anatomy and physiology of endocrine system Pathophysiology, diagnostic procedures and management of endocrine problems: Thyroid disorders. Diabetes Mellitus. Diabetes insipidus. Adrenal tumor. Pituitary disorders. Diagnostic procedures. Nursing management of the patient with the above problems. Drugs used in Endocrine problems.

Unit IX - Nursing management of patients with Musculoskeletal problems

- Review of anatomy and physiology and Pathophysiology of patients with: Arthritis, Osteomyelitis. Bursitis. Fractures, Dislocation and trauma. Prolapsed disc. Osteomalacia and osteoporosis. Tumor. Amputation. Diagnostic procedures. Nursing management of patients with above problems. Prosthesis and rehabilitation.

Unit X - Nursing management of patients with disorders of the female reproductive tract:

- Disorders of menstruation. Infection of the genital tract. Benign and malignant tumors of the genital tract.
- R.V.F., V.V.F. Climacteric changes and associated problems.

Unit XI - Nursing management of patients with Oncological disorders:

- Types of neoplasm's and related Patho physiology. Diagnostic procedures. Modalities of treatment and nurse's role. Special therapies – Chemotherapies and radiotherapies. Preventive measures and other therapies.

Unit XII - Nursing management of patients with burns

- Nursing management of patient with reconstructive surgeries

Unit XIII - Nursing management of patients with common communicable diseases & STDs

- Nursing management of patients with immunological disorders including HIV/AIDS, Covid 19

Unit XIV - Nursing management of patients with diseases of eye, ear, nose, throat and skin.**Unit XV - Nursing management of patient with blood disorders:**

- Review of the anatomy and physiology of blood and blood products.
- Patho-physiology, diagnostic procedures and management of blood disorders – Anemia. Leukemia. Bleeding disorders. Hemophilia. Purpura, etc.
- Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records of blood transfusion.
- Management and counseling of blood donors, phlebotomy procedure and post donation management.
- Blood bank functioning and hospital transfusion committee.
- Bio safety and waste management in relation to blood transfusion.

Unit XVI - Nursing in emergencies:

- Cardiac emergencies. Trauma. Poisoning.
- Crises Management: -Thyroid crises, Hypertensive crises, adrenal crises

MEDICAL SURGICAL NURSING

Unit No. with total hours	Objectives	Contents with distributed hours		
		Must know	Desirable to know	Nice to know
I (2 hours)	At the end of unit students are able to Knowledge: Understand concept of comprehensive nursing care. Attitude: Render effective care to the client.	<ul style="list-style-type: none"> Review of concepts of comprehensive nursing care in medical surgical conditions. Nurse, patient and his/her family Functions of nurse in the outpatient department. Clients' needs and nursing care in intensive care unit. (1 hour) 	<ul style="list-style-type: none"> Introduction to Medical surgical nursing. Intensive care unit. Staff requirements. (1 hour) 	
II (9 hours)	At the end of unit students are able to Knowledge: Understand and describe nursing management of patient with specific problems like pain, shock etc. Skill: Acquire proficiency in providing comprehensive care to patients with specific problems. Attitude: Integrate this knowledge in professional practice.	Nursing management of patients with specific problems: Fluid and electrolyte imbalance. Dyspnea, cough and respiratory. Fever. Shock. Pain. Acute illness, chronic illness, Terminal illness. Age and related illness Patient undergoing surgery .Incontinence. (9 hour)		
III (10 hours)	At the end of unit students are able to Knowledge: Understand and explain the nursing management of patient with neurological conditions. Skill: Identify the nursing care needs of client and provide quality care. Attitude: Maintain respect and dignity of patient with neurological disorders.	Nursing management of patients with Neurological and neuro-surgical conditions <ul style="list-style-type: none"> Pathophysiology and management of:- Cerebro vascular Accident. Cranial, Spinal and peripheral neuropathies. Headache and intractable pain. Epilepsy. Infectious and inflammatory diseases and trauma of the nervous system. Common disorders of the system.. Recent advances in diagnostic and treatment modalities. Drugs used in these disorders (6 hours) 	<ul style="list-style-type: none"> Review of anatomy and physiology of nervous system. (1 hr) 	Diagnostic procedures. Tumors of brain and spinal cord, congenital malformations, degenerative diseases. (3 hours)
IV (10 hours)	At the end of unit students are able to Knowledge: Understand and describe nursing management of patient with cardiovascular disorders. Skill: Identify the health needs of the patients with cardiovascular problems and tries to fulfill them. Attitude: Learns to appreciate importance of time management and working under stress while rendering care to such patients.	Nursing management of patients with Cardiovascular problems <ul style="list-style-type: none"> Pathophysiology, diagnostic procedures and management of:-Ischaemic Heart Disease. Congestive heart Failure. Rheumatic and other Valvular diseases. Endocarditis, Cardiomyopathies, Congenital heart diseases, Hypertension, Heart Block. Cardiac emergency-Cardiac arrest' Acute pulmonary edema, Cardiogenic Shock & Peripheral vascular disorders. (6 hours) 	<ul style="list-style-type: none"> Review of anatomy and physiology of cardiovascular system. Cardiac Arrhythmias (2 hours) 	<ul style="list-style-type: none"> Cardiac tamponade Aneurysm. Recent advancement in cardiology (2 hours)
V (6 hours)	At the end of unit students are able to Knowledge: Understand and describe nursing management of patient with respiratory problems.	Nursing management of patients with Respiratory problems <ul style="list-style-type: none"> Upper respiratory tract infection Bronchitis 	<ul style="list-style-type: none"> Review of anatomy and physiology of respiratory system Patho-physiology, 	<ul style="list-style-type: none"> Management of:- <ul style="list-style-type: none"> ➤ Atelectasis, ➤ Lung abscess ➤ Tumors and cysts

	<p>Skill: Identify the health needs of the patients with respiratory problems and tries to fulfill them.</p> <p>Attitude: Incorporate this knowledge in rendering care to the patient.</p>	<ul style="list-style-type: none"> • Asthma • Emphysema, Empyema, COPD • Bronchiectasis • Pneumonia • Pulmonary tuberculosis • Pleural effusion • Chest injuries • Respiratory arrest and insufficiency • Pulmonary embolism (3 hours) 	<p>diagnostic procedures.</p> <ul style="list-style-type: none"> • Drugs used in management of these patients. (1 hour) 	<ul style="list-style-type: none"> ➤ Special respiratory therapies. (2 hours)
VI (5 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and describe nursing management of patient with genitor urinary problem.</p> <p>Skill: Perform nursing activities with competency while working in genito-urinary unit.</p> <p>Attitude: Appreciate the professional role of nurse.</p>	<p>Nursing management of patients with Genito-urinary problems</p> <ul style="list-style-type: none"> • Nephritis • Renal Calculus • Acute renal failure • Chronic renal failure • End stage renal disease • Congenital disorders, urinary tract infections • Benign Prostate Hypertrophy (2 hours) 	<ul style="list-style-type: none"> • Review of anatomy and physiology Patho-physiology, diagnostic procedures. • Drugs used in the management of these patients. (2 hours) 	<ul style="list-style-type: none"> • Special procedures, Dialysis, Renal transplant. (1 hours)
VII (10 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and describe nursing management of patient with digestive problem.</p> <p>Skill: Provide quality care to such patients.</p> <p>Attitude: Appreciate special needs of patients with digestive problems.</p>	<p>Nursing management of patients with digestive problems:</p> <ul style="list-style-type: none"> • G.I Bleeding .Peptic ulcer. Infections. Colitis. Diarrhea, dysentery. Cholecystitis Hepatitis .Hepatic Coma and Cirrhosis of Liver. Portal Hypertension. Pancreatitis. Tumors, hernias, fistulas, fissures, hemorrhoids (6 hours) 	<ul style="list-style-type: none"> • Review of anatomy and physiology Pathophysiology, diagnostic procedures. • Acute Abdomen. (2 hours) 	<ul style="list-style-type: none"> • Mal- absorption syndrome. • Drugs used in the management of such patients. (2 hours)
VIII (4 hours)	<p>At the end of unit students are able to</p> <p>Knowledge : Understand nursing management of patient with endocrine problem</p> <p>Skill: Contribute in special diagnostic test and educating the patients.</p> <p>Attitude: Consider specific needs of patients.</p>	<p>Nursing management of patients with Endocrine problems</p> <ul style="list-style-type: none"> • Thyroid disorders • Diabetes Mellitus • Pituitary disorders • Nursing management of the patient with the above problems. (2 hours) 	<ul style="list-style-type: none"> ▪ Review of anatomy and physiology of endocrine system ▪ Patho-physiology, diagnostic procedures. • Diabetes insipidus • Adrenal tumor • Diagnostic procedures (1 hour) 	<ul style="list-style-type: none"> • Drugs used in Endocrine problems. (1 hour)
IX (4 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Know the management of patient with musculoskeletal disorders.</p> <p>Skill: Develop competency in caring patients with musculoskeletal disorders.</p> <p>Attitude: Appreciate specific skill and knowledge required for caring such patients.</p>	<p>Nursing management of patients with Musculoskeletal problems</p> <ul style="list-style-type: none"> • Arthritis, osteomyelitis, • Fractures, dislocation and trauma • Osteomalacia and osteoporosis • Amputation • Rehabilitation. (2 hours) 	<ul style="list-style-type: none"> • Review of anatomy and physiology and Patho-physiology • Prolapsed disc • Diagnostic procedures • Prosthesis (1 hr) 	<ul style="list-style-type: none"> • Bursitis. • Tumor • Transplant and replacement surgeries (1 hour)
X (3 hours)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand and explain nursing management of female patients with reproductive disorders.</p>	<p>Nursing management of patients with disorders of the female reproductive tract</p> <ul style="list-style-type: none"> • Disorders of menstruation. 		<ul style="list-style-type: none"> • Climacteric changes and associated problems. (1 hours)

