



INTEGRAL UNIVERSITY, LUCKNOW
FACULTY OF NURSING
MASTER OF SCIENCE IN NURSING
SYLLABI

FIRST YEAR



Integral University, Lucknow
Integral Institute of Nursing Sciences and Research
Study and Evaluation Scheme of Postgraduate Program

Program: M.Sc. Nursing – First Year

w.e.f. Session: 2024-2025

Program Model Nursing – First Year														Semester Session 2024-2025	
S.No.	Course Code	Course Title	Type of Paper	Period per Hr./Week/Year			Evaluation Scheme				Sub. Total	Credit	Total Credit		
				L	T	P	CT	TA	Total	ESE					
THEORY															
1.	NR 501	Nursing Education	Core	4	0	0	15	10	25	75	100	4:0:0	4		
2.	NR 502	Advanced Nursing Practice	Core	4	0	1	15	10	25	75	100	4:0:1	5		
3.	NR 503	Nursing Research& Statistics	Core	4	0	1	15	10	25	75	100	4:0:1	5		
4.	NR 504	Medical Surgical Nursing I	Core/DSE	4	0	0	15	10	25	75	100	4:0:0	4		
5.	NR 505	Obstetrics & Gynaecology Nursing I	Core/DSE												
6.	NR 506	Pediatric (Child Health) Nursing I	Core/DSE												
7.	NR 507	Mental (Psychiatric) Heath Nursing I	Core/DSE												
8.	NR 508	Community Health Nursing I	Core/DSE												
PRACTICAL															
1.	NR 509	Nursing Education- Lab	Core	0	0	1	30	20	50	50	100	0:0:1	1		
2.	NR 510	Medical Surgical Nursing-I Lab	Core/DSE	0	0	4	60	40	100	100	200	0:0:4	4		
3.	NR 511	Obstetrics & Gynaecology Nursing-I Lab	Core/DSE												
4.	NR 512	Pediatric (Child Health) Nursing-I Lab	Core/DSE												
5.	NR 513	Mental (Psychiatric) Heath Nursing-I Lab	Core/DSE												
6.	NR 514	Community Health Nursing-I Lab	Core/DSE												
7.	NR 515	Clinical Posting	Core	0	0	0	0	0	0	0	0	0:0:0	0		
TOTAL				16	0	7	150	100	250	450	700	23	23		

S. No.	Course Code	Course Title	Type of Paper	Attributes							UN SDGs
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
THEORY											
1.	NR 501	Nursing Education	Core	✓	✓	✓	✓			✓	4,5,8
2.	NR 502	Advanced Nursing Practice	Core	✓		✓	✓		✓	✓	3,4,5,8,10
3.	NR 503	Nursing Research& Statistics	Core	✓		✓	✓		✓	✓	3,4,5,10
4.	NR 504	Medical Surgical Nursing I	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
5.	NR 505	Obstetrics & Gynaecology Nursing I	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
6.	NR 506	Pediatric (Child Health) Nursing I	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
7.	NR 507	Mental (Psychiatric) Heath Nursing I	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
8.	NR 508	Community Health Nursing I	Core/DSE	✓		✓	✓	✓	✓	✓	3,4,5,8,10,13
PRACTICAL											
1.	NR 509	Nursing Education Lab	Core	✓	✓	✓	✓			✓	4,5,8
2.	NR 510	Medical Surgical Nursing-I Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
3.	NR 511	Obstetrics & Gynaecology Nursing-I Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
4.	NR 512	Pediatric (Child Health) Nursing-I Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
5.	NR 513	Mental (Psychiatric) Heath Nursing-I Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
6.	NR 514	Community Health Nursing-I Lab	Core/DSE	✓		✓	✓	✓	✓	✓	3,4,5,8,10,13
7.	NR 515	Clinical Posting	Core	✓		✓	✓		✓	✓	3,4,5,8,10

L: Lecture **T:** Tutorials; **P:** Practical; **CT:** Class Test; **TA:** Teacher Assessment; **ESE:** End Semester Examination; **Sessional Total:** Class Test + Teacher Assessment; **Subject Total:** Sessional Total + End Semester Examination (ESE); **DSE:** Discipline Specific Elective; **In theory** one hour equal to one credit per week; **In clinical** four hours equal to one credit per week.



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR501	Title of the Course	Nursing Education	L	T	P	C
Year	First	Semester	Non Semester	4	-	1	5
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.						

Course Outcomes	
CO1	The Students able to explain the aims of education, philosophies, trends in education and health: its impact on nursing education, Describe the teaching learning process.
CO2	The Students able to prepare and utilize various instructional media and methods in the teaching-learning process. Demonstrate competency in teaching, using various instructional strategies. Understand and apply principles of measurement and evaluation, including the use of standardized and non-standardized tests, to assess the effectiveness of teaching and learning.
CO3	The Students able to explain the concept, principles, steps, tools and techniques of evaluation .Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude. Critically analyze the existing nursing educational programs, their problems, issues and future trends. Plan and conduct continuing nursing education programs.
CO4	The Students able to describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration. Critically analyze the existing teacher preparation programs in nursing. Demonstrate skill in guidance and counseling.
CO5	The Students able to describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience Identify research priorities in nursing education. Discuss various models of collaboration in nursing education and services. Explain the development of standards and accreditation process in nursing education programs.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction: Teaching – Learning Process	Education: Definition, aims, concepts, philosophies & their education implications, Impact of Social, economic, 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 , 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	30	CO1
II	Instructional media and methods, Measurement and evaluation, Standardized and non-standardized tests	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, multimedia, video-tele conferencing etc , 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: , 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	32	CO2
III	Administration, Scoring and Reporting:, Standardized Tools, Nursing Educational programs, Continuing Education in Nursing	Administering a test; scoring, grading versus marks, Objective tests, scoring essay test, method of scoring, Item analysis. , Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities , 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 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	37	CO3

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
IV	Curriculum Development Teacher preparation Guidance and counseling	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. 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 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	28	CO4
V	Administration of Nursing Curriculum Management of nursing educational institutions	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 Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel, 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	30	CO5

Practical :-

Framing philosophy, aims and objectives, Lesson Planning. Micro teaching-2, Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc), Preparation and utilization of instructional Aids using different media. Develop course plans, unit plans, rotation plans. Conduct a continuing education workshop, Annotated bibliography, Critical evaluation of any nursing education program offered by a selected institution, Planning and Organizing field visits, Educational visits, Field visits (INC/SNRC) to get familiar with recognition/registration process, Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc), Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

150

CO1, CO2, CO3, CO4, CO5

Reference Books:

Jaspreet Kaur Sodhi. *Comprehensive Textbook of Nursing Education (As per INC Syllabus)*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Shebeer P Basheer. *Text Book of Nursing Education*. EMMESS.

KP Neeraja. *Textbook of Nursing Education*. New Delhi: Jaypee Brothers Medical Publishers.

Jaspreet Kaur Sodhi. *Comprehensive Textbook of Nursing Education*. New Delhi: Jaypee Brothers Medical Publishers.

D Elakkuvana Bhaskara Raj, Nima Bhaskar. *Text Book of Nursing Education*. Chennai: Emmess Medical Publishers.

Sanjay Kumar Gupta. *A Textbook of Nursing Education For BSc And MSc Nursing*. Kumar Publishing House.

Sankaranarayanan. *Learning and Teaching Nursing*. New Delhi: Jaypee Brothers Medical Publishers Pvt. Ltd.

D Elakkuvana Bhaskara Raj. *Nursing Education Made Easy*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

BT Basavanthappa. *Nursing Education*. 2nd ed. 2024. New Delhi: Jaypee Brothers.

R Sudha. *Nursing Education: Principles and Concepts*. New Delhi: Jaypee Brothers Medical Publishers.

Boore. *Nursing Education*. SAGE Publishing.

Cunningham L. *Nursing Textbook Series: Nurse as Educator*. ED Tech Press Publisher.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	1	-	2	-	1	2	1	2	1	-
CO2	2	3	-	3	1	2	3	2	3	3	1
CO3	1	2	-	2	2	2	2	1	2	2	3
CO4	2	1	-	3	1	1	2	2	3	3	2
CO5	1	2	1	2	3	2	3	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR502	Title of the Course	Advance Nursing Practice	L	T	P	C
Year	First	Semester	Non Semester	4	-	1	5
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.						

