



Course: M.Sc.Nursing

Year: 1

### Course Outcome:

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

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

### Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
Lecture Hrs/Year	Tutorial Hrs/	Lab Hrs/Year	Seminar Hrs/Week	Credit	Internal Marks			External Marks		
					T	CE	P	EXT TH	EXT PR	
150	-	150	-	-	25	-	50	75	50	200

SEE - Semester End Examination, T - Theory, P - Practical

### Course Content

W - Weightage (%) , T - Teaching hours

Sr.	Topics	W	T
1	<b>Unit 1- Introduction :</b> Education :Definition, aims, concepts, philosophies & their education implications, Impact of Social, economical, political & technological changes on education: Professional education Current trends and issues in education Educational reforms and National Educational policy, various educational commissions-reports Trends in development of nursing education in India	7	10
2	<b>Unit 2- Teaching – Learning Process:</b> Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. Educational aims and objectives; types, domains, levels, elements and writing of educational objectives Competency based education(CBE) and outcome based education(OBE) Instructional design: Planning and designing the lesson, writing lesson plan : meaning, its need and importance, formats. Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role- play(socio- drama), clinical teaching methods, programmed instruction, self directed learning(SDL), micro teaching, computer assisted instruction (CAI), computer assisted learning (CAL)	10	20



3	<p><b>Unit 3- Instructional media and methods :</b> Key concepts in the selection and use of media in education Developing learning resource material using different media Instructional aids – types, uses, selection, preparation, utilization. Teacher’s role in procuring and managing instructional Aids – Project and non-projected aids, multi media, video-tele conferencing etc</p>	7	10
4	<p><b>Unit 4 -Measurement and evaluation:</b> Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. Criterion and norm referenced evaluation,</p>	7	10
5	<p><b>Unit 5 -Standardized and non-standardized tests:</b> Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- Essay, short answer questions and multiple choice questions. Rating scales, checklist, OSCE/OSPE(Objective structured clinical/practical examination) Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique Question bank-preparation, validation, moderation by panel, utilization Developing a system for maintaining confidentiality</p>	8	12
6	<p><b>Unit 6- Administration, Scoring and Reporting :</b> Administering a test; scoring, grading versus marks Objective tests, scoring essay test, methods of scoring, Item analysis.</p>	5	8
7	<p><b>Unit 7- Standardized Tools :</b> Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.</p>	8	12
8	<p><b>Unit 8 -Nursing Educational programs:</b> Perspectives of nursing education: Global and national. Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner programs.</p>	3	5
9	<p><b>Unit 9- Continuing Education in Nursing :</b> Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. Program planning, implementation and evaluation of continuing education programs. Research in continuing education. Distance education in nursing.</p>	8	12
10	<p><b>Unit 10 -Curriculum Development:</b> Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. Equivalency of courses: Transcripts, credit system.</p>	7	10



11	<b>Unit 11 -Teacher preparation:</b> Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, Preparation of professional teacher Organizing professional aspects of teacher preparation programs Evaluation: self and peer Critical analysis of various programs of teacher education in India.	5	8
12	<b>Unit 12- Guidance and counseling</b> Concept, principles, need, difference between guidance and counseling , trends and issues. Guidance and counseling services : diagnostic and remedial. Coordination and organization of services. Techniques of counseling : Interview, case work, characteristics of counselor, problems in counseling. Professional preparation and training for counseling.	7	10
13	<b>Unit 13- Administration of Nursing Curriculum</b> Role of curriculum coordinator – planning, implementation and evaluation. Evaluation of educational programs in nursing- course and program. Factors influencing faculty staff relationship and techniques of working together. Concept of faculty supervisor (dual) position. Curriculum research in nursing. Different models of collaboration between education and service	10	15
14	<b>Unit 14 Management of nursing educational institutions</b> Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,	5	10
15	<b>Unit 15</b> Development and maintenance of standards and accreditation in nursing education programs. Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. Role of Professional associations and unions.	3	5
<b>TOTAL</b>		<b>100</b>	<b>157</b>
<b>Reference Books</b>			
1.	<b>Comprehensive Textbook of Nursing Education (TextBook)</b> By SODHI JASPREET KAUR   JPB   First, Pub. Year 2017		
2.	<b>Nursing Education (TextBook)</b> By Basavanthappa   JPB   second edition (2009), Pub. Year 2009		
3.	<b>Nursing Education, (TextBook)</b> By Neeraja,   New Delhi, Jaypee Brother, 2004		
4.	<b>Text Book of Nursing Education (TextBook)</b> By Venkatesan Latha , Poonam Joshi   Elsevier Health   First, Pub. Year 2015		