	<p>Skill : Communicate properly with patients to understand the problems Attitude: Considerate socio cultural values and beliefs in caring such patients.</p>	<ul style="list-style-type: none"> • Infection of the genital tract • Benign and malignant tumors of the genital tract • R.V.F.,V.V.F (2 hours) 		
XI (5 hours)	<p>At the end of unit students are able to Knowledge: Acquire knowledge of nursing management of a patient with oncological disorders. Skill: Contribute in special diagnostic procedure. Attitude: Maintain patient's dignity and respect.</p>	<p>Nursing management of patients with Oncological disorders</p> <ul style="list-style-type: none"> • Types of neoplasms • Modalities of treatment and nurses role • Preventive measures and other therapies (3 hours) 	<ul style="list-style-type: none"> • Diagnostic procedures • Special therapies – Chemotherapies and radiotherapies. (1 hour) 	<ul style="list-style-type: none"> • Patho physiology (1 hour)
XII (3 hours)	<p>At the end of unit students are able to Knowledge: Understand and describe nursing management patients with burns. Skill: Maintain the asepsis and prevent infections. Attitude: Develops learning attitude while caring for such patients.</p>	<p>Nursing management of patients with burns. (2 hours)</p>		<ul style="list-style-type: none"> • Nursing management of patient with reconstructive surgeries. (1 hour)
XIII (5 hours)	<p>At the end of unit students are able to Knowledge: Understand and describe the nursing management of a patient with common communicable diseases and STDs. Skill: Acquire skill required for caring immunologically compromised patients. Attitude: Maintain confidentiality.</p>	<ul style="list-style-type: none"> • Nursing management of patients with common communicable diseases & STDs (2 hours) • Nursing management of patients with immunological disorders including HIV/AIDS. Covid 19 (3 hours) 		
XIV (05 hours)	<p>At the end of unit students are able to Knowledge: Acquire knowledge of nursing management. Skill: Assist in performing diagnostic test. Attitude: Maintain dignity and respect of patient.</p>	<p>Nursing management of patients with diseases of eye, ear, nose, throat and skin. Recent advances in cataract surgeries (5 hours)</p>		
XV (06 hours)	<p>At the end of unit students are able to Knowledge: Understand and describe nursing management of patients with blood disorders. Skill: Maintain asepsis, prevent infection. Attitude: Provide emotional support to the patients.</p>	<p>Nursing management of patient with blood Disorders: Anemia. Leukemia. Bleeding disorders. Purpura etc.</p> <ul style="list-style-type: none"> • Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records of blood transfusion. • Bio safety and waste management in relation to blood transfusion (3 hrs) 	<ul style="list-style-type: none"> • Review of the anatomy and physiology of blood and blood products. Patho-physiology, diagnostic procedures. 	<ul style="list-style-type: none"> • Hemophilia • Blood bank functioning and hospital transfusion committee.(1 hour) • Management and counseling of blood donors, phlebotomy procedure and post donation management .(2 hrs)
XVI (03 hours)	<p>At the end of unit students are able to Knowledge: Enlist nursing emergency and describe management of such emergency. Skill: Work effectively as a emergency team member. Attitude: Appreciate time management devotion.</p>	<p>Nursing in emergencies</p> <ul style="list-style-type: none"> • Cardiac emergencies. Trauma. Poisoning. (1 hour) • Recent CPR guidelines by AHA and IRC 		<ul style="list-style-type: none"> • Crises Management :- Thyroid crises, Hypertensive crises, adrenal crises (2 hours)

DISTRIBUTION OF LAB HOURS:

Unit No.	UNIT NAME	LAB HOURS
III	Neurological and neuro-surgical conditions	4
IV	Cardiovascular conditions	5
V	Respiratory problems	4
VI	Genito-urinary problems	4
VII	Digestive problems	4
VIII	Endocrine problems	4

CLINICAL HOURS:

Unit	Clinical hrs	Unit	Clinical hrs
Medical Unit	90	Critical care unit	30
Surgical Unit +Burns Unit		Orthopedic unit	15
Cardiology unit	30	Ophthalmic Unit	15
Neurology unit	30	ENT and Oncology	30
Intensive care unit	30	Dialysis	15
		Skin Unit	15
Grand Total			300

TEACHING STRATEGY:

Total teaching Hours: 415

Lab Hours: 25

Theory Hours: 90

Clinical hours: 300

TEACHING METHODS: Lecture, Seminar, Laboratory Demonstration, Group Discussion, Clinical Observation, Bed Side clinic, Workshops

A. V. AIDS: Over head Projector, L.C.D, Computer Assisted Instruction, Flip charts, Posters, Black Board, Models, Simulation

ASSIGNMENT: Theory:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Case Study	One	50	50
2	Case Presentation	One	25	25
3	Nursing Care Plan	Three	25	75
4	Clinical Performance Evaluation	Three Areas	50	150
Grand Total				300

LIST OF RECOMMENDED BOOKS:

- Text book of Medical Surgical Nursing –Brunner and Suddarth
- Medical Surgical Nursing –Clinical Positive outcome-Joyce and Black
- Medical Surgical Assessment and Management of clinical problems –Lewis ,Colliner
- Medical Surgical Nursing –A Psychopathologic Approach –Luckmann and Sorensen
- Medical Surgical Nursing –A Nursing process Approach
- Medical Surgical nursing –B.T.Basvanthappa
- Medical Surgical Nursing an integrated approach;-White L,Delmar
- Moroneys Surgery for nurses –Colmer
- API Textbook of Medicine :-Shah N.S
- Pharmacology and Pharmacotherapeutics-Satoskar R.S.Bhandarkar
- Fundamental of Operation theatre Services –Datta T.K
- Essentials of Orthopaedics:-Maheshwari
- Illustrated Textbook of Dermatology-Parischa J.S.,Gupta
- Davidsons Principles and Practice of Medicine –Haslett C,Chilvers E.R.

Final Year

Subject No. 1
SOCIOLOGY

Total Hours: 60

Theory Hours: 60

AIM:

This course is to reorient students to sociology related to community and social institution in India and its relationship with health, illness and nursing.

OBJECTIVES:

At the end of course, the students are able to:

1. Describe sociological concepts that are applicable to nursing.
2. Determine the role of sociology in nursing as related to social institution in India.
3. Develop positive attitude towards individual, family and the community.

COURSE CONTENTS:

Unit I - Introduction:

- Importance of study of sociology in nursing,
- Relation of anthropology, sociology, etc.

Unit II - Individual and the society:

- Socialization
- Interdependence of the individual and the society
- Personal disorganization

Unit III - Culture:

- Nature of culture
- Evolution of culture
- Diversity and uniformity of culture

Unit IV - Social organization:

- Social groups, crowds and public groups, nations, race.
- Social Institutions: The family, marriage, education, religion, arts, economic organization, political organization.
- The urban and rural community in India: Ecology, characteristics of the village, characteristics of the town and city.
- Social stratification

Unit V - Social process:

- Process of social interaction: Competition, conflict-war, cooperation, accommodation and assimilation.

Unit VI - Social change:

- Nature and process of social change: factors influencing cultural change.
- Cultural lag

Unit VII - Social problems:

- Social disorganization, control and planning, poverty, population, housing, illiteracy, food supplies, growth of urbanization, prostitution, minority groups, rights of women and children, labor, child abuse, delinquency and crime, substance abuse Impact of pandemic in social problems.