Course Outcomes	
CO1	The Students able to appreciate and analyze the development of nursing as a profession. Describe ethical, legal, political, and economic aspects of health care delivery and nursing practice. Appreciate the importance of self-development and professional advancement. Describe the concept of quality control in nursing. Identify the latest trends in nursing and the basis of advanced nursing practice. Identify the scope of nursing research. Explain the role of genetics in understanding health and its implications for nursing practice.
CO2	The Students able to explain bio-psycho-social dynamics of health, lifestyle, and health care delivery system. Analyze the principles and applications of epidemiology in health and disease management.
CO3	The Students able to discuss concepts, principles, theories, models, approaches relevant to nursing and their application. Provide holistic and competent nursing care following nursing process approach.
CO4	The Students able to understand human behavior, life processes, growth and development, personality, defense mechanisms, communication, interpersonal and group dynamics, organizational behavior, basic human needs across life stages, sexuality and sexual health, stress adaptation, crisis intervention, coping with loss and grief, and counseling principles and techniques.
CO5	The Students able to describe scope of nursing practice. Describe alternative modalities of nursing care. Perform extended and expanded role of nurse. Use computer in patient care delivery system and nursing practice.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Nursing as a Profession Health care delivery , Genetics	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 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. Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era. , Basic concepts of Genes, Chromosomes & DNA. , Approaches to common genetic disorders. , Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. , Genetic counseling. Practical application of genetics in nursing.	25	CO1
II	Epidemiology Bio-Psycho social pathology	Scope, epidemiological approach and methods, Morbidity, mortality, Concepts of causation of diseases and their screening, Application of epidemiology in health care delivery, Health informatics, Role of nurse 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	30	CO2
III	Philosophy and Theories of Nursing Nursing process approach	Values, Conceptual models, approach. 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 parsee, etc and their applications, Health belief models, communication and management, etc Concept of Self health. Evidence based practice model. 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	30	CO3

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
IV	Psychological aspects and Human relations	Human behavior, Life processes & growth and development, personality development, defense mechanisms, Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) Sexuality and sexual health., Stress and adaptation, crisis and its intervention, Coping with loss, death and grieving, Principles and techniques of Counseling	30	CO4
V	Nursing practice, Computer applications for patient care delivery system and nursing practice	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. 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.	35	CO5
Practical :-				
Prepare Case studies with nursing process approach and theoretical basis, Presentation of comparative picture of theories, Family case- work using model of prevention, Annotated bibliography, Report of field visits (5)			200	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Brar NK, Rawat HC. <i>Textbook Of Advanced Nursing Practice</i> . 1st ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.				
Sripriya Gopal krishnan D. <i>Textbook of Advanced Nursing Practice for M Sc Nursing Students</i> . New Delhi: CBS Publishers and Distributors Pvt. Ltd.				
Basheer SP, Khan SY. <i>A Concise Text Book of Advanced Nursing Practice</i> . 3rd ed. Chennai: EMMESS Medical Publishers.				
Reddamma GG. <i>Advance Concepts Of Nursing Practice</i> . 1st ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. , Advance Nursing Practice, publisher S. Vikas And Company				
Kumari N. <i>Advance Nursing Practice</i> . New Delhi: S. Vikas And Company.				
Blair KA, Jansen MP. <i>Advanced Practice Nursing</i> . New York: Springer Publishing Company.				
Rahane S, Patel D. <i>Textbook of Advance Nursing Practice</i> . IIP.				
Joel LA. <i>Advanced Practice Nursing</i> . Philadelphia: F.A. Davis Company.				
McGee P, Castledine G. <i>Advanced Nursing Practice</i> . Chichester: John Wiley and Sons Ltd.				
Hart C, Bell P. <i>Advancing Nursing Practice: Exploring Roles and Opportunities for Clinicians, Educators, and Leaders</i> . Philadelphia: Wolters Kluwer.				
Hayden H. <i>Nursing Practice: Advanced Concepts and Clinical Perspectives</i> . Hayle: Hayle Publishers.				
Nettina SM, Nelson-Tuttle C. <i>Lippincott Manual of Nursing Practice</i> . Philadelphia: LWW.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	2	1	1	2	1	-	2	3	2	1
CO2	3	2	1	1	3	2	2	2	3	2	3
CO3	3	3	2	2	2	1	1	2	3	3	3
CO4	2	2	2	3	1	2	2	2	3	3	2
CO5	1	2	1	1	2	3	2	2	2	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR503	Title of the Course	Part-A: Nursing Research Part-B: Statistics	L	T	P	C
Year	First	Semester	Non Semester	4	-	1	5
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management. At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.						

Course Outcomes	
CO1	Apply principles of nursing research to identify researchable problems, formulate research objectives, and differentiate between research designs (quantitative and qualitative), with an emphasis on ethical conduct, literature review, and evidence-based practice.
CO2	Demonstrate the ability to construct a conceptual framework, select appropriate sampling techniques, and develop valid and reliable tools for quantitative and qualitative data collection in nursing research.
CO3	Develop and implement a research plan including pilot study, data collection, and data analysis using appropriate statistical tools; interpret findings and effectively communicate results through research reports, presentations, and publications.
CO4	Analyze and interpret research data using measures of central tendency, variability, and relationship; apply statistical concepts and probability theory to nursing data and health-related research.
CO5	Employ advanced statistical techniques, including parametric and non-parametric tests, experimental designs, and vital health statistics; use computer software for data analysis to enhance decision-making in nursing education and clinical research.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Review of Literature Research Approaches and designs, Research problem	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, Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature. Type: Quantitative and Qualitative , Historical, survey and experimental –Characteristics, types advantages and disadvantages Qualitative: Phenomenology, grounded theory, ethnography 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	37	CO1
II	Developing theoretical/conceptual framework, sampling, Tools and methods of Data collection	Theories: Nature, characteristics, Purpose and uses, Using, testing and developing conceptual framework, models and theories., Population and sample, Factors influencing sampling, Sampling techniques, Sample size, Probability and sampling error, Problems of sampling 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	31	CO2
III	Implementing research plan Analysis and interpretation of data Reporting and utilizing research findings	Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data Plan for data analysis: quantitative and qualitative, Preparing data for computer analysis and presentation., Statistical analysis, Interpretation of data, Conclusion and generalizations, Summary and discussion 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 Critical analysis of research reports and articles, Developing and presenting a research proposal	32	CO3
IV	Introduction, Measures of central tendency Measures of variability, Normal Distribution, Measures of relationship	Concepts, types, significance and scope of statistics, Meaning of data, sample, parameter type and levels of data and their measurement, Organization and presentation of data – Tabulation of data; Frequency distribution, Graphical and tabular presentations, Mean, Median, Mode Range, Percentiles, average deviation, quartile deviation, standard deviation, Probability, characteristics and application of normal probability curve; sampling error., Correlation – need and meaning, Rank order correlation;, Scatter diagram method, Product moment correlation, Simple linear regression analysis and prediction	26	CO4

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
V	Designs and meaning, Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) Use of statistical methods in psychology and education Application of statistics in health, Use of Computers for data analysis	Experimental designs, Comparison in pairs, randomized block design, Latin squares Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA Scaling – Z Score, Z Scaling, Standard Score and T Score, Reliability of test Scores: test-retest method, parallel forms, split half method. Ratios, Rates, Trends, Vital health statistics – Birth and death rates., Measures related to fertility, morbidity and mortality Use of statistical package.	26	CO5
Practical :-				
Annotated Bibliography of research reports and articles., Review of literature of selected topic and reporting, Formulation of problem statement, objective and hypothesis, Developing theoretical/conceptual framework., Preparation of a sample research tool, Analysis and interpretation of given data, Developing and presenting research proposal, Journal club presentation, Critical evaluation of selected research studies, Writing a scientific paper. Exercises on organization and tabulation of data, Graphical and tabular presentation of data, Calculation of descriptive and inferential statistics(chi square, t-test, correlation), Practice in using statistical package, Computing vital health statistics			100	CO1,CO2, CO3,CO4, CO5
Reference Books:				
Suresh K Sharma, <i>Nursing Research and Statistics</i> , Lotus Publisher.				
Dr Sukhpal Kaur, Dr Muthuvenkatachalam Srinivasan. <i>Nursing Research And Statistics</i> , CBS Publishers and Distributors Pvt. Ltd.				
Bharat Pareek, Raman Kalia, <i>Textbook of Nursing Research and Statistics</i> , Vision Health Publishers.				
Suresh Sharma, <i>Nursing Research and Statistics</i> , Elsevier Publishers.				
Basavanthappa BT. <i>Nursing Research and Statistics</i> . Jaypee Brothers Medical Publishers.				
Rajesh Kumar. <i>Nursing Research & Statistics</i> . Jaypee Brothers Medical Publishers.				
Nursing Research Society of India. <i>Nursing Research and Statistics</i> . Pearson Education India.				
Polit Denise. <i>Nursing Research: Generating and Assessing Evidence for Nursing Practice</i> . Wolters Kluwer.				
Sreevani Rentala. <i>Basics in Nursing Research and Biostatistics</i> . Jaypee Brothers Medical Publishers.				
Dr Myle Akshay Kiran. <i>International Textbook of Clinical Research And Key Concepts of Medical Statistics - Clinical Research and Statistics</i> . White Falcon Publishing.				
Heavey Elizabeth. <i>Statistics for Nursing: A Practical Approach</i> . Jones and Bartlett Publishers, Inc.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	1	1	-	-	3	1	-	2	2	1	3
CO2	1	2	1	1	3	1	-	2	2	2	3
CO3	1	2	1	1	3	1	-	2	2	2	3
CO4	1	1	-	1	3	1	-	1	1	1	3
CO5	1	2	1	1	3	2	1	2	2	2	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR504	Title of the Course	Clinical Speciality – I Medical Surgical Nursing	L	T	P	C
Year	First	Semester	Non Semester	4	-	4	8
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	<p>This course is common for the students undergoing clinical speciality-II in neuro science nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephro & urology nursing, gastroenterology nursing/ geriatric nursing.</p> <p>It is designed to assist students in developing expertise and in depth knowledge in the field of medical Surgical Nursing. It will help students to appreciate the patient as a holistic individual and develop skill to function as a specialized Medical-Surgical Nurse. It will further enable the student to function as educator, manager and researcher in the field of Medical – Surgical Nursing.</p>						