Year: 1

Course: M.Sc.Nursing

### Course Outcome:

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

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

Teaching Scheme					Examination Scheme					Total
Lecture Hrs/Year	Tutorial Hrs/	Lab Hrs/Year	Seminar Hrs/Week	Credit	Internal Marks			External Marks		
					T	CE	P	EXT TH	EXT PR	
150	-	200	-	-	25	-	-	75	-	100

SEE - Semester End Examination, T - Theory, P - Practical

Course Content		W - Weightage (%) , T - Teaching hours	
Sr.	Topics	W	T
1	<b>Unit 1 Nursing as a Profession</b> History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, Role of regulatory bodies Professional organizations and unions-self defense, individual and collective bargaining Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. Role of research, leadership and management. Quality assurance in nursing (INC). Futuristic nursing.	7	10
2	<b>Unit 2 Health care delivery</b> Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. Health care delivery system- national, state, district and local level. Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. Patterns of nursing care delivery in India. Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non- governmental agencies. Information, education and communication (IEC). Tele-medicine.	3	5



3	<p><b>Unit 3 Genetics</b> Review of cellular division, mutation and law of inheritance, human genome project ,The Genomic era. Basic concepts of Genes, Chromosomes &amp; DNA. Approaches to common genetic disorders. Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis &amp; screening, Ethical, legal &amp; psychosocial issues in genetic testing. Genetic counseling. Practical application of genetics in nursing.</p>	7	10
4	<p><b>Unit 4 Epidemiology</b> Scope, epidemiological approach and methods, Morbidity, mortality, Concepts of causation of diseases and their screening, Application of epidemiology in health care delivery, Health surveillance and health informatics</p>	7	10
	Role of nurse		
5	<p><b>Unit 5 Bio-Psycho social pathology</b> Pathophysiology and Psychodynamics of disease causation Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage ]and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. Treatment aspects: pharmacological and pre- post operative care aspects, Cardio pulmonary resuscitation. End of life Care Infection prevention (including HIV) and standard safety measures, bio-medical waste management. Role of nurse- Evidence based nursing practice; Best practices Innovations in nursing</p>	13	20
6	<p><b>Unit 6 Philosophy and Theories of Nursing</b> Values, Conceptual models, approaches. Nursing theories: Nightingale’s, Henderson’s, Roger’s, Peplau’s, Abdella’s, Lewine’s, Orem’s, Johnson’s, King’s, Neuman’s, Roy’s, Watson parsce, etc and their applications, Health belief models, communication and management, etc Concept of Self health. Evidence based practice model.</p>	13	20
7	<p><b>Unit 7 Nursing process approach</b> Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. Methods of collection, analysis and utilization of data relevant to nursing process. Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.</p>	7	10
8	<p><b>Unit 8 Psychological aspects and Human relations</b> Human behavior, Life processes &amp; growth and development, personality development, defense mechanisms, Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young &amp; middle adult, and Older adult) Sexuality and sexual health. Stress and adaptation, crisis and its intervention, Coping with loss, death and grieving, Principles and techniques of Counseling.</p>	20	30



<b>9</b>	<b>Unit 9 Nursing practice</b> Framework, scope and trends. Alternative modalities of care, alternative systems of health and complimentary therapies. Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions. Health promotion and primary health care. Independent practice issues,- Independent nurse-midwifery practitioner. Collaboration issues and models-within and outside nursing. Models of Prevention, Family nursing, Home nursing, Gender sensitive issues and women empowerment. Disaster nursing. Geriatric considerations in nursing. Evidence based nursing practice- Best practices Trans-cultural nursing.	<b>7</b>	<b>10</b>
<b>10</b>	<b>Unit 10 Computer applications for patient care delivery system and nursing practice</b> Use of computers in teaching, learning, research and nursing practice. Windows, MS office: Word, Excel, Power Point, Internet, literature search, Statistical packages, Hospital management information system: softwares.	<b>16</b>	<b>25</b>
<b>Total</b>		<b>100</b>	<b>150</b>