SOCIOLOGY

<i>Unit No. & Hrs.</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must Know</i>	<i>Desirable to Know</i>	<i>Nice to Know</i>
I (02 Hrs)	At the end of unit students are able to Knowledge: Understand the importance of sociology in nursing. Skill: Identify the impact of society on health and illness. Attitude: Develop understanding for societal norms for health.	Introduction: • Importance of study of sociology in nursing, (1 hr)	• Relation of anthropology, sociology, etc. (1 hr)	
II (08 Hrs)	At the end of unit students are able to Knowledge: Explain socialization and interdependence of individual and the society. Skill: Identify the areas of interdependence of patient and society. Attitude: Appreciate societal norms for socialization.	Individual and the society: • Socialization (4 hrs)	• Individual and the Society: (02 Hrs)	• Personal disorganization. (02 Hrs)
III (08 Hrs)	At the end of unit students are able to Knowledge: Explain nature of culture and its influence on health and disease. Skill: Recognize the cultural behavior in disease conditions. Attitude: Provides culturally congruent care.	Culture: • Nature of culture.(2Hrs) • Evolution of culture.(1 Hrs) • Influence on health and disease. (2 hrs)	• Diversity and uniformity of culture. (3Hrs)	
IV (28 Hrs)	At the end of unit students are able to Knowledge: Understand and explain various social groups, social institutions, and their role in health and disease. Skill: Identify the roles and functions of different social groups and institutions and support them for the enhancement of health of people. Attitude: Articulates the help and care rendered by different social groups and institutions.	Social organization: • Social groups, crowds and public groups, nations, race. (5 hrs) • Social Institutions: The family, marriage, education, religion, arts, economic organization, political organization. (10 hrs) • The urban and rural community in India: Ecology, characteristics of the village, characteristics of the town and city. (10 hrs)	• Social stratification (3 hrs)	
V	At the end of unit students are able to Knowledge: Describe social process and its aspects.	Social process: • Process of social interaction:	• Cooperation, accommodation and	

(05Hrs)	<p>Skill: Identify social process in nurse patient relationship and establish therapeutic N-P R.</p> <p>Attitude: Use social interaction for dissemination of health information.</p>	Competition, conflict-war, cooperation, accommodation and assimilation. (4 hrs)	assimilation. (1 hr)	
VI (5Hrs)	<p>At the end of unit students are able to</p> <p>Knowledge: Describe social change and its implication to health sector.</p> <p>Skill: Provide need based service to the society.</p> <p>Attitude: Appreciate impact of science and technology on social change.</p>	<p>Social change:</p> <ul style="list-style-type: none"> • Nature and process of social change: factors influencing cultural change. (4 hrs) 	<ul style="list-style-type: none"> • Cultural lag. (1 hr) 	
VII (4 Hrs)	<p>At the end of unit students are able to</p> <p>Knowledge: Understand the reasons for social problems and their nature.</p> <p>Skill: Identify social problems and intervene promptly.</p> <p>Attitude: Strive to prevent social problems.</p>	<p>Social problems:</p> <ul style="list-style-type: none"> • Social disorganization, control and planning, poverty, population, housing, illiteracy, food supplies, growth of urbanization • Impact of covid pandemic as a social problem (2 hrs) 	<ul style="list-style-type: none"> • Child abuse, delinquency and crime, substance abuse. (1 hr) 	<ul style="list-style-type: none"> • Prostitution, minority groups, rights of women and children, labor (1 hr)

TEACHING STRATEGY:

Total teaching hours : 60

Lecture: 60

TEACHING METHODS:

- Lecture, Seminar, Symposium, Group Discussion.

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorials	Four	15	60

- Two tutorials shall be conducted in each term.

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters , Black Board.

LIST OF RECOMMENDED BOOKS:

- K.P. Neeraja. Sociology for Nursing Students. Jaypee Brothers.
- T. K. Indrani. Sociology for Nurses. Jaypee Brothers.
- K.P. Pothan and S. Pothan. Sociology for Nurses. N. R. Brothers.
- Society – An Introductory Analysis. MacIver & Page.
- Mamoria C.B. Social Problems and Social Disorganization in India.
- Manekar. Sociology for Nurses.
- B. K. Khadase. Indian society.

Subject No. 2
COMMUNITY HEALTH NURSING

Total Hours: 300

Theory Hours: 60

Clinical Hours: 240

AIM:

The course enables the students to understand the national health care delivery system and to participate in the delivery of community health nursing.

OBJECTIVES:

At the end of course, the students are able to:

1. Explain the concept of various factors contributing to health of individual, family and community.
2. Identify the role of community health nurse.
3. Describe the national health care delivery system.
4. Describe epidemiological methods and principles of prevention and control of illness in the community.
5. Identify the role of personnel working in the community health set up.
6. Plan the work of community health nurse and supervise and train health workers.

COURSE CONTENTS:

Unit I – Introduction:

- Introduction to community health – concepts, principles and elements of primary health care. Introduction to community health nursing. Concepts of community health nursing – community nursing process. Objectives, scope and principles of community health nursing.

Unit II - Family health services:

- Concepts, objectives, scope and principles. Individual, family and community as a unit of service. Principles and techniques of home visiting. Establishing working relationship with family. Working with families with relation to prevention of disease, promotion of health. Care of the sick, physically handicapped and mentally challenged in the home. Surveillance and monitoring.

Unit III - Organization and administration of health services in India:

- National health policy. Health care delivery system in India. Health team concept in – Centre, State, District, Urban health & rural health services. System of medicines. Centrally sponsored health schemes. Role of voluntary health organizations and international health agencies. Role of health personnel in the community. Public health legislations.

Unit IV - Health Education:

- Aims, Concepts and scope of health education. National plan for health education. Communication techniques. Methods and media for health education programme. Planning for health education and role of nurse.

Unit V - National health programmes:

- Maternal and child health programmes. Family welfare and school health services. Occupational health services. Role of the community health nurse as a member of the health team. Training and supervision of health care workers.

Unit VI – Epidemiology:

- Definition, concepts, aims, objectives, methods and principles. Epidemiology theories and models. Application of epidemiology, principles and concepts in community health.

Unit VII - Biostatics and vital statistics:

- Introduction, definition and scope, legislation. Report, recording and compiling of vital statistics at the local level. Definition and methods of computing vital statistics. Methods of presenting data. Management information services.

Unit VIII – Disaster Management:

- Introduction: Concept, Definition. Types of disaster. Phases of disaster.
- Disaster management: Disaster response, disaster preparedness, and disaster mitigation. Epidemiological surveillance and disease control. Team approach. Intersectoral approach: Vaccination, nutrition, and rehabilitation. Role of NGO. State and central Govt. International help and collaboration.
- Climate change, air pollution, heat waves and its impact on human health

CLINICAL WORK:

1. Each student will prepare a community profile.
2. The students will be allotted families for gaining experience in identifying family health needs, health counseling and guidance and family budgeting for optimum health.
3. The student will participate in the activities of primary health centre, sub centre, MCH centre.
4. Visits may be planned to scheduled health and welfare agencies, water purification plant, sewage disposal plant and infectious disease hospital.
5. Conduct health education programmes for individual, groups and families.

COMMUNITY HEALTH NURSING

Unit No. & Hrs.	Objectives	Contents		
		Must Know	Desirable to Know	Nice to Know
I (6Hrs)	At the end of unit students are able to Knowledge: Explain the community health nursing and discuss the principles of primary health care. Attitude: Incorporate the principles o primary care in daily practice.	Introduction to: <ul style="list-style-type: none"> Community health – concepts, principles and elements of primary health care. Introduction to community health nursing. (3Hr) Concepts of community health nursing – community nursing process. Objectives, scope and principles of community health nursing. (3 Hrs) 		
II (8Hrs)	At the end of unit students are able to: Knowledge: Differentiate community health nursing practice from hospital nursing practice. Skill: Provide effective nursing care to the individual and families in community settings. Attitude: Develops working relationship with individuals and families for improving health status.	Family health services: <ul style="list-style-type: none"> Concepts, objectives, scope and principles. Individual, family and community as a unit of service. (3 Hr) Principles and techniques of home visiting. (1Hr) Care of the sick, physically handicapped and mentally challenged in the home. (1Hrs) 	<ul style="list-style-type: none"> Establishing working relationship with family. (1Hr) Working with families with relation to prevention of disease, promotion of health. (1 Hr) 	<ul style="list-style-type: none"> Surveillance and monitoring. (1Hr)
III (10Hrs)	At the end of unit students are able to: Knowledge: Discuss the National Health policy, organization and administration of health services in India. Skill: Promotes team building activities and develops dedicated team to provide effective health services. Attitude: Appreciate the importance of contribution of each team member in achieving the goals.	Organization and administration of health services in India: <ul style="list-style-type: none"> Health care delivery system in India.(2 Hrs) Health team concept in – Centre, State, District, Urban health services, rural health services. Role of voluntary health organizations and international health agencies. Role of health personnel in the community. (5 Hr) 	<ul style="list-style-type: none"> System of medicines. Centrally sponsored health schemes. (1 Hr) 	<ul style="list-style-type: none"> National health policy. (1Hr) Public health legislations. (1Hr)
IV	At the end of unit students are able to: Knowledge: Understand and discuss the importance and principles of health education. Skill: Plan and provide effective health education to	Health Education: <ul style="list-style-type: none"> Aims, Concepts and scope of health education. (1Hrs) Methods and media for health education 	<ul style="list-style-type: none"> Communication techniques. (1Hr) 	<ul style="list-style-type: none"> National plan for health education. (1Hr)