Course Outcomes	
CO1	The Students able to appreciate the trends & issues in the field of Medical – Surgical Nursing as a speciality. Apply concepts & theories related to health promotion. Appreciate the client as a holistic individual. Perform physical, psychosocial assessment of Medical – Surgical patients. Apply Nursing process in providing care to patients. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness. Recognize and manage emergencies with Medical- Surgical patients. Describe various recent technologies & treatment modalities in the management of critically ill patients. Appreciate the legal & ethical issues relevant to Medical – Surgical Nursing.
CO2	Enable students to manage patients with gastrointestinal, nervous system, and respiratory disorders; review anatomy and physiology relevant to these systems; assess common disorders including their etiology, pathophysiology, clinical manifestations, complications, and prognosis; conduct health assessments through history taking, physical examination, and diagnostic investigations; apply appropriate treatment modalities and trends; provide comprehensive nursing management; analyze related research studies and evidence-based nursing practices; and support rehabilitation and follow-up care for patients.
CO3	Enable students to manage patients with cardio vascular system , blood, genito urinary system, endocrine system disorders; review anatomy and physiology relevant to these systems; assess common disorders including their etiology, pathophysiology, clinical manifestations, complications, and prognosis; conduct health assessments through history taking, physical examination, and diagnostic investigations; apply appropriate treatment modalities and trends; provide comprehensive nursing management; analyze related research studies and evidence-based nursing practices; and support rehabilitation and follow-up care for patients.
CO4	Enable students to manage patients with musculo-skeletal system , integumentary system, Eye and ENT, reproductive system disorders; review anatomy and physiology relevant to these systems; assess common disorders including their etiology, pathophysiology, clinical manifestations, complications, and prognosis; conduct health assessments through history taking, physical examination, and diagnostic investigations; apply appropriate treatment modalities and trends; provide comprehensive nursing management; analyze related research studies and evidence-based nursing practices; and support rehabilitation and follow-up care for patients.
CO5	Enable students to manage patients with geriatric nursing, communicable and sexually transmitted diseases, emergency, trauma and multi-system organ failure ; review on immune systems; assess common disorders including their etiology, pathophysiology, clinical manifestations, complications, and prognosis; conduct health assessments through history taking, physical examination, and diagnostic investigations; apply appropriate treatment modalities and trends; provide comprehensive nursing management; analyze related research studies and evidence-based nursing practices; and support rehabilitation and follow-up care for patients.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Health Assessment of patients Care in hospital settings	<p>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.</p> <p>History taking, Physical examination of various systems. Nutritional assessment, Related investigations and diagnostic assessment.</p> <p>Ambulatory care, Acute and Critical care, Long term care, Home Health Care, Characteristics, care models, practice settings, interdisciplinary team, Hospitalization-effects of hospitalization on the patient & family, Stressors & reactions related to disease process, Nursing care using Nursing process approach.</p>	30	CO1
II	Management of patients with disorders of Gastro intestinal tract Management of patients with disorders of	<p>Review of anatomy and physiology, Common Disorders-etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment- History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice. Rehabilitation and follow-up.</p> <p>Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and</p>	30	CO2

	nervous system Management of patients with disorders of respiratory system	trends, Nursing management, Related research studies, Evidence based nursing practice, Rehabilitation and follow-up. Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology , Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice, Rehabilitation and follow-up.		
III	Management of patients with disorders of cardio vascular system Management of patients with disorders of blood Management of patients with disorders of genito urinary system Management of patients with disorders of endocrine system	Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical, 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. Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice, Rehabilitation and follow-up Review of anatomy and physiology. Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice. Rehabilitation and follow-up Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice. Rehabilitation and follow-up.	35	CO3
IV	Management of patients with disorders of musculo-skeletal system Management of patients with disorders of integumentary system Management of patients with disorders of Eye and ENT Management of patients with disorders of reproductive system	Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical Manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies. Evidence based nursing practice, Rehabilitation and follow-up Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice, Rehabilitation and follow-up Review of anatomy and physiology, Common Disorders-etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice. Rehabilitation and follow-up. Review of anatomy and physiology, Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis, Health assessment-History taking, physical examination, investigation and diagnostic assessment, Treatment modalities and trends, Nursing management, Related research studies, Evidence based nursing practice, Rehabilitation and follow-up	31	CO4
V	Geriatric nursing Management of patients with communicable and sexually transmitted diseases Emergency, trauma and multi-system organ	Nursing Assessment-History and Physical assessment, Ageing, Demography; Myths and realities, Concepts and theories of ageing, Cognitive Aspects of Ageing, Normal biological ageing, Age related body systems changes, Psychosocial Aspects of Aging, Medications and elderly, Stress & coping in older adults, Common Health Problems & Nursing Management, Psychosocial and Sexual, Abuse of elderly, Role For care of Role of family and formal and non-formal caregivers, Use of aids and prosthesis (hearing aids, dentures, Legal & Ethical Issues, Provisions and Programmes for elderly; privileges, Community Programs and health services; Home and institutional care, Issues, problems and trends, For care of elderly: ambulation, nutritional, Communicational, psychosocial and spiritual. Role of nurse for caregivers of elderly, Role of family and formal and non-formal caregivers, Use of aids and prosthesis (hearing aids, dentures, Legal & Ethical Issues. Provisions and Programmes for elderly; privileges, Community Programs and health services; Home and institutional care.	24	CO5

	failure	<p>Issues, problems and trends.</p> <p>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>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.</p>		
Practical :-				
Clinical presentations, History taking, Health Assessment , Nutritional Assessment , Health Education related to disease conditions, Case studies, Project work , Field visits			650	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Cecy Correia. <i>Medical Surgical Nursing Systemic Disease</i> . Jaypee Brothers Medical Publishers.				
Kanta Ajay Kumar, Lakhwinder Kaur, Sukhminder Kaur. <i>Textbook Of Medical Surgical Nursing</i> . Lotus Publishers.				
Janice L. Hinkle, Kerry H. Cheever, Suresh K. Sharma. <i>Brunner & Suddarth's Textbook Of Medical Surgical Nursing</i> . Wolters Kluwer (India) Pvt. Ltd.				
Ghosh Srinanda. <i>A Guide to Medical Surgical Nursing</i> . Jaypee Brothers Medical Publishers.				
Venkatesan. <i>Textbook Of Medical Surgical Nursing</i> . EMMESS Publishers.				
Chintamani, Mrinalini Mani. <i>Lewis's Medical-Surgical Nursing: Assessment and Management of Clinical Problems</i> . Elsevier India.				
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . Wolters Kluwer India Pvt. Ltd.				
Kochuthresiamma Thomas. <i>Medical-Surgical Nursing</i> . Jaypee Brothers Medical Publishers Pvt Ltd.				
Malarvizhi S, Renuka Gugan. <i>Black's Medical-Surgical Nursing: Clinical Management of Positive Poutcome</i> . Elsevier.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	1	2	3	2	1	1	3	2	1
CO2	3	3	2	1	2	3	2	1	3	3	2
CO3	3	3	2	1	2	3	2	1	3	3	2
CO4	3	3	2	1	2	3	2	1	3	3	2
CO5	3	3	2	1	3	3	3	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR505	Title of the Course	Clinical Speciality – I Obstetric and Gynaecological Nursing	L	T	P	C
Year	First	Semester	Non Semester	4	-	4	8
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstetric and Gynaecological nursing.						