**Reference Books**

1.	<b>Textbook Of Advanced Nursing Practice (TextBook)</b> By Navdeep Kaur Brar   Jaypee Brothers Medical Publishers   1, Pub. Year 2014
2.	<b>Nursing Theories: A Framework for Professional Practice (TextBook)</b> By Kathleen Masters, RN, DNS   Second, Pub. Year 2015



Course: M.Sc.Nursing

Year: 1

### Course outcome:

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

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

### Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
Lecture Hrs/Year	Tutorial Hrs/	Lab Hrs/Year	Seminar Hrs/Week	Credit	Internal Marks			External Marks		
					T	CE	P	EXT TH	EXT PR	
150	-	650	-	-	25	-	100	75	100	300

SEE - Semester End Examination, T - Theory, P - Practical

### Course Content

W - Weightage (%), T - Teaching hours

Sr.	Topics	W	T
1	<b>Unit 1 Introduction:</b> Historical development of Medical- Surgical Nursing in India. Current status of health and disease burden in India. Current concept of health. Trends & issues in Medical – Surgical Nursing. Ethical & cultural issues in Medical – Surgical Nursing. Rights of patients. National health policy, special laws & ordinances relating to older people. National goals. Five year plans. National health programs related to adult health.	3	5
2	<b>Unit 2 Health Assessment of patients</b> History taking. Physical examination of various systems. Nutritional assessment. Related investigations and diagnostic assessment.	13	20



3	<p><b>Unit 3 Care in hospital settings:</b>            Ambulatory care.            Acute and Critical care.            Long term care.            Home Health Care.            Characteristics, care models, practice settings, interdisciplinary team.            Hospitalization- effects of hospitalization on the patient &amp; family.            Stressors &amp; reactions related to disease process.            Nursing care using Nursing process approach.</p>	3	5
4	<p><b>Unit 4 Management of patients with disorders of Gastro intestinal tract</b>            Review of anatomy and physiology.            Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment- History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	7	10
5	<p><b>Unit 5 Management of patients with disorders of nervous system</b>            Review of anatomy and physiology.            Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	7	10
6	<p><b>Unit 6 Management of patients with disorders of respiratory system</b>            Review of anatomy and physiology.            Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	7	10
7	<p><b>Unit 7 Management of patients with disorders of cardio vascular system</b>            Review of anatomy and physiology.            Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	7	10



8	<p><b>Unit 8 Management of patients with disorders of blood</b></p> <p>Review of anatomy and physiology. Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management. Related research studies Evidence based nursing practice Rehabilitation and follow-up</p>	3	5
9	<p><b>Unit 9 Management of patients with disorders of genito urinary system</b></p> <p>Review of anatomy and physiology. Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management. Related research studies. Evidence based nursing practice. Rehabilitation and follow-up.</p>	7	10
10	<p><b>Unit 10 Management of patients with disorders of endocrine system</b></p> <p>Review of anatomy and physiology. Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management.  Related research studies. Evidence based nursing practice. Rehabilitation and follow-up.</p>	7	10
11	<p><b>Unit 11 Management of patients with disorders of musculo-skeletal system</b></p> <p>Review of anatomy and physiology. Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management. Related research studies. Evidence based nursing practice. Rehabilitation and follow-up.</p>	7	10
12	<p><b>Unit 12 Management of patients with disorders of integumentary system</b></p> <p>Review of anatomy and physiology. Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management. Related research studies. Evidence based nursing practice. Rehabilitation and follow-up.</p>	5	8



<p><b>13</b></p>	<p><b>Unit 13 Management of patients with disorders of Eye and ENT</b>            Review of anatomy and physiology.            Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	<p><b>4</b></p>	<p><b>5</b></p>
<p><b>14</b></p>	<p><b>Unit 14 Management of patients with disorders of reproductive system</b>            Review of anatomy and physiology.            Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	<p><b>5</b></p>	<p><b>8</b></p>
<p><b>15</b></p>	<p><b>Unit 15 Geriatric nursing</b>            Nursing Assessment-History and Physical assessment.            Ageing;            Demography; Myths and realities.            Concepts and theories of ageing.            Cognitive Aspects of Ageing.            Normal biological ageing.            Age related body systems changes.            Psychosocial Aspects of Aging.            Medications and elderly.            Stress &amp; coping in older adults.            Common Health Problems &amp; Nursing Management;            Psychosocial and Sexual.             Abuse of elderly.            Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual.            Role of nurse for caregivers of elderly.            Role of family and formal and non formal caregivers.            Use of aids and prosthesis (hearing aids, dentures,            Legal &amp; Ethical Issues.            Provisions and Programmes for elderly; privileges, Community Programs and health services;            Home and institutional care.            Issues, problems and trends.</p>	<p><b>5</b></p>	<p><b>8</b></p>
<p><b>16</b></p>	<p><b>Unit 16 Management of patients with communicable and sexually transmitted diseases:</b>            Review of immune system.            Common Disorders of immune system – HIV/AIDS.            Review of infectious disease process.            Communicable Diseases- etiology, Patho physiology, Clinical manifestations, complications, prognosis.            Health assessment-History taking, physical examination, investigation and diagnostic assessment.            Treatment modalities and trends.            Nursing management.            Related research studies.            Evidence based nursing practice.            Rehabilitation and follow-up.</p>	<p><b>5</b></p>	<p><b>8</b></p>