(4 Hrs)	the individuals, families and community. Attitude: Recognize and acknowledge the importance of culture, traditions and habits while providing health education.	programme. Planning for health education and role of nurse. (1Hr)		
V (12Hrs)	At the end of unit students are able to: Knowledge: Elaborate the role of various categories of nursing personnel in implementing national health programmes. Skill: Participate effectively in implementation on national health programmes. Attitude: Appreciate the importance of inter sectoral coordination in effective implementation of national health programmes.	Role of the community health nurse National health programmes : <ul style="list-style-type: none"> • Maternal and child health programmes. (3Hrs) • Family welfare and school health services. (2Hrs) • As a member of the health team. (2Hrs) 	<ul style="list-style-type: none"> • Occupational health services. (3Hrs) • Training and supervision of health care workers. (2 Hrs) 	
VI (9Hrs)	At the end of unit students are able to: Knowledge: Understand the concept of epidemiology and its uses in community health nursing practice. Skill: Apply the knowledge of epidemiology while practicing community health nursing. Attitude: Contribute in research & epidemiological studies.	Epidemiology: <ul style="list-style-type: none"> • Definition, concepts, aims, objectives, methods and principles. (7Hrs) 	<ul style="list-style-type: none"> • Epidemiology theories and models. (1Hr) 	<ul style="list-style-type: none"> • Application of epidemiology, principles and concepts in community health.(1Hr)
VII (6Hrs)	At the end of unit students are able to: Knowledge: Understand the meaning and uses of biostatistics and vital statistics. Skill: Maintain the records and reports correctly. Attitude: Appreciate the importance of biostatistics and vital statistics.	<ul style="list-style-type: none"> • Biostatistics and vital statistics. • Introduction, definition and scope, legislation. (2Hrs) • Methods of presenting data. (1Hr) 	<ul style="list-style-type: none"> • Report, recording and compiling of vital statistics at the local level.(1Hrs) • Management information services. (1 Hr) 	<ul style="list-style-type: none"> • Definition and methods of computing vital statistics. (1Hr)
VIII (5 Hours)	At the end of unit students are able to: Knowledge: Understand the concepts of disaster. Skill: Able to seek cooperation and contribution of all in prevention and management of disaster. Attitude: Able to work as leader in disaster management.	Disaster Management: <ul style="list-style-type: none"> • Introduction: Concept, Definition. Types and phases of disaster (1 hour) • Disaster management: Disaster response, disaster preparedness, and disaster mitigation. (1 hours) • Team approach, Intersectoral approach: Vaccination, nutrition, and rehabilitation. • Role of State and central Govt.(1 hour) 	<ul style="list-style-type: none"> • Epidemiological surveillance and disease control.(1 Hrs) 	<ul style="list-style-type: none"> • Role of NGO. International assistance and collaboration. (1 hour)

TEACHING STRATEGY

Total Teaching Hours: 300

Lecture: 60

Clinical: 240

DISTRIBUTION OF CLINICAL HOURS:

Rural posting: 120 Hrs

Urban Posting: 120 Hrs

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion.

ASSIGNMENTS:

Theory:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Community Survey & Diagnosis (UPH or RPH)	One	50	50
2	Family Care Plan (Two in UPH & Two in RPH)	Four	25 For Each Area	50
3	Organizing School Health Programme (UPH or RPH) (Group Work)	One	50	50
4	Clinical Performance Evaluation (UPH 7 RPH)	Two	50	100
5	Organizing Community Health Education Program (Group Work)	One	25	25
6	Home Procedure evaluation (In UPH or RPH)	One	25	25
Grand Total				300

A. V. AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

LIST OF RECOMMENDED BOOKS:

- Park's 'Text Book of Preventive and Social Medicine', Banarasidas Bhanot Publishers, Jabalpur, India.
- 'Text Book of Preventive and Social Medicine' Dr. Gupta and others, Jaypee
- 'Essentials of Community Health Nursing' S. Kamalam, Jaypee Brothers.
- 'Community Health Nursing Principles and practice', K. K. Gulhani, Kumar Publishing House, New Delhi.
- 'Community and Public Health Nursing' Maria Stanhope & Jeanette Lancaster, Mosby Publication.
- 'Community health Nursing' B.T. Basavanthappa, Jaypee Brothers.
- 'Hand book of Preventive and Social Medicine', Vidya Ratan, Jaypee Brothers.
- 'Pocket Manuel of Community Health Nursing', Maheshwari Jaikumar, Jaypee Brothers.
- 'Evaluating Community Nursing', Karl Atkin & Others, Bailliere Tindall, London.
- 'Comprehensive Community Health Nursing' Clement Stone & Others, Mosby, Elsevier.
- 'Community Health Nursing Mannuel', Najoo Kotwal, TNAI.
- 'An Introduction to Community Health Nursing' Kasturi Sunder Rao.

Subject No. 3
MENTAL HEALTH NURSING

Total Hours: 300

Theory Hours: 60

Clinical Hours: 240

AIM:

This course enables the students to recognize and appreciate the causes, symptoms and process of abnormal human behavior. It also introduces the student to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behavior. This course helps the student to learn principles of mental health and psychiatric nursing and to develop beginning skills in the management of the mentally ill in the hospital and in the community.

OBJECTIVES:

At the end course the students are able to:

1. Identify and describe the philosophy and principles of mental health nursing.
2. Describe the historical development of mental health and psychiatric nursing.
3. Classify mental disorders.
4. Develop skill in history taking and performing mental status examination.
5. Describe etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various mental disorders.
7. Communicate therapeutically with patients and their relatives.
8. Identify role of the nurse in preventive psychiatry.
9. Identify the legal aspects in practice of mental health and psychiatric nursing.

CONTENTS:

Unit I - Introduction and Historical development:

- History of psychiatry, Historical development of mental health nursing. Philosophy, principles of mental health and psychiatric nursing. Concepts of normal and abnormal behavior. Role and qualities of mental health and psychiatric nurse. Mental health team and functions of team members. Legal aspects in psychiatry and mental health services.

Unit II - Classification and assessment of mental disorders:

- Terminology used in psychiatry, Classification of mental disorders. Etiological factors and psychopathology of mental disorders. History taking and assessment methods for mental disorders.

Unit III - Therapeutic communication:

- Communication process, Interview skills, therapeutic communication technique, nurse patient relationship, therapeutic impasses and its management, process recording.

Unit IV - Management of mental disorders:

- Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and nursing management. Nursing management of patient with following disorders: Neurotic Disorders: Anxiety neurosis, Depressive neurosis and Obsessive Compulsive Neurosis, Phobic and Somatoform disorders. Psychotic Disorders: Schizophrenic form, affective and organic psychosis. Organic brain syndrome, psychosomatic disorders. Personality disorders, Disorders of childhood and adolescence.

Unit V - Management of patient with substance use disorders:

- Substance use and misuses, Dependence, intoxication and withdrawal. Classification of psychoactive substances. Etiology and contributory factors. Psychopathology – clinical features, diagnostic criteria. Treatment and nursing management of patient with substance abuse disorders. Preventive and rehabilitative aspect of substance abuse.

Unit VI - Management of mental sub normality:

- Classification of mental sub normality. Etiological factors, psychopathology, psychometric assessment, diagnostic criteria and management of sub normality.

Unit VII - Psychiatric emergencies:

- Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and nursing management of patient with psychiatric emergencies. Crisis intervention therapy.

Unit VIII - Therapeutic modalities:

- Principles, indications, contraindications and role of nurse in various treatment methods. Therapeutic community and Milieu therapy. Occupational therapy, Psychotherapy, Behavior therapy, Group therapy, Family therapy. Pharmacotherapy, Electro convulsive therapy, other miscellaneous therapies.

Unit IX - Preventive psychiatry:

- Models of prevention. Role of nurse in preventive psychiatry. Psychiatric social work. Community mental health nursing. Community mental health agencies. National mental health programmes.
- Mental health and Covid 19 pandemic

CLINICAL WORK:

The student will be provided the opportunity to:

- Observe record and report the behavior of their selected patients.
- Record the process of interaction.
- Assess the nursing needs of their selected patients, plan and implement the nursing intervention.
- Counsel the attendant and family members of patient.
- Participate in the activities of psychiatric team.
- Write observation report after a field visit to the following places –
 - Child guidance clinic.
 - School/special schools for mentally subnormal.
 - Mental hospital, Community mental health centers and De addiction centers.

MENTAL HEALTH NURSING

Unit No. & Hrs.	Objectives	Contents with distributed hours		
		Must Know	Desirable to Know	Nice to Know
I (5 Hrs)	At the end of unit students are able to: Knowledge: Understand the historical development of mental health nursing. Skill: Apply this knowledge in patient care. Attitude: Incorporate this knowledge for better patient care.	Introduction and historical development: <ul style="list-style-type: none"> Philosophy, principles of mental health and psychiatric nursing. Role and qualities of mental health and psychiatric nurse. Mental health team and functions of team members (2 hrs) 	<ul style="list-style-type: none"> Concepts of normal and abnormal behavior Legal aspects in psychiatry and mental health services. (2 hrs) 	<ul style="list-style-type: none"> Introduction and Historical development. History of psychiatry Historical development of mental health nursing. (1 hr)
II (5 Hrs.)	Knowledge: Understand and describe classification and terminology used in mental health nursing and Know the etiology & pathophysiology of mental disorders. Skill: Apply this knowledge in clinical practice. Attitude: Incorporate with care.	Classification and Assessment of mental disorders: <ul style="list-style-type: none"> Etiological factors and psychopathology of mental disorders. History taking and assessment methods for mental disorders (3 hrs) 	<ul style="list-style-type: none"> Classification of mental disorders. (1 hr) 	<ul style="list-style-type: none"> Terminology used in psychiatry. (1 hr)
III (4 Hrs.)	Knowledge: Understand the process of therapeutic communication. Skill: Conduct interview of patient and family members effectively. Attitude: Incorporate this knowledge in nursing practice.	Therapeutic communication: <ul style="list-style-type: none"> therapeutic communication technique, nurse patient relationship, therapeutic impasses and its management, Process recording (3 hrs) 	<ul style="list-style-type: none"> Communication process. (1 Hr) 	<ul style="list-style-type: none"> Interview skills.
IV 20 Hrs.	Knowledge: Understand and describe etiology, treatment and nursing management of various mental disorders. Skill: Prepare nursing care plan as per disease condition. Attitude: Incorporate this knowledge in various types of setting.	Management of mental disorders: <ul style="list-style-type: none"> Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and nursing management. (3 hrs) Nursing management of patient with following disorders: <ul style="list-style-type: none"> Neurotic Disorders: Anxiety neurosis, Depressive neurosis, Obsessive Compulsive Neurosis, Phobic and Somatoform disorders. (6 hrs) Psychotic Disorders: Schizophrenic form, affective and organic psychosis. Organic brain syndrome, psychosomatic disorders. Personality disorders. (6 Hrs) 	<ul style="list-style-type: none"> Disorders of childhood and adolescence.(5 hrs) 	
V	Knowledge: Understand and explain the substance use disorder.	Management of patient with substance use disorders:	<ul style="list-style-type: none"> Classification of psychoactive substances. 	

(3 Hrs.)	<p>Skill: Differentiate substance use disorders from other mental health disorders.</p> <p>Attitude: Contribute effectively in management of substance abuse disorder.</p>	<ul style="list-style-type: none"> • Substance use and misuses. Dependence, intoxication and withdrawal. • Psychopathology – clinical features, diagnostic criteria. Treatment and nursing management of patient with substance abuse disorders. Preventive and rehabilitative aspect of substance abuse • (2 hrs) 	<ul style="list-style-type: none"> • Etiology and contributory factors. (1 hr) 	
VI (2 Hrs.)	<p>Knowledge: Know and explain the classification, etiology, psychopathology and management of mental sub normality.</p> <p>Skill: Identify the mental sub normality.</p> <p>Attitude: Provide effective nursing care.</p>	<p>Management of mental sub normality:</p> <ul style="list-style-type: none"> • Classification of mental sub normality. • Etiological factors, psychopathology, psychometric assessment, diagnostic criteria and management of sub normality. (2 Hrs) 		
VII (4 Hrs.)	<p>Knowledge: Understand and explain the psychiatric emergencies and its management.</p> <p>Skill: Manage psychiatric emergencies effectively.</p> <p>Attitude: Motivate community to cooperate in dealing with psychiatric emergencies.</p>	<p>Psychiatric emergencies:</p> <ul style="list-style-type: none"> • Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and nursing management of patient with psychiatric emergencies. (3 Hrs) • Crisis intervention therapy (1Hr) 		
VIII 12 Hrs.	<p>Knowledge: Understand and explain different therapeutic modalities in psychiatric nursing.</p> <p>Skill: Practice different therapies.</p> <p>Attitude: Develops positive attitude towards AYUSH.</p>	<p>Therapeutic modalities:</p> <ul style="list-style-type: none"> • Principles, indications, contraindications and role of nurse in various treatment methods. (2 Hrs) • Therapeutic community and Milieu therapy. Occupational therapy. Psychotherapy. Behavior therapy. Group therapy. Family therapy. Pharmacotherapy. Electro convulsive therapy (9 Hr) 	<ul style="list-style-type: none"> • Other miscellaneous therapies. (1 Hr) 	
IX (5 Hrs.)	<p>Knowledge: Understand and describe preventive psychiatric measurement.</p> <p>Skill: Recognizes early signs and symptoms of mental disorder.</p> <p>Attitude: Contribute effectively in National Mental Health Programme.</p>	<p>Preventive psychiatry:</p> <ul style="list-style-type: none"> • Models of prevention. Role of nurse in preventive psychiatry. Community mental health nursing. National mental health programmes. Mental Health and Covid 19 (3 Hr) 	<ul style="list-style-type: none"> • Community mental health agencies. (1 Hr) 	<ul style="list-style-type: none"> • Psychiatric social work.(1 Hr)

TEACHING STRATEGY:

Total teaching hours: 300

Lecture: 060

Clinical Hours: 240

TEACHING METHODS:

- Lecture, Seminar, Symposium, Group Discussion

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Psychiatric History Taking	Two	25	50
2	Mental Status Examination	Two	25	50
3	Process Recording	One	25	25
4	Nursing Care Plan	One	25	25
5	Case presentation	One	25	25
6	Case Study	One	50	50
7	Drug Study (Minimum 20 drugs)	One	10	10
8	Organizing Health Education Program (Group Work)	One	15	15
9	Clinical Performance Evaluation	One	50	50
Grand Total				300

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board.

LIST OF RECOMMENDED BOOKS:

- Elizabeth M. Varch, Foundation of Psychiatric Mental Health Nursing – A Clinical Approach. W.B. Saunders.
- Gail, Wiscars Stuart. Principles and Practice of Psychiatric Nursing. Mosby.
- R. Sreevani. A Guide to Mental and Psychiatric Nursing. Jaypee Brothers.
- R.Baby. Psychiatric Nursing. N. R. Brothers.
- Neeraj Ahuja. Text Book of Psychiatry for Under Graduates.
- Barker Phill. Psychiatric Mental Health Nursing – The Craft of Caring. Arnold Publication.
- Kappor Bimla. Text Book of Psychiatric Nursing – Vol 1 & 2. Kumar Publication.
- Katherine M. Fort. Psychiatric Nursing Care Plans. Mosby Year Book.
- K. Mohor Wanda. Psychiatric Mental health Nursing. Lipponcott Publication.
- Sheila M. Sparks, Cynthia M. Jalor. Nursing Diagnosis Reference manual. Spring House Corporation.

Subject No. 4
INTRODUCTION TO NURSING EDUCATION

Total Hours: 135

Theory Hours: 60

Practical/Clinical Hours: 75

AIM:

This course introduces the students to principles and concepts of education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programmes in nursing.

OBJECTIVES:

At the end of the course the students are able to:

1. Describe the philosophy and principles of education.
2. Explain the teaching learning process.
3. Develop the ability to teach, using various methods and media.
4. Describe the process of assessment.
5. Describe the administrative aspects of school of nursing.
6. Participate in planning and organizing an in service education programme.
7. Develop the basic skill of counseling and guidance.

CONTENTS:

Unit I -Introduction to education:

- Meaning, aims, functions and principles of education. Philosophy of education. Factors influencing development of philosophy of nursing education.

Unit II - Teaching learning process:

- Nature and characteristics of learning. Principles and maximums of teaching. Formulating objectives. Lesson planning.

Unit III - Methods of teaching:

- Lecture, Discussion, Demonstration, Group discussion, Project, Role play, Panel discussion, Symposium. Seminar, Field trip, Workshop, Exhibition, Programmed instructions, Computer aided learning. Clinical teaching methods: Case method, Case presentation, Nursing rounds and reports, Bedside clinic, Conference (individual and group), Recording of interaction process.

Unit IV - Educational media:

- The communication process: factors affecting communication. Purpose and types of audio visual aids.
- Graphic aids: Chalk board, charts, graphs, posters, flash cards, flannel graphs/ khadigraphs, bulletin, cartoon.
- Three dimensional aids: objects, specimen, models, puppets. Printed aids; Pamphlets and leaflets.
- Projected aids: Slides, films and television, VCR, VCP, Overhead projector, camera, microscope.
- Audio Aids; Tape recorder, public address system, computers
- Online teaching-learning methods :

Unit V -Methods of assessment:

- Purpose and scope of evaluation and assessment. Criteria for selection of assessment techniques and methods. Assessment of knowledge: Essay type questions, Short answer questions and multiple choice questions. Assessment of skills: Observational, checklist, practical examination, viva, objective structured clinical examination. Assessment of attitude: attitude scale.

Unit VI - Management of school of nursing:

- Planning and organization of school of nursing
- Recruitment of staff, budget, facilities for the school, student selection and admission procedure, administrative planning for students, welfare services for students, maintenance of school records, preparation of annual reports, INC guidelines for school of nursing.

Unit VII -Guidance and counseling:

- Definition, Basic principles, organization of guidance and counseling services counseling process. Managing disciplinary problems, management of crisis.

Unit VIII - In- service education:

- Introduction to nature and scope of in service education programme, Principles of adult learning. Planning in service education programme. Techniques and methods of staff education programme. Evaluation of in service education programme.

INTRODUCTION TO NURSING EDUCATION

Unit No. & Hrs.	Objectives	Contents with distributed hours		
		Must Know	Desirable to Know	Nice to Know
I (5 Hrs)	At the end of unit students are able to: Knowledge: Understand and explain meaning of education, its aim and functions and principles. Skill: Practice principles of education and write aims and objectives for different learning experiences. Attitude: Develop awareness of factors influencing education.	Introduction to education: <ul style="list-style-type: none"> • Meaning of education, aims, functions and principles. (2 hrs) • Philosophy of education (2 hrs) 	<ul style="list-style-type: none"> • Factors influencing development of philosophy of nursing education. (1 hr) 	
II (5 Hrs)	At the end of unit students are able to: Knowledge: Understand and explain Nature and characteristics of learning. Skill: Prepare systematic lesson plans. Attitude: Incorporate maxims of learning while organizing learning experiences.	Teaching learning process: <ul style="list-style-type: none"> • Nature and characteristics of learning. Principles and maxims of teaching. (2 hrs) • Lesson planning. (2 hrs) 	<ul style="list-style-type: none"> • Formulating objectives (1 hr) 	
III (10 Hrs)	At the end of unit students are able to: Knowledge: Understand and explain various methods of teaching. Skill: Practice teaching using different methods of teaching. Attitude: Recognize the need for a specific method of teaching for given topic.	Methods of teaching : <ul style="list-style-type: none"> • Lecture. Discussion. Demonstration. Group discussion. Project. Role play. Panel discussion. Symposium. Seminar. Field trip. Workshop. Exhibition. Programmed instructions. Computer aided learning. (6 hrs) Clinical teaching methods – <ul style="list-style-type: none"> • Case method, • Case presentation. • Nursing rounds and reports. • Bedside clinic (2 hrs) 	<ul style="list-style-type: none"> • Conference (individual and group) • Recording of interaction process. (2 hrs) 	
IV (8 Hrs)	At the end of unit students are able to: Knowledge: Describe different educational media and their use in nursing education. Skill: Develop skills in preparing and using different educational media. Attitude: Appreciate the effect of educational media on learning.	Educational media: <ul style="list-style-type: none"> • Purpose and types of audio visual aids. (1 hr) • Graphic aids: Chalk board, charts, graphs, posters, flash cards, flannel graphs/ khadigraphs, bulletin, cartoon. (2 hrs) • Three dimensional aids: objects, specimen, models, puppets. (1 hr) • Printed aids; Pamphlets and leaflets. • Projected aids: Slides, films and television, 	<ul style="list-style-type: none"> • Audio Aids; Tape recorder, public address system, computers. (1 hr) 	The communication process: factors affecting communication. (1 hr)

		VCR, VCP, Overhead projector, camera, microscope. (2 hrs)		
V (12 Hrs)	At the end of unit students are able to: Knowledge: Understand various methods of assessment. Skill: Demonstrate competence in assessment with different measures. Attitude: Be objective in assessment.	Methods of assessment: <ul style="list-style-type: none"> • Purpose and scope of evaluation and assessment. (1 hr) • Criteria for selection of assessment techniques and methods. (1 hr) • Assessment of knowledge: Essay type questions, Short answer questions and multiple choice questions. (5 hrs) • Assessment of skills: Observational, checklist, practical examination, viva, objective online assessment structured clinical examination. (4 hrs) 	<ul style="list-style-type: none"> • Assessment of attitude: attitude scale.(1 hr) 	
VI (9Hrs)	At the end of unit students are able to: Knowledge: Understand and explain various areas of management f a school of nursing. Skill: Participate in recruitment and budget for a school of nursing. Attitude: Incorporate INC guidelines for managing school of nursing.	Management of school of nursing: <ul style="list-style-type: none"> • Recruitment of staff, budget, facilities for the school, student selection and admission procedure, administrative maintenance of school records, preparation of annual reports, INC guidelines for school of nursing (7 hrs) 	<ul style="list-style-type: none"> • Planning and organization of school of nursing. • planning for welfare services for students (2 hrs) 	
VII (5 Hrs.)	At the end of unit students are able to: Knowledge: Understand the process of guidance and counseling. Skill: Identify the counseling needs of students. Attitude: Develop counseling skills.	Guidance and counseling : <ul style="list-style-type: none"> • Definition, Basic principles, organization of guidance and counseling services, counseling process. (4 hrs) 	<ul style="list-style-type: none"> • Managing disciplinary problems, management of crisis. (1 hr) 	
VIII (6 Hrs.)	At the end of unit students are able to: Knowledge: Understand and explain the need for in-service education in nursing. Skill: Plan and organize in-service education. Attitude: Learn various technique and methods of staff education.	In- service education: <ul style="list-style-type: none"> • Introduction to nature and scope of in service education programme. (1 hr) • Principles of adult learning. (1 hr) • Planning in service education programme. (2 hrs) • Evaluation of in service education programme. (1 hr) 	<ul style="list-style-type: none"> • Techniques and methods of staff education programme. (1 hr) 	

TEACHING STRATEGY:

Total teaching hours: 135

Lecture: 60

Practical (Lab work): 75

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion, Simulation, Practice Teaching online teaching learning skills

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Practice Teaching (One Lesson plan and One Demonstration)	Two	50	100
2	Preparation of Learning Resource Material: online platforms	One	50	50
3	Preparation of Master Plan and rotation plan of a given course	One	50	50
Grand Total				200

- Please Note: There is no practical examination. Marks of Practical Assignments are considered along with theory assignments.

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board

DISTRIBUTION OF LAB HOURS:

Sr. No.	Field/Area of Work	Hours to be spent
1	Preparation for Practice Teaching	20
2	Practice Teaching Peer group	30
2	Preparation of Teaching Resource Material	10
3	Preparation of Master Plan	8
4	Preparation of Rotation Plan	7
Total		75

LIST OF RECOMMENDED BOOKS:

- Aggrawal J.C, Principles, Methods & techniques of Teaching. Vikas Publishing House.
- Basavanthappa B.T , Nursing Education. Jaypee Brothers.
- Bevies EmOliva, Curriculam Building in nursing.
- George Kurian Aleyamma, Principles of curriculum development and evaluation.
- Bhatia Kamala & Bhatia B.D , Principles and Methods of Teaching. Doabra
- Guilbert J.J, Educational hand book for health Personnel
- Neeraja K.P., Text book of nursing education.
- Guinee , Kathleen K, Teaching and learning in nursing.
- Joice B, ete Models of teaching in nursing.
- Bloom, Benjamin S Ed, Taxonomy of Educational objectives: Cognitive domain.
- Billing, Diane M., Halstired & Judith a. Teaching In Nursing – A guide for faculty. W. B. Sunders & co.
- Gay L.R. Educational Evaluation and Measurement Competencies for analysis and application.
- Guilbert, J.J. Educational Handbook for health Personnel. WHO.
- Guinee, Kathleen K. Teaching & Learning in Nursing. Macmillan.
- Devis M. and others. Advancing Nursing Education worldwide. Springer Publication.
- Shankarnarayan. Methods of teaching.

Subject No. 5
INTRODUCTION TO NURSING ADMINISTRATION

Total Hours: 240

Theory Hours: 60

Practical/Clinical Hours: 180

AIM:

This course is designed to give an opportunity to the student to gain an understanding of the principles of administration and its application to nursing services. It is also intended to assist the student to develop understanding of professional leadership need.

OBJECTIVES:

At the end of course the students are able to:

1. Identify the principles of administration.
2. Describe the principles and techniques of supervision.
3. Explain the principles and methods of personnel management.
4. Explain the principles of budgeting.
5. Organize and manage the nursing unit effectively.
6. Identify dynamics of organizational behavior, style and functions of effective leadership.

CONTENTS:

Unit I -Introduction:

- Principles and practice of administration. Significance, elements and principles of administration.
- Organization of hospital – definition, aims, functions, classification and health team
- Policies of hospital, different departments with special emphasis to department of nursing and office management. Responsibilities of nursing personnel especially of ward sister, medico legal aspects, concept of cost effectiveness.

Unit II -Nursing unit management:

- Physical layout of nursing unit and necessary facilities. Factors affecting the quality of nursing care. Maintenance of therapeutic environment. Administration of unit – management of patient care. Maintenance of physical environment. Assignment of duties and time plan. Patient assignment, safety measures Prevention of accidents and infections. Maintenance of patient records and reports, legal responsibilities. Maintenance of quality of nursing care and nursing audit.

Unit III -Personnel management:

- Staff recruitment and selection, appointment, promotions, personnel policies and job description. Job analysis. Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, staff welfare and management of discipline problems.

Unit IV -Supervision:

- Principles of supervision, nature and objectives. Tools and technique of supervision. Evaluation. Nursing audit. Staff development – orientation programme. Skill training. Leadership development. Problem solving process.

Unit V -Material management:

- Principles of material management.. Quality assurance. Inventory, care of equipments, safe keeping.
Role of nursing personnel in material management

Unit VI -Financial management:

- **Budgeting, principles of budgeting. Types of Budgets.**

Unit VII –Organizational Behaviour:

- **Group Dynamics and Human Relations. Organizational Communication. Methods of Reporting. Maintaining Records and Reports. Public Relations, Leadership style and functions.**

- **Role of nurse in hospital management during pandemic like Covid 19**

CLINICAL WORK:

- **Observe the functions of nursing administration at various levels. i.e. institution, department and unit.**
- **Each student will practice ward management under supervision.**
- **Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the nursing unit.**
- **Visit to private and government hospital and write observation report.**

INTRODUCTION TO NURSING ADMINISTRATION

Unit No. & Hrs.	Objectives	Contents with distributed hours		
		Must Know	Desirable to Know	Nice to Know
I (10 Hrs)	At the end of unit students are able to: Knowledge: Understand the principles of administration. Skill: Practice the principles of administration. Attitude: Adapt as per the roles and take responsibilities appropriate to the role while working in clinical settings.	Principles and practice e of administration: <ul style="list-style-type: none"> • Significance, elements and principles of administration. (2 hrs) • Policies of hospital, different departments with special emphasis to department of nursing and office management. (3 hrs) • Responsibilities of nursing personnel especially of ward sister, medico legal aspects, concept of cost effectiveness. (3 hrs) 	<ul style="list-style-type: none"> • Organization of hospital – definition, aims, functions, classification and health team. (2 hrs) 	
II (10 Hrs)	At the end of unit students are able to: Knowledge: Understand the factors that influence the quality of nursing care. Skill: Assign patients on priority of needs and demand of degree of care. Attitude: Maintain accurate records and reports promptly to appropriate authorities. Strive to maintain therapeutic environment.	Nursing unit management: <ul style="list-style-type: none"> • Factors affecting the quality of nursing care. (1 hr) • Maintenance of therapeutic environment (1hr) • Administration of unit – management of patient care. (1 hr) • Maintenance of physical environment. Assignment of duties and time plan. Patient assignment, safety measures. Prevention of accidents and infections (2 hrs) • Maintenance of patient records and reports, legal responsibilities. (3 hrs) 	<ul style="list-style-type: none"> • Physical layout of nursing unit and necessary facilities. • Maintenance of quality of nursing care and nursing audit (2 hrs) 	
III (10 Hrs)	At the end of unit students are able to: Knowledge: Understand the staff recruitment, selection procedures and explain the staffing norms. Skill: Demonstrate innovative ideas while preparing rotation plans and assigning duties. Attitude: Develop self for managing discipline problems.	Personnel management: <ul style="list-style-type: none"> • Staff recruitment and selection, appointment, promotions, personnel policies and job description, Job analysis. (4 hrs) • Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, (5 hrs) 	<ul style="list-style-type: none"> • Staff welfare and management of discipline problems. (1 hr) 	
IV (9 Hrs)	At the end of unit students are able to: Knowledge: Understand and explain nature of supervision and different tools used for supervision. Skill: Practices principles of supervision and encourages staff develop skills. Attitude: Participate and strive to organize staff development programmes.	Supervision: <ul style="list-style-type: none"> • Principles of supervision, nature and objectives • Tools and technique of supervision. Evaluation. • Nursing audit. • Staff development – orientation programme. • Skill training. (5 hrs) 	<ul style="list-style-type: none"> • Leadership development. • Problem solving process. (4 hrs) 	
V	At the end of unit students are able to: Knowledge: Understand and explain the principles of	Material management: <ul style="list-style-type: none"> • Principles of material management. Quality 	<ul style="list-style-type: none"> • Inventory, care of equipments, safe 	

(9 Hrs)	material management. Skill: Manage materials effectively. Attitude: Demand quality material and manage them efficiently.	assurance. (3 hrs) • Role of nursing personnel in material management. (2hrs)	keeping. (4 hrs)	
VI (3 Hrs)	At the end of unit students are able to: Knowledge: Understand the principles and process of budgeting. Skill: Practice principles of budgeting while participating in budgeting process in different settings. Attitude: Demonstrate skill in budgeting for the unit.	Financial management: • Budgeting, principles of budgeting (3 hrs)		
VII (9 Hrs)	At the end of unit students are able to: Knowledge: Understand and explain group dynamics and methods of records and reports. Skill: Enhance public relations through quality care and empathetic approach towards patients. Attitude: Maintain accurate and comprehensive records and reports appropriately.	Organizational behavior, • Group dynamics and human relations, organizational communication. (3 hrs) • Methods of reporting. (1 hr) • Maintaining record and reports. (2 hrs)	• Public relations, leadership style and functions. (3 hrs)	

TEACHING STRATEGY:

Total teaching hours: 240

Lecture: 60

Clinical: 180

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Seminar	One	100	100
2	Report of Visit to ANM or/and GNM School	One	50	50
3	Report of Clinical Posting in the hospital	One	50	50
Grand Total				200

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board

DISTRIBUTION OF CLINICAL HOURS:

<i>Sr. No.</i>	<i>Area of Experience</i>	<i>Hours</i>
1	Posting in GNM /ANM School (3 day x 8 hrs)	24 hrs
2	Posting in Casualty (3 day x 8 hrs)	24 hrs
3	Visit to Hospital Stores	02 hrs
4	Posting in Medicine Wards (5 days x 8 hrs)	40 hrs
5	Posting in Surgery Wards (5 days x 8 hrs)	40 hrs
6	Posting in ICU (5 days x 8 hrs)	40 hrs
7	Posting in Matron Office (2 days x 5 hrs)	10 hrs
Total		180 hrs

LIST OF RECOMMENDED BOOKS:

- B.T. Basavanthappa, Nursing Administration. Jaypee Brothers, New Delhi.
- Jean Barret. Head Nurse – Ward management and Teaching.
- Ann malliner. Guide to Nursing Management.
- Keeth Devis. Human Relations at Work the dynamics of Organizational Behavior.
- Manmohan Prasad. Management Concept and Practice. Revised Edition. Himalaya Publishing House, Mumbai.
- Mary Lucita. Nursing Practice and Public Health Administration. B.I. Churchill Livingstone.
- Patricia's Leading and Managing in Nursing. 4th Edition. Mosby Elsevier St. Louis.
- Ruth M. Tappan. Essentials of Nursing Leadership and Management. 3rd Edition.
- Prasad L.M. Principles and Practice of Management. 6th Edition. Sultan Chand & Sons, New Delhi.

Subject No. 6

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Total Hours: 195

Theory Hours: 075

Practical/Clinical Hours: 120

SECTION A - INTRODUCTION TO NURSING RESEARCH

Total Hours: 160

Theory Hours: 40

Practical/Clinical Hours: 120

AIM:

The course is designed to assist the student to develop an understanding of basic concepts of research, use the findings of nursing research in nursing practice, apply the knowledge in conducting project(s) and solve the problems related to nursing using scientific methods.

OBJECTIVES:

At the end of course the students are able to:

1. Define the terms and concepts of nursing research.
2. Identify needs and scope of nursing research.
3. Identify and define a research problem.
4. Locate and list sources of literature for a scientific study.
5. Describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method.
6. Develop tool for data collection.
7. Conduct a research project.

CONTENTS:

Unit I -Introduction:

- Definition, Meaning, Importance of research in Nursing. Terminology. Future directions and Priorities. Problem Statement.

Unit II -Research Process:

- Nursing Process. Scientific Methods. Similarities and Differences. Problem Solving

Unit III -Research Utilization:

- Evidence Based Practice. Review of Literature. Research Critique: Definition, purposes, aspects. Barriers of research utilization..

Unit IV -Approaches to Nursing Research/Research Methodology/Research Designs:

- Definition. Classification of Research Designs. Difference between qualitative and quantitative research. Definition, Purposes, Characteristics and limitations of – Experimental, Observational and Historical studies.

Unit V -Sampling and Data Collection:

- Definition, Population. Sampling technique. Importance of sampling. Methods of data collection- Structured, unstructured. Types of tools/instruments. Preparation of data collection tools/instruments. Validity and reliability. Pilot study.

Unit VI -Analysis, interpretation and communication:

- Compilation and presentation. Interpretation of data. Writing Research report. Communicating results.

INTRODUCTION TO NURSING RESEARCH AND STATISTICS
SECTION A: INTRODUCTION TO NURSING RESEARCH

<i>Unit No. & Hrs.</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>		
		<i>Must Know</i>	<i>Desirable to Know</i>	<i>Nice to Know</i>
I (6 Hrs)	At the end of unit students are able to: Knowledge: Discuss meaning, purpose and importance of research in nursing. Skill: Use appropriate terminologies. Attitude: Contribute in ongoing research activities while working.	Introduction: <ul style="list-style-type: none"> • Definition, Meaning, Purpose, Importance of research in nursing. (2Hrs) • Terminology.(1Hr) 	<ul style="list-style-type: none"> • Problem Statement. (2Hrs) 	<ul style="list-style-type: none"> • Future Direction & Priorities. (1Hr)
II (3Hrs)	At the end of unit students are able to: Knowledge: Discuss the characteristics and scope of nursing research and compare the nursing process with research process. Skill: Use the problem solving approach in nursing practice. Attitude: Develops positive attitude towards use of scientific approach in nursing practice.	<ul style="list-style-type: none"> • Characteristics of research, scope of nursing research • Research Process & Nursing process: Similarities and Differences. • Scientific Methods. (2Hrs) 	<ul style="list-style-type: none"> • Problem solving. (1 Hr) 	
III (4Hrs)	At the end of unit students are able to: Knowledge: Elaborate the uses of nursing research in nursing practice. Skill: Find and read appropriate literature for research. Attitude: Does and accepts critique on research work which contributes in enhancing quality.	Research Utilization: <ul style="list-style-type: none"> • Evidence Based practice. • Review of Literature (2Hrs) 	<ul style="list-style-type: none"> • Research Critique- Definition, purposes and aspects.(1Hr) 	<ul style="list-style-type: none"> • Barriers of research utilization.(1Hr)
IV (10 Hrs)	At the end of unit students are able to Knowledge: Understand and discuss various research designs. Skill: Choose correct research design, analyze and develop research tools correctly. Attitude: Understand the limitations of each research design.	Approaches to Nursing Research/Research: <ul style="list-style-type: none"> • Methodology/Research Designs: Definition, Classification of research designs. (3Hrs) • Characteristics of qualitative and quantitative research. (1Hr) • Definition, purposes, characteristics of- <ul style="list-style-type: none"> • Experimental studies, • Observational studies and • Historical studies. (3Hrs) 	<ul style="list-style-type: none"> • Difference between qualitative and quantitative research. (1Hr) 	<ul style="list-style-type: none"> • Limitations of experimental studies, observational studies and historical studies. (2Hrs)
V (10Hrs)	At the end of unit students are able to Knowledge: Understand and explain the methods of data presentation.	Sampling and Data Collection: <ul style="list-style-type: none"> • Population, • Techniques of sampling. (2Hrs) 	<ul style="list-style-type: none"> • Preparation of data collection tools/instruments. 	<ul style="list-style-type: none"> • Types of tools/instruments. (2Hrs)

	<p>Skill: Present research data effectively. Attitude: Develop research attitude for improving the quality of nursing care.</p>	<ul style="list-style-type: none"> • Importance of sampling. (1Hr) • Methods of data collection- Structured, unstructured. (1Hr) • Validity and reliability. (1Hr) • Pilot study. (1Hr) 	(2Hrs)	
VI (7 Hrs)	<p>At the end of unit students are able to Knowledge: Understand and explain importance of communicating research findings. Skill: Communicate research findings effectively. Attitude: Conduct research studies and/or contribute effectively in other's research studies.</p>	<ul style="list-style-type: none"> • Analysis, Interpretation and Communicating Research findings – • Compilation and Presentation. • Interpretation of data. (4 Hrs) • Publication ethics and its importance 	<ul style="list-style-type: none"> • Communicating Research findings. (1Hr) 	<ul style="list-style-type: none"> • Writing Research Report. (2Hrs)

TEACHING STRATEGY:

Total Teaching Hours: 160

Lecture: 40

Practical (Lab work): 120

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorial : Journal Article Refernce	Two	15	30

Practical:

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Research Group Project	One	50	50

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board

LIST OF RECOMMENDED BOOKS:

- Basavanthappa B.T, Nursing Research
- Garrett H.E, Statistic in psychology & education
- Mahajan B.K. Methods in Biostatistics.
- Rose Hott & Budin. Notter's Essentials of Nursing Research 5th edition.
- Practical Nunshall, Nursing Research 3rd edition.
- P.K. Indirani, Research methods for Nurses.
- Polit, DF, & Beck C.T, Nursing Research principles & methods 7th edition.
- Polit, Beck & P Hungler, Nursing Research methods, Appraisal & Utilization
- Clifford etal, Getting Research into practice.
- Macnee C.L Understanding Nursing Research: Reading & using Research in Practice.

Subject No. 6

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Total Hours: 195

Theory Hours: 075

Practical/Clinical Hours: 120

SECTION B - INTRODUCTION TO STATISTICS

Total Hours: 35

Theory Hours: 35

AIM:

The course is designed to assist the student to develop an understanding of basic concepts of research, use the findings of nursing research in nursing practice, apply the knowledge in conducting project(s) and solve the problems related to nursing using scientific methods.

OBJECTIVES:

At the end of course the students are able to:

1. Define the terms and concepts of statistics.
2. Identify need and scope of statistics in nursing research.
3. Enumerate steps of data analysis and present data summary in tabular form.
4. Use descriptive and co relational statistics in data analysis.

CONTENTS:

Unit I -Introduction to Statistics:

- Biostatistics and Vital Statistics. Definition, meaning and uses. Notations and terminologies. Purposes/objectives.

Unit II -Presentation of Data:

- Definition. Types/Classification. Presentation of data.

Unit III -Percentile and measure of central tendency:

- Percentage and range. Percentiles. Mean. Median. Mode.
- Interrelation of mean, mode and median.

Unit IV -Probability:

- Definition and basic concept. Laws of probability.
- Theoretical Distribution: Normal Distribution, Multimodal and Binomial Distribution. Normal curve and properties.
- Mean median and mode in normal distribution, Multimodal distribution.

Unit V -Measure of Variability:

- Types of variability: Range, Average deviation, standard deviation, Standard error of mean. Coefficient of deviation. Definition and uses of ANOVA and ANCOVA.
- Uses of computers in research, statistical software's like Excel. SPSS

Unit VI -Correlation:

- Computation of correlation coefficient
- Rank Correlation coefficient
- Uses of correlation coefficient
- Inferential statistics.
-

Note: Numerical exercise to be given where ever applicable and feasible.

INTRODUCTION TO NURSING RESEARCH AND STATISTICS
SECTION B: INTRODUCTION TO STATISTICS

<i>Unit No. & Hrs.</i>	<i>Objectives</i>	<i>Contents</i>		
		<i>Must know</i>	<i>Desirable to know</i>	<i>Nice to know</i>
I (5 Hrs.)	At the end of the unit the students are able to : Knowledge: Define Biostatistics and Vital statistics. Discuss the uses of statistics in nursing. Skill: Use the appropriate notations and terminologies in research. Attitude: Incorporate the knowledge of statistics in nursing practice.	Introduction: <ul style="list-style-type: none"> • Biostatistics and Vital Statistics. • Definition, meaning and uses. • Notations and terminologies. (2Hrs) • Crude Rates and Standardized rates, ratio and estimation of trends. (2 Hrs) 	<ul style="list-style-type: none"> • Purposes/objectives. (1Hr) 	
II (5 Hrs.)	At the end of the unit the students are able to : Knowledge: Discuss the classification of data. Skill: Classify and present the data correctly. Attitude: Use the knowledge of data classification in daily nursing practice.	Data and Information: <ul style="list-style-type: none"> • Definition, • Types/Classification. (1Hr) • Presentation of data. (4Hrs) 		
III (8 Hrs.)	At the end of the unit the students are able to : Knowledge: Explain the measure of central tendency. Skill: Calculate the mean, median and mode.	Percentile and measure of central tendency: <ul style="list-style-type: none"> • Percentage and range. Percentiles. Mean. Median. Mode. (7Hrs) 		<ul style="list-style-type: none"> • Interrelation of mean, mode and median.(1Hr)
IV (8 Hrs.)	At the end of the unit the students are able to : Knowledge: Understand the normal curve and its properties. Skill: Calculate the mean, median and mode.	Probability: <ul style="list-style-type: none"> • Definition and basic concept. Laws of probability. Theoretical Distribution: Normal Distribution, Multimodal and Binomial Distribution. Normal curve and properties. (7 Hrs) 	<ul style="list-style-type: none"> • Mean median and mode in normal distribution, Multimodal distribution. (1Hr) 	
V (6 Hrs)	At the end of the unit the students are able to : Knowledge: Explain the measure of variability. Skill: Calculate the standard deviation.	Measure of Variability: Types of variability – <ul style="list-style-type: none"> • Range, Average deviation, standard deviation, Standard error of mean. Coefficient of deviation. (3 Hrs) 	<ul style="list-style-type: none"> • Definition and uses of ANOVA and ANCOVA. (2 Hrs) 	<ul style="list-style-type: none"> • Uses of computers in research. (1 Hr)
VI (3 hrs)	At the end of the unit the students are able to : Knowledge: Explain the uses of and calculate the correlation coefficient.	Correlation: <ul style="list-style-type: none"> • Uses of correlation coefficient. (1 hr) 	<ul style="list-style-type: none"> • Inferential statistics. Computation of correlation coefficient. (1 hr) 	<ul style="list-style-type: none"> • Rank Correlation coefficient. (1 hrs)

TEACHING STRATEGY:

Total Teaching Hours: 35

Lecture: 35

TEACHING METHODS:

- Lecture, Seminar, Demonstration, Symposium, Group Discussion
Simulation >

ASSIGNMENTS:**Theory:**

Sr. No.	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Tutorial	Two	15	30

A. V. AIDS:

- Over head Projector, L.C.D, Computer Assisted learning, Flip charts, Posters, Black Board

LIST OF RECOMMENDED BOOKS:

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