Course Outcomes	
CO1	The Students able to provide an understanding of historical and contemporary perspectives in maternal and child health, including epidemiological aspects, issues such as age, gender, and socio-cultural factors, and preventive obstetrics. It covers national health programs like the NRHM, the role of NGOs, and the application of theories, models, and approaches in midwifery practice. Legal, ethical issues, evidence-based practice, and research priorities in obstetrics and gynecological nursing are also explored, along with human reproduction, anatomy, hormonal cycles, genetics, and clinical implications, preparing students to appreciate trends in midwifery and maternal-child health dynamics.
CO2	The Students able to describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium. Provide comprehensive nursing care to women during reproductive period and newborns. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynaecological nursing.
CO3	The Students able to identify and analyze the deviations from normal birth process and refer appropriately. Describe the role of various types of complementary and alternative therapies in obstetric and gynaecological nursing.
CO4	Students will be able to understand the physiology of puerperium and lactation, assess postnatal women, and manage minor discomforts and complications. They will demonstrate skills in lactation management, exclusive breastfeeding, and BFHI principles, apply evidence-based practices, and utilize postnatal exercises, rooming-in, bonding, and the warm chain. Students will explore the role of nurse midwifery practitioners and integrate alternative/complementary therapies in postnatal care.
CO5	The Students able to describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynaecological nursing. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation. Describe the recent advancement in contraceptive technology and birth control measures. Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Human reproduction	Historical and contemporary perspectives, Epidemiological aspects of maternal and child health, Magnitude of maternal and child health problems, Issues of maternal and child health : Age, Gender, Sexuality, psycho Socio cultural factors, Preventive obstetrics, National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGO's, Theories, models and approaches applied to midwifery practice, Role and scope of midwifery practice: Independent Nurse midwifery practitioner, Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders, Evidence based midwifery practice Research priorities in obstetric and gynecological nursing Review of anatomy and physiology of human reproductive system: male and female, Hormonal cycles, Embryology, Genetics, teratology and counseling Clinical implications.	25	CO1
II	Pregnancy	Maternal adaptation : Physiological, psychosocial Assessment–Maternal and fetal measures Maternal measures: History taking , exmanination-General, physical and obstetrical measure, identification of high risk, Fetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (Ache), Triple Test Amniocentesis, Cordocentesis, chorionic villus sampling (CVS), Biophysical- (US IMAGING, Fetal movement count, Ultra Sonography, Cardiotocography, cardio tomography, Non Stress Test(NST), Contraction stress test(CST), amnioscopy, foetoscopy, Radiological examination, Interpretation of diagnostic tests and nursing implications, Nursing management of the pregnant women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery , choice of birth setting, importance and mobilizing of transportation, prenatal counseling, role of nurse and crisis intervention, identification of high risk pregnancy and refer Alternative/complementary therapies	25	CO2
III	Normal Labour and nursing management First stage: Physiology of normal labour Second stage Third stage Fourth stage – Observation, critical analysis	Essential factors of labour, Stages and onset Use of partograph: Principles, use and critical analysis, evidence based studies, Analgesia and anesthesia in labour, Nursing management Physiology, intrapartum monitoring, Nursing management., Resuscitation , immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India), Physiology and nursing management, Various child birth practice: water birth, position change etc, Evidence based practice in relation to labour intervention	25	CO3

	and Nursing management	Alternative/complementary therapies		
	Role of nurse midwifery practitioner			
IV	Normal puerperium and nursing management Normal Newborn Role of nurse midwifery practitioner	Physiology of puerperium, Physiology of lactation, lactation management, exclusive breast feeding ,Baby friendly hospital initiative(BFHI), Assessment of postnatal women, Minor discomforts and complications of puerperium, Management of mothers during puerperium: Postnatal exercises Roo ming in, bonding, warm chain, Evidence based studies. Physiology and characteristics of normal newborn, Physical and Behavioural assessment of newborn, Needs of newborn, Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newborn nutrition, Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU, Observation and care of newborn, Parenting process. Alternative/complementary therapies	40	CO4
V	Pharmacodynamic in obstetrics Family welfare services Infertility Menopause Abortion	Drugs used in pregnancy, labour, post-partum and newborn, Calculation of drug dose and administration, Effects of drugs used, Anaesthesia and analgesia in obstetrics, Roles and responsibilities of midwifery nurse practitioner. Standing orders and protocols and use of selected lifesaving drugs and interventions of obstetric emergencies approved by the MOHF Population dynamics, Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems, Recent advancement in contraceptive technology, Role of nurses in family welfare programmes in all settings, Role of independent nurse midwifery practitioner, Family life education, Evidence based studies, Information, Education and Communication(IEC), Management information and evaluation system(MIES), Teaching and supervision of health team members Primary and secondary causes, Diagnostic procedures, Counseling: ethical and legal aspects of assisted reproductive technology (ART), Recent advancement in infertility management., Adoption procedures, Role of nurses in infertility management. Physiological, psychological and social aspects, Hormone Replacement Therapy, Surgical menopause, Counseling and guidance, Role of midwifery nurse practitioner Types, causes, Legislations, Clinical rights and professional responsibility, Abortion procedures, Complications, Nursing management, Role of midwifery nurse practitioner	35	CO5

Practical :-

Procedures observed -Diagnostic investigations : amniocentesis, chorionic villi sampling, Infertility management: artificial reproduction : artificial insemination, invitro fertilization, and related procedures Procedures assisted , Medical termination of pregnancy, Procedures performed : Antenatal assessment-20 , Postnatal assessment-20 , Assessment during labour : use of partograph – 20, Per vaginal examination-20, Conduct of normal delivery-20, Episiotomy and suturing-10, Setting up of delivery areas, Insertion of intra uterine devices(copper T) Others: Identification of high risk women and referral, Health education: to women and their families, Motivation of couples for planned parenthood	650	CO1, CO2, CO3, CO4, CO5
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Reference Books:

Annamma Jacob. <i>A Comprehensive Textbook Of Midwifery & Gynecological Nursing</i> . Jaypee Brothers Medical Publishers.
Kaur S. <i>Textbook Of Obstetric And Gynecological Nursing</i> . CBS Nursing.
Niksy Abraham. <i>Textbook of Midwifery/Obstetrics & Gynecology (OBG) Nursing - I with SBA Module</i> . Frontline Publications.
Phillip Bennett. <i>Basic Science in Obstetrics and Gynaecology</i> . Elsevier.
Ramandeep Kaur. <i>Textbook Of Midwifery/Obstetrics & Gynecology (OBG) Nursing</i> . Vision Health Sciences Publisher.
Sandeep Kaur. <i>Textbook Of Midwifery Obstetrics And Gynecology Nursing</i> . CBS Publishers and Distributors Pvt. Ltd.
Hiralal Konar. <i>DC Dutta's Textbook of Obstetrics</i> . Jaypee Brothers Medical Publishers (P) Ltd.
Raddi. <i>Principles & Practices of Obs and Gynae Nursing</i> . Elsevier.
Shivani Sharma, Neelam Kumari. <i>A Text Book Of Midwifery/Obstetrics And Gynecology (OBG) Nursing</i> . S Vikas and Company.
Kirti Harjai. <i>Textbook of Midwifery and Gynecological Nursing</i> . AITBS Publishers.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	3	2	3	2	2	1	3	3	3
CO2	3	3	2	3	2	2	2	1	3	3	2
CO3	2	2	3	1	2	2	2	1	2	3	2
CO4	3	3	2	3	3	2	2	1	3	3	3
CO5	3	3	3	2	3	2	2	1	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR506	Title of the Course	Clinical Speciality – I Child Health (Paediatric) Nursing	L	T	P	C
Year	First	Semester	Non Semester	4	-	4	8
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing.						

Course Outcomes	
CO1	The Students able to appreciate the history and developments in the field of pediatrics and pediatric nursing as a specialty . Apply the concepts of growth and development in providing care to the pediatric clients and their families. Appreciate the child as a holistic individual. Perform physical, developmental, and nutritional assessment of pediatric clients. Apply nursing process in providing nursing care to neonates & children
CO2	The Students able to integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness. Recognize and manage emergencies in neonates. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing.
CO3	Students will be able to understand the parent-child relationship, basic behavioral pediatric principles, and specific concepts/disorders such as maternal deprivation, failure to thrive, child abuse, and common behavioral problems, along with their management in child guidance clinics and explain the concept, aims, and scope of preventive pediatrics, including maternal health, immunization, nutrition, health education, and related national and international programs, and demonstrate the role of pediatric nurses in hospital and community settings.
CO4	Students will be able to describe the profile, characteristics, and assessment of newborns, including nursing care at birth and family support. They will classify and manage high-risk neonates, such as preterm, growth-retarded, and infected newborns (e.g., HIV, ophthalmia neonatorum, congenital syphilis). Additionally, they will organize neonatal care services, including NICU management, levels of care, and transport services.
CO5	Students will be able to describe IMNCI, incorporate evidence-based nursing practice, and identify research areas in pediatric and neonatal nursing. They will recognize the role of a pediatric nurse practitioner as a member of the pediatric and neonatal health team and effectively teach pediatric nursing to undergraduate students and in-service nurses.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Assessment of pediatric clients Hospitalized child	Historical development of Pediatrics and Pediatric Nursing in India;, Current status of child health in India; Trends in Pediatrics and Pediatric Nursing, Ethical and cultural issues in pediatric care, Rights of children, National health policy for children, special laws and ordinances relating to children, National goals, Five year plans, National health programs related to child health. History taking, Developmental assessment, Physical assessment, Nutritional assessment, Family assessment Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family, Stressors and reactions related to developmental stages, play activities for ill hospitalized child. Nursing care of hospitalized child and family -principles and practices	30	CO1
II	Pre-natal Pediatrics Growth and Development of children	Embryological and fetal development, Prenatal factors influencing growth and development of fetus, Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling, Importance of prenatal care and role of pediatric nurse. Principles of growth and development, Concepts and theories of growth and development, Developmental tasks and special needs from infancy to adolescence, developmental milestones, Assessment of growth and development of pediatric clients, Factors affecting growth and development.	30	CO2
III	Behavioral Pediatrics and Pediatric Nursing Preventive Pediatrics and Pediatric Nursing	Parent child relationship, Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child, Common behavioral problems and their management, Child guidance clinic. Concept, aims and scope of preventive pediatrics, Maternal health and its influence on child health antenatal aspects of preventive pediatrics, Immunization, expanded program on immunization/ universal immunization program and cold chain, Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding, Health education, nutritional education for children, Nutritional programs National and international organizations related to child health, Role of pediatric nurse in the hospital and community.	30	CO3

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
IV	Neonatal Nursing	New born baby- profile and characteristics of the new born, Assessment of the new born, Nursing care of the new born at birth, care of the new born and family, High risk newborn- pre term and term neonate and growth retarded babies, Identification and classification of neonates with infections, HIV & AIDS, Ophthalmia neonatorum, congenital syphilis, High risk new born- Identification, classification and nursing management, Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.	30	CO4
V	IMNCI	(Integrated management of neonatal and childhood illnesses)	30	CO5
Practical:-				
Clinical presentations, Growth & developmental assessment , Assessment & prescription of nursing interventions for sick children , Health education related to disease conditions, Nutritional assessment , Project work , Field visits			650	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Susamma Varghese, Anupama Susmitha. <i>Textbook of Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
Rimple Sharma. <i>Essentials of Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
Parul Datta. <i>Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
Mukesh Chandra Sharma. <i>Essentials of Pediatric Nursing</i> . Wolters Kluwer.				
Assuma Beevi. <i>Concise Textbook of Paediatric Nursing</i> . Elsevier.				
Sarkar Subrata. <i>Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
A. Judie. <i>Wong's Essentials of Pediatric Nursing: Second South Asia Edition</i> . Elsevier.				
A. Sudhakar. <i>Essentials of Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
Terri Kyle, Susanna Carman. <i>Essentials of Pediatric Nursing</i> . Lippincott Williams & Wilkins.				
Padmaja A. <i>Textbook of Child Health Nursing</i> . Jaypee Brothers Medical Publishers.				
Piyush Gupta. <i>Essential Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	-	1	1	-	-	-	3	2	-
CO2	2	2	1	3	2	2	2	1	3	3	2
CO3	3	2	2	3	2	1	3	1	3	3	3
CO4	3	2	1	1	2	1	1	0	3	2	1
CO5	3	2	3	3	3	2	2	1	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR507	Title of the Course	Clinical Speciality – I Mental Health (Psychiatric) Nursing	L	T	P	C
Year	First	Semester	Non Semester	4	-	4	8
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function psychiatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing.						

Course Outcomes	
CO1	Students will be able to analyze trends and issues in psychiatry and psychiatric nursing, explain the dynamics of personality development and human behavior, and apply principles of psychobiology and theories of personality development to nursing practice. They will also interpret mental health laws, national programs, human rights, and classification systems like ICD and DSM while recognizing the role of psychiatric nurses in multidisciplinary teams.
CO2	The Students able to describe the concepts of psychobiology in mental disorders and its implications for psychiatric nursing. Demonstrate therapeutic communications skills in all interactions. Demonstrate the role of psychiatric nurse practitioner in various therapeutic modalities. Establish and maintain therapeutic relationship with individual and groups. Uses assertive techniques in personal and professional actions.
CO3	The Students able to promotes self-esteem of clients, others and self. Apply the nursing process approach in caring for patients with mental disorders.
CO4	Students will be able to apply psycho-social and physical therapies, including individual and group therapy, family and milieu therapy, and therapeutic community interventions. They will utilize behavioral techniques such as relaxation, cognitive therapy, biofeedback, guided imagery, and reinforcement strategies, alongside creative therapies like occupational, recreational, play, music, light, color, and aroma therapy, to promote holistic care.
CO5	The Students able to describe the psychopharmacological agents, their effects and nurses role. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and mental health team. Describe various types of alternative system of medicines used in psychiatric settings. Incorporate evidence based nursing practice and identify the areas of research in the field of psychiatric nursing

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Concepts of Psychobiology Theories of Personality Development and relevance to nursing practice	Mental Health and Mental Illness, Historical perspectives, Trends, issues and magnitude, Contemporary practices, Mental health laws/Acts, National mental health program -National mental health authority, state mental health authority, Human rights of mentally ill, Mental Health/ Mental Illness Continuum, Classification of mental illnesses-ICD, DSM, Standards of Psychiatric nursing, Challenges and Scope of psychiatric nursing, Multi-disciplinary team and role of nurse, Role of psychiatric nurse- extended and expanded The Nervous System: An Anatomical Review, The Brain and limbic system, Nerve Tissue, Autonomic Nervous system, Neurotransmitters, Neuroendocrinology: Pituitary, Thyroid Gland, Circadian Rhythms, Genetics, Neuro psychiatric disorders, Psychoimmunology: Normal Immune response, Implications for psychiatric Illness, Implications for Nursing Psychoanalytic Theory- Freud's, Interpersonal Theory-Sullivan's, Theory of Psychosocial Development-Erikson's, Theory of object relations, Cognitive Development Theory, Theory of Moral Development, A Nursing Model-Hildegard E. Peplau	35	CO1
II	Stress and its management Therapeutic communication and interpersonal relationship Assertive Training	An introduction to the concepts of stress, Psychological Adaptation to stress, Stress as a Biological Response. Stress as an Environmental Event, Stress as Transaction between the Individual and the Environment. Stress management Review communication process, factors affecting communication, Communication with individuals and in groups, Techniques of therapeutic communication-touch therapy, Barrier of communication with specific reference to psychopathology, Therapeutic attitudes, Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self-Gaining self-awareness, Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship, Therapeutic impasse and its management Assertive Communication, Basic Human Rights, Response Patterns: Nonassertive Behavior, Assertive Behavior, Aggressive Behavior, Passive-Aggressive Behavior), Behavioral Components of Assertive Behavior, Techniques that Promote Assertive Behavior, Thought-Stopping Techniques Method, Role of The Nurse	25	CO2

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
III	Promoting Self-Esteem Women and Mental Health The nursing process in psychiatric/mental health nursing	Components of Self-Concept, The Development of Self-Esteem, The Manifestations of Low-Self-Esteem, Boundaries, Role of The Nurse Normal reaction to conception, pregnancy and puerperium Problems related to conception, pregnancy and puerperium and its management. Counselling – Premarital, marital and genetic Mental health assessment- History taking, mental status examination, Physical and neurological examination, Psychometric assessment, Investigations, Diagnosis and Differential diagnosis, Interpretation of investigations Nurse's role, Nursing case management Critical pathways of care, Documentation Problem-oriented recording Focus charting The PIE method	25	CO3
IV	Psycho social and physical therapies	Individual therapy, Behavioural Therapy- Relaxation therapy, cognitive therapy, positive-negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy, Group Therapy, Family Therapy, Milieu Therapy, The Therapeutic Community, Occupational therapy, Recreational therapy, Play therapy, Music therapy, Light therapy, Color therapy, Aroma therapy	35	CO4
V	Electroconvulsive Therapy Psychopharmacology Alternative systems of medicine in mental health	Historical Perspectives, Indications, Contraindications, Mechanisms of Action, Side Effects, Risks Associated with Electroconvulsive Therapy, The Role of The Nurse in Electroconvulsive Therapy Historical Perspectives, Role of a Nurse in Psychopharmacological Therapy Antianxiety Agents. Antidepressants Agents. Mood stabilizers. Antipsychotics. Sedative-Hypnotics. Central Nervous System Stimulants, Future developments Types of Therapies Herbal Medicine Unani, Siddha, Homeopathic, Acupressure and Acupuncture, Diet and Nutrition, Chiropractic Medicine, Therapeutic Touch and Massage, Yoga Pet Therapy	30	CO5
Practical:-				
History taking , Mental health assessment , Psychometric assessment , Personality assessment , Process recording , Therapies- Group Therapy, Family Therapy, Psychotherapy, Milieu Therapy, The Therapeutic Community, Occupational therapy, Recreational therapy, Play therapy, music therapy, Pet therapy, Counselling, Assisted ECT, Assisted EEG, Case studies, Case presentation , Project work, Socio and psycho drama, Field visits			650	CO1, CO2, CO3, CO4, CO5
Reference Books:				
R Sreevani. <i>A Guide To Mental Health & Psychiatric Nursing</i> . New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.				
Prakash P. <i>Textbook of Mental Health and Psychiatric Nursing</i> . New Delhi: CBS Publishers.				
Sandeep Arya, Bharat Pareek. <i>Textbook of Mental Health & Psychiatric Nursing</i> . Jaipur: Vision Health Sciences Publisher.				
Bimla Kapoor. <i>Textbook of Psychiatric Nursing</i> . Ludhiana: Kumar Publishing House.				
KP Neeraja. <i>Essential of Mental Health and Psychiatric Nursing</i> . New Delhi: Jaypee Brothers Medical Publishers.				
Sheila L. Videbevk. <i>Psychiatric Mental Health Nursing</i> . Philadelphia: Wolters Kluwer Publishers.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	1	2	2	2	1	3	2	1
CO2	3	2	2	1	2	2	2	1	3	2	1
CO3	2	2	2	2	2	1	1	2	2	2	2
CO4	3	2	3	2	3	2	2	1	3	2	1
CO5	2	2	3	1	3	2	2	1	3	2	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR508	Title of the Course	Clinical Speciality – I Community Health Nursing	L	T	P	C
Year	First	Semester	Non Semester	4	-	4	8
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	The course is designed to assist students in developing expertise and in- depth understanding in the field of Community Health Nursing. It would help students to appreciate holistic life style of individuals, families & groups and develop skills to function as Community Health Nurse specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health nursing.						

Course Outcomes	
CO1	The student will be able to appreciate the historical development of Community Health and Community Health Nursing globally and in India, recognize legal and ethical issues in community health nursing care, and understand the scope and challenges of the field. They will analyze national policies, health programs, and health indicators, evaluate socio-cultural and economic aspects, and explore innovative approaches in <u>health promotion, population control, and waste management</u> .
CO2	The Students able to appreciate role of individuals and families in promoting health of the Community. Perform physical, developmental and nutritional assessment of individuals, families and groups. Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people. Apply nursing process approach while providing care to individuals, families, groups and community. <u>Integrate the concepts of family centered nursing approach while providing care to the community.</u>
CO3	Students will be able to apply the principles of the Integrated Management of Neonatal and Childhood Illnesses (IMNCI) module and demonstrate proficiency as Skilled Birth Attendants (SBA).
CO4	Students will be able to recognize and participate in the management of emergencies, epidemics and disasters and apply principles, strategies of IEC/BCC, develop communication skills, and utilize management information systems, including records and reports. Students will be able to incorporate information technology, telemedicine, and tele-nursing in disaster settings, as well as leverage journalism, mass media, and folk media for effective communication.
CO5	The Students able to apply recent technologies and care modalities while delivering community health nursing care. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level. Incorporate evidence based nursing practice and identify the areas of research in the community settings. Participate effectively as a member of Community Health team. Coordinate and collaborate with various agencies operating in the community by using inter-sectoral approach. Teach community health nursing to undergraduates, in-service nurses and the community health workers. Demonstrate leadership and managerial abilities in community health nursing practice.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Health Population dynamics and control	Historical development of Community Health and Community health Nursing- World and India, various health and family welfare committees, Current status, trends and challenges of Community Health Nursing, Health status of the Community-community diagnosis, Scope of Community health Nursing practice, Ethical and legal issues, Socio-cultural issues in Community health Nursing, National Policies, plans and programmes : National health policy, National Population policy, National Health and welfare Programmes, National Health goals/ indicators/ Millennium developmental goals(MDG)/ Strategies, Planning process: Five year plans, National Rural Health Mission, Panchayat raj institutions Concepts, issues, Determinants, Measurements ,Alternate systems for health promotion and management of health problem, Health economics, Health technology, Genetics and health, Waste disposal, Eco system Demography, Transition and theories of population, National population policy, National population programmes, Population control and related programmes, Methods of family limiting and spacing , Research, Census, National Family Health Survey	35	CO1
II	Community Health Nursing	Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions, Community health Nursing theories and models, Quality assurance: Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits, Family nursing and Family centered nursing approach, Family health nursing process , Family health assessment ,Diagnosis ,Planning ,Intervention ,Evaluation, Nursing care for special groups: children, adolescents, adults, women, elderly, physically and mentally challenged- Urban and rural population at large, Community nutrition, Concept, role and responsibilities of community health Nurse practitioners/nurse midwifery practitioners- decision making skills, professionalism, legal issues	30	CO2

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
III	Maternal and neonatal care	IMNCI(Integrated Management of Neonatal And Childhood Illnesses) module Skilled Birth Attendant (SBA) module	45	CO3
IV	Disaster nursing (INC module on Reaching out: Nursing Care in emergencies) Information, education and communication	Disaster nursing (INC module on Reaching out Nursing Care in emergencies) IEC/BCC: Principles and strategies, Communication Skills, Management information and evaluation system: Records & reports, Information technology, Tele-medicine and tele-nursing, Journalism, Mass media, Folk media	25	CO4
V	Health care delivery system: Urban, rural, tribal and difficult areas	Health organization: National, State, District, CHC, PHC, Sub Centre, Village - Functions, Staffing, pattern of assistance, layout, drugs, equipments and supplies, Roles and Responsibilities of DPHNO, Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives, Alternative systems of medicine ,Training and supervision of health workers, Health agencies: NGO's, Roles and functions, Inter-sectoral coordination, Public private partnership , Challenges of health care delivery system	15	CO5

Practical:-

Identification of community leaders and resource persons(community mapping), Community health survey , Community health nursing process- individual, family and special groups and community, Counseling, Health education – campaign, exhibition, folk media, preparation of IEC materials, Organising and participating in special clinics/camps and national health and welfare programmes-Organise atleast one health and family welfare mela/fair (all stalls of national health and family welfare activities should be included), Estimation of Vital health statistics –Exercise, Drill for disaster preparedness, Organise atleast one in-service education to ANM's/LHV/PHN/HW, Nutrition – Exercise on nutritional assessment on dietary planning, demonstration and education for various age groups, Filling up of Records, reports and registers maintained at SC/PHC/CHC, Assist women in self breast examination, Conduct antenatal examination, Conduct vaginal examination, Conduct deliveries, Post natal visits, Perform Episiotomy and suturing, Prepare Pap smear, Conduct Insertion/Removal of IUD, Blood Slide preparation, Field visits, Maintenance of log book for various activities	650	CO1, CO2, CO3, CO4, CO5
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Reference Books:

Manivannan SD. <i>Comprehensive Textbook of Community Health Nursing</i> . CBS Publishers and Distributors Pvt. Ltd.
Prof. R.P Saxena. <i>Textbook of Community Health Nursing</i> . Lotus Publishers.
Bijayalaskhmi Dash. <i>A Comprehensive Textbook of Community Health Nursing</i> . Jaypee Brothers Medical.
S Kamalam. <i>Essentials in Community Health Nursing Practice</i> . Jaypee Brother Medical Publishers.
Veerabhadrapappa GM. <i>The Short Textbook of Community Health Nursing</i> . Jaypee Brother Medical Publishers.
Keshav Swarankar. <i>Community Health Nursing</i> . N.R. Brothers.
K K Gulani. <i>Community Health Nursing (Principles & Practices)</i> . Kumar Publishing House.
D'Souza Jacintha. <i>Manual of Community Health Nursing Practice</i> . Jaypee Brother Medical Publishers.
K Park. <i>Essentials of Community Health Nursing</i> . Bhanot.
Clement I. <i>Manual of Community Health Nursing</i> . Jaypee Brother Medical Publishers.
Baljit Kaur. <i>Community Health Nursing Procedures</i> . Jaypee Brother Medical Publishers.
Thressiamma. <i>Procedures and Theories of Community Health Nursing</i> . Jaypee Brother Medical Publishers.
Bandana. <i>Community Health Nursing</i> . Jaypee Brothers Medical Publishers Pvt. Ltd.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	1	2	1	1	1	2	2	2
CO2	2	3	1	2	2	2	2	2	3	3	2
CO3	2	1	3	1	2	1	2	1	2	2	3
CO4	1	2	1	3	2	3	3	3	3	2	1
CO5	2	3	2	3	3	3	3	3	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR509	Title of the Course	Nursing Education Lab	L	T	P	C
Year	First	Semester	Non Semester	-	-	1	1
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course aims to equip students with the skills necessary for curriculum development, including creating philosophy, objectives, syllabus planning, and lesson/unit plans for effective teaching. Students will also gain proficiency in various teaching strategies and clinical teaching methods to enhance interactive and experiential learning. The course further enables students to develop skills in using instructional media, basic computer applications, and standardized tools for evaluating nursing education programs. Additionally, students will critically evaluate nursing education programs, prepare and assess question papers, and explore the functioning of guidance and counseling centers during field visits, along with understanding the recognition and registration processes for nursing education programs.						

Course Outcomes	
CO1	The students will able to develop skills in curriculum construction, including philosophy, objectives, syllabus planning, and lesson/unit plans for effective teaching. Demonstrate proficiency in diverse teaching strategies and clinical teaching methods to facilitate interactive and experiential learning.
CO2	The students will able to develop skills in preparing and using diverse instructional media and basic computer applications for nursing education.
CO3	The students will able to administer, score, and report using standardized tools for nursing education programs. Critically evaluate nursing education programs in selected institutions. Prepare, administer, and evaluate question papers using blueprints and specifications. Develop and assess objective, essay-type, and clinical evaluation tools. Utilize rating scales, observation checklists, attitude scales, OSCEs, and summated scales. Observe and practice with non-standardized tests, including intelligence, aptitude, personality, and disability assessments. Perform item analysis and conduct continuing education workshops. Prepare annotated bibliographies.
CO4	Students will observe the functioning, management, and service delivery of guidance and counseling centers during the field visit.
CO5	The students will able to Critically evaluate of a nursing education program includes planning and organizing field visits to understand INC/SNRC recognition/registration processes and DCERT requirements.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Curriculum Construction, Teaching-Learning Process	Framing philosophy, aims and objectives, Syllabus/Course Planning, Unit Plan, Lesson Planning, Master Plan, Clinical Rotation- Hospital, Community. Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods- Nursing Clinic-1, Nursing rounds-1, Case analysis-1, Process recording-1, Group health teaching-1, Simulation, symposium, computer assisted learning etc)	150 Hrs.	CO1
II	Instructional media and methods	Preparation and utilization of instructional Aids using different media: Slides, OHP transparencies, Models, Flash cards/Flip chart, LCD/Power point, Basic computer application: use of television and video in nursing		CO2
III	Administration, Scoring & Reporting, Standardized Tools	Critical evaluation of any nursing education program offered by a selected institution: Evaluation tools- Preparation of question paper, Blue print/ table of specification, Construct administer & evaluate- Question paper, Objective type, Essay type. Construct, administer & evaluate clinical-Evaluation tool in the form of: Rating scale, observation check list, attitude scale, OSCE, Differential scale, Summated scales, Anecdotal records. Observe & practice: Non standardized test, intelligence test, aptitude test, personality test, physical and mental disability test, sociometry. Item Analysis, Conduct a continuing education workshop. Annotated bibliography.		CO3
IV	Guidance & Counseling	Field visit : Guidance & counseling centres		CO4
V	Critical evaluation of an institutional nursing education programme.	Planning and Organizing Field & Educational visits. Field visits (INC/SNRC) to get familiar with recognition/registration process. DCERT.		CO5

Reference Books:	
Jaspreet Kaur Sodhi. <i>Comprehensive Textbook of Nursing Education (As per INC Syllabus)</i> . New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.	
Shebeer P Basheer. <i>Text Book of Nursing Education</i> . EMMESS.	
KP Neeraja. <i>Textbook of Nursing Education</i> . New Delhi: Jaypee Brothers Medical Publishers.	
Jaspreet Kaur Sodhi. <i>Comprehensive Textbook of Nursing Education</i> . New Delhi: Jaypee Brothers Medical Publishers.	
D Elakkuvana Bhaskara Raj, Nima Bhaskar. <i>Text Book of Nursing Education</i> . Chennai: Emmess Medical Publishers.	
Sanjay Kumar Gupta. <i>A Textbook of Nursing Education For BSc And MSc Nursing</i> . Kumar Publishing House.	
Sankaranarayanan. <i>Learning and Teaching Nursing</i> . New Delhi: Jaypee Brothers Medical Publishers Pvt. Ltd.	
D Elakkuvana Bhaskara Raj. <i>Nursing Education Made Easy</i> . New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.	
BT Basavanthappa. <i>Nursing Education</i> . 2nd ed. 2024. New Delhi: Jaypee Brothers.	
R Sudha. <i>Nursing Education: Principles and Concepts</i> . New Delhi: Jaypee Brothers Medical Publishers.	
Boore. <i>Nursing Education</i> . SAGE Publishing.	

Cunningham L. <i>Nursing Textbook Series: Nurse as Educator</i> .
e-Learning Source:

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	3	2	2	2	3	3	2	2
CO2	2	2	2	3	2	2	2	2	2	3	2
CO3	2	2	2	3	3	3	2	2	3	3	3
CO4	-	-	-	1	-	-	-	-	1	-	-
CO5	1	1	-	1	3	3	-	-	3	1	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR510	Title of the Course	Clinical Speciality – I Medical Surgical Nursing Lab	L	T	P	C
Year	First	Semester	Non Semester	-	-	4	4
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed for students in clinical specialties such as neuro science nursing, cardiovascular & thoracic nursing, critical care nursing, oncology nursing, orthopedic and rehabilitation nursing, nephro & urology nursing, gastroenterology nursing, and geriatric nursing. It aims to enhance students' expertise and knowledge in Medical-Surgical Nursing, preparing them to assess and manage patients with a variety of complex conditions. Students will develop the ability to function as specialized nurses, educators, managers, and researchers, with a focus on holistic patient care, clinical skills, and evidence-based practice. Through this course, students will gain hands-on experience in health assessment, patient management, and interdisciplinary collaboration in diverse clinical settings.						

Course Outcomes	
CO1	The course outcomes include skills in health assessment, history taking, nutritional assessment, clinical presentations, health education, case studies, project work, nursing process application, in-depth case presentations, and acquisition of special clinical skills in various areas.
CO2	Students will be able to assess and manage patients with disorders of the digestive, gastrointestinal, nervous, and respiratory systems, perform various procedures like gastric intubation, feeding, and gastrostomy, conduct gastric analysis etc and participate in field visits in oncology, neurosurgery, and neurology.
CO3	Students will be able to manage patients with disorders of the cardiovascular, genitourinary, and endocrine systems, including assessment, diagnostic procedures, and treatments such as ECG, stress tests, dialysis, and insulin management. They will also gain experience in field visits to cardiology and dialysis units for practical exposure.
CO4	Students will be able to manage patients with musculoskeletal, integumentary, and reproductive system disorders, perform assessments, provide care for amputation, skin traction, burns, and post-mastectomy exercises, and participate in field visits to burns units, emergency units, and rehabilitation centers.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Health Assessment of patients, Care in hospital settings	Health Assessment , History taking , Nutritional Assessment , Clinical presentations, Health Education related to disease conditions, Case studies, Project work, Nursing process application - 8 one in each area, In depth Case presentation : (2) in any area., Special skills to be acquired in clinical practice - (8) 1 in each area,	650 Hrs.	CO1
II	Management of patients with disorders of digestive & gastro intestinal system, nervous system , respiratory system	Assessment, gastric intubation & feeding, Gastrastomy feeding, Gastric analysis, Esophageal balloon, Endoscopy, Colostomy Care. Neurologic Function : Neurological assessment, Glasgow Coma scale, EEG, EMG C. T. Scan, MRI, Lumbar puncture, Care of unconscious client, Skull traction Respiratory function: Respiratory assessment, care of clients with ICD-Postural drainage, chest physiotherapy, oxygen administration, pulmonary function test, bronchoscopy, nebulization, thoracentesis, mechanical ventilation. Field visits : Oncology, Neuro surgery and Neurology		CO2
III	Management of patients with disorders of cardio vascular system, genito urinary system, endocrine system	Cardio vascular circulatory: Cardiac assessment, ECG interpretation, Stress tests, Angiography, Cardiac Catheterization, Blood transfusion, Pace maker, Defibrillation, CPR, Bone marrow biopsy, cardiac diet, cardiac monitoring. Urinary And Renal Function : Assessment, Haemodialysis, Peritoneal dialysis, TURP, Renal diet, CAPD, Bladder irrigation, ECLT (Extra corporeal litho tripsy) Metabolic and endocrine function: Assessment, Glycosylated hemoglobin, diabetic foot, OGTT, Insulin pump, thyroid function test, test. Field visits : Cardiology, Dialysis.		CO3
IV	Management of patients with disorders of musculo-skeletal system, integumentary system, reproductive system	Musculo Skeletal Function: Muscular Skeletal assessment, Hormone replacement therapy, Arthroscopy, Amputation, Application and care following POP, Skin traction, Application and care following skin traction, Internal fixation. Burns: Integumentary System- Assessment, Burns dressing, Fluid - electrolyte management following burns. Sexual And Reproductive Function: Physical Assessment, Infertility clinic, Breast self examination, Post mastectomy exercise. Field visits : Burns Unit, Emergency unit, Rehabilitation center		CO4

Reference Books:
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.
Jacob Annamma. <i>Clinical Nursing Procedures: The Art Of Nursing Practice</i> . Jaypee Brothers Medical Publishers.
Vijay Kumar Gauttam. <i>Procedures Manual Book Of Medical Surgical Nursing</i> . Kumar Publishing House.
Shincy George. <i>A Comprehensive Procedure Manual of Medical Surgical Nursing</i> . Emmess Medical Publishers.



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR511	Title of the Course	Clinical Speciality – I Obstetric and Gynaecological Nursing Lab	L		T	
Year	First	Semester	Non Semester	-	-	4	4
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course aims to equip students with specialized skills and knowledge in Obstetric and Gynaecological Nursing, with a focus on comprehensive care throughout pregnancy, labor, and postpartum. It will enable students to understand genetic counseling and hereditary patterns, and develop practical skills in communication, ethical considerations, and healthcare impacts. Students will gain hands-on experience in managing labor, performing assessments, and executing nursing procedures for both normal and high-risk pregnancies. Additionally, they will learn about baby-friendly practices, breastfeeding strategies, family welfare counseling, and contraceptive methods, preparing them to function as independent midwifery practitioners, educators, and researchers in the field.						

Course Outcomes	
CO1	Students will be able to observe genetic counseling sessions, analyze case studies, identify hereditary patterns, and assess the role of genetic counseling in healthcare during the field visit. They will develop practical skills in communication, ethical considerations, and understanding the impact of genetic disorders on individuals and families.
CO2	Students will be able to perform various assessments and procedures during pregnancy, assist or witness diagnostic and therapeutic procedures, and plan comprehensive care using nursing theory and processes for antenatal, natal, postnatal, and gynecology cases, while conducting case studies and utilizing tools for fetal monitoring and high-risk pregnancy identification. Additionally, they will gain skills in diagnostic techniques like ultrasound, amniocentesis, and biochemical tests.
CO3	Students will be able to manage normal labor and provide nursing care, assess labor using a partograph, perform per vaginal examinations, conduct normal deliveries, perform episiotomies and suturing, set up delivery areas, examine placentas, repair tears, conduct breast examinations, and perform neonatal resuscitation.
CO4	Students will be able to identify baby-friendly hospital practices, analyze breastfeeding support strategies, evaluate policies promoting mother-infant bonding, and apply knowledge to advocate for breastfeeding-friendly environments. Field Visit: Students will visit a baby-friendly hospital to initiate hands-on learning and practical application of breastfeeding support practices.
CO5	Students will be able to assist in medical termination of pregnancy, motivate couples for planned parenthood, insert intrauterine devices (Copper T), and organize and participate in various clinicals such as antenatal, postnatal, immunization, and home visits. They will also participate in family welfare counseling, assist in tubectomy and vasectomy, identify high-risk women for referral, and provide health education to women and families, including visits to national health family welfare services.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Field Visit	Visit to genetic counseling center	650 Hrs.	CO1
II	Pregnancy	Procedures performed- Antenatal assessment-20, Intranatal Assessment -20, Postnatal assessment-20, Nursing Clinics (5): Antenatal (1), Natal (1), Newborn (1), Gynecology (1). Assist or witness/ diagnostic therapeutic procedure: Dilatation & curettage, Dilatation & Evacuation, Vacuum extraction, Medical induction, Surgical Induction, IVF, Artificial Insemination, Artificial reproduction, Tubal patency test, Chordo centesis, Chronic villi sampling, Amniocentesis, Ultra sonography, Gynaecological examination, Tubectomy laparoscopy, Aminoscopy, Radiological examination, Biochemical test. Procedure to be Performed: Identification of high risk pregnancy, Intra uterine fetal wellbeing: Kick chart, Fetal movement chart, Doppler assessment, NST, C.S.T, Fetoscopy. Plan comprehensive care and implement utilizing nursing theory and nursing process: Antenatal (5), Natal (5), Postnatal/Gynecology /FP(5), Newborn(2). Case studies: Antenatal (1), Natal (1), Postnatal (1), Newborn (1), Gynecology(1)		CO2
III	Normal Labour and nursing management	Assessment during labour : use of partograph – 20, Per vaginal examination-20, Conduct of normal delivery-20, Episiotomy and suturing-10, Setting up of delivery areas, Placental examination, Repairs of tears, Breast examination, Neonatal resuscitation.		CO3
IV	Field Visit	Visit to baby friendly hospital initiate		CO4
V	Family welfare services, Abortion	Procedures assisted- Medical termination of pregnancy. Motivation of couples for planned parenthood, Insertion of intra uterine devices (copper T). Extended & Expanded role/Organize & participate different Clinicals: a) Antenatal, b) Postnatal, c) Immunization, Home visit for follow up services, Participate in F.W counseling: Assist in tubectomy, vasectomy. Identification of high risk women & referral. Health education: to women and their families (5). Visit to National health family welfare.		CO5

Reference Books:
Shweta Naik . <i>Procedure Manual Series Obstetric and Gynecological Nursing</i> . CBS Publishers.
Dharitri Swain , <i>Obstetrics Nursing Procedure Manual</i> . Jaypee Brothers Medical Publishers (P) Ltd.
Kiran Agarwal . <i>Instruments and Procedures in Obstetrics and Gynecology</i> . Jaypee Brothers Medical Publishers (P) Ltd.
Richa Saxena. <i>A Practical Guide to Obstetrics & Gynecology</i> . Jaypee Brothers Medical Publishers (P) Ltd.
Annamma Jacob. <i>Manual for Midwifery and Gynecological Nursing</i> . Jaypee Brothers Medical Publishers (P) Ltd.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	1	-	1	1	-	1	1	2	1	1
CO2	2	3	2	1	2	2	2	1	2	2	1
CO3	2	3	3	2	2	1	2	1	3	2	2
CO4	1	2	-	2	1	-	2	1	2	2	1
CO5	2	3	2	1	3	2	2	1	3	3	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR512	Title of the Course	Clinical Speciality – I Child Health (Paediatric) Nursing Lab	L	T	P	C
Year	First	Semester	Non Semester	-	-	4	4
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to provide students with a comprehensive understanding of Pediatric Nursing, equipping them with the skills to assess and manage pediatric clients in both medical and surgical settings, while applying the nursing process through case studies and clinical practice. Students will gain expertise in child growth and development concepts, recognizing key milestones across different stages and utilizing this knowledge in child care. The course also focuses on behavioral and preventive pediatric nursing, with opportunities for students to engage in child guidance clinics, nutritional assessments, and health education initiatives. Additionally, students will develop specialized neonatal nursing skills, particularly in managing high-risk newborns, with practical experience through NICU exposure and field visits.						

Course Outcomes	
CO1	Students will be able to assess pediatric clients and apply the nursing process for medical and surgical cases, including case studies. They will acquire clinical skills in various procedures.
CO2	Students will be able to explain growth and development concepts, describe their stages, and identify influencing factors. They will apply theoretical knowledge to child care and appraise the growth and developmental milestones of antenatal, newborn, postnatal, infant, toddler, preschooler, and school-age groups.
CO3	Students will be able to apply behavioral and preventive pediatric nursing concepts, manage casework in child guidance clinics, and prepare observation reports. They will conduct family care studies, perform nutritional assessments and education, provide health education, participate in school health programs, immunization clinics, and under-5 clinics.
CO4	Students will be able to explain neonatal nursing concepts, care for normal newborns, and manage high-risk newborns effectively. They will also conduct case studies, identify high-risk newborns for referral, and gain practical exposure through NICU experiences and field visits.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Assessment of pediatric clients, Hospitalized child	Nursing Process Application (6): Medical-3, Surgical-3 , Case Study-4: Medical-2, Surgical-2. Special skills to be acquired in clinical practice : IM Injection, IV injection, Peripheral cannula insertion, Oral Medication, Steam inhalation, Oxygen administration, Nebulization, Paladai feeding, Nasogastric Tube feeding / Gastrostomy feeding, Colonic irrigation, Assisting in resuscitation, Oxygen inhalation, Incentive spirometry, Chest physiotherapy. Assisting in Lumbar puncture, ICD, BMA (Bone marrow Aspiration), Kidney biopsy.	650 Hrs.	CO1
II	Growth and Development of children	Growth & Development - (3), Theory application-(2), Appraisal of Different Age groups : Antenatal, New Born, Post natal, Infant, Toddler, Preschooler, Schooler.		CO2
III	Behavioral Pediatrics and Pediatric Nursing, Preventive Pediatrics and Pediatric Nursing	Pediatric Concepts-(2), Child Guidance Clinic: Case Work -1, Observation Report-1. Community: Family Care Study (2), Nutritional Assessment and Education (4): Hospital-2, Community. Health Education (5). School Health (1), Participation in Immunization clinic, Under 5 clinic.		CO3
IV	Neonatal Nursing	Neonatal Nursing: Concepts - (2), Normal New Born-3, High risk New Born-2, Case Study-1: NICU-1. Identification of High Risk Newborn & referral, Field visits.		CO4

Reference Books:

Datta P. *Manual of Pediatric Nursing Procedures*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Kalia R. *Pediatric Nursing Procedures*. New Delhi: Jaypee Brother Medical Publishers.

Kumar Y. *Comprehensive Pediatric Nursing Procedures*. Chennai: Notion Press.

Padmaja A. *Pediatric Nursing Procedure Manual*. New Delhi: Jaypee Brothers Medical Publishers.

Kavith K. *A Comprehensive Manual of Pediatric Nursing Procedures*. New Delhi: Jaypee Brother Medical Publishers.

Barmese S, Kurien R, Mathew M. *Procedure & Practices in Child Health Nursing*. Bangalore: Medico Refresher Publications.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	1	2	1	2	1	3	2	2
CO2	2	1	1	-	1	-	1	-	2	2	1
CO3	2	2	3	1	2	1	3	1	3	2	2
CO4	3	1	2	2	2	1	2	1	3	1	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR513	Title of the Course	Clinical Speciality – I Mental Health (Psychiatric) Nursing Lab	L	T	P	C
Year	First	Semester	Non Semester	-	-	4	4
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to provide students with a comprehensive understanding of psychiatric nursing, equipping them with the knowledge and skills to function as psychiatric nurse specialists. Students will analyze trends, issues, and theories in psychiatry, applying psychobiology and human behavior principles to nursing practice. The course will enhance students' therapeutic communication skills, promote self