17	<b>Unit 17 Emergency, trauma and multi-system organ failure</b> DIC (disseminated intravascular coagulation) Trauma, burns, poisoning Etiology, Patho physiology, Clinical manifestations, complications, prognosis. Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. Nursing management. Related research studies. Evidence based nursing practice. Rehabilitation and follow-up.	5	8
<b>Total</b>		<b>100</b>	<b>150</b>

#### Reference Books

1.	<b>Brunner &amp; Suddarth's Textbook of Medical - Surgical Nursing (Set of 2 Volumes) (TextBook)</b> By Hinkle   Wolters Kluwer India Pvt. Ltd   Thirteenth edition, Pub. Year 2014
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Course: M.Sc.Nursing

Year: 1

### Course Outcome:

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

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

### Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					Total
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150	-	100	-	-	25	-	-	75	-	100

SEE - Semester End Examination, T - Theory, P - Practical

### Course Content

W - Weightage (%) , T - Teaching hours

Sr.	Topics	W	T
1	<b>Unit 1 Introduction</b> Methods of acquiring knowledge – problem solving and scientific method. Research – Definition, characteristics, purposes, kinds of research Historical Evolution of research in nursing Basic research terms Scope of nursing research: areas, problems in nursing, health and social research Concept of evidence based practice Ethics in research Overview of Research process	10	10
2	<b>Unit 2 Review of Literature</b> Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.	5	5
3	<b>Unit 3 Research Approaches and designs</b> Type: Quantitative and Qualitative Historical, survey and experimental –Characteristics, types advantages and disadvantages Qualitative: Phenomenology, grounded theory, ethnography	12	12
4	<b>Unit 4 Research problem</b> Identification of research problem Formulation of problem statement and research objectives Definition of terms Assumptions and delimitations Identification of variables Hypothesis – definition, formulation and types.	10	10
5	<b>Unit 5 Developing theoretical/conceptual framework .</b> Theories: Nature, characteristics, Purpose and uses Using, testing and developing conceptual framework, models and theories.	5	5



6	<b>Unit 6 Sampling</b> Population and sample Factors influencing sampling Sampling techniques Sample size Probability and sampling error Problems of sampling	6	6
7	<b>Unit 7 Tools and methods of Data collection</b> Concepts of data collection Data sources, methods/techniques quantitative and qualitative. Tools for data collection – types, characteristics and their development Validity and reliability of tools Procedure for data collection	20	20
8	<b>Unit 8 Implementing research plan</b> Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data	5	5
9	<b>Unit 9 Analysis and interpretation of data</b> Plan for data analysis: quantitative and qualitative Preparing data for computer analysis and presentation. Statistical analysis Interpretation of data Conclusion and generalizations Summary and discussion	10	10
10	<b>Unit 10 Reporting and utilizing research findings</b> Communication of research results; oral and written Writing research report purposes, methods and style- vancouver, American Psychological Association(APA), Campbell etc Writing scientific articles for publication: purposes & style	10	10
11	<b>Unit 11 Critical analysis of research reports and articles</b>	3	3
12	<b>Unit 12 Developing and presenting a research proposal</b>	4	4
<b>Total</b>		<b>100</b>	<b>100</b>

### Reference Books

1.	<b>Nursing Research - Generating and Assessing Evidence for Nursing Practice (TextBook)</b> By Polit   Wolters Kluwer India Pvt. Ltd   Tenth edition, Pub. Year 2016
2.	<b>Nursing Research and Statistics (TextBook)</b> By Sharma   Elsevier Health   2nd, Pub. Year 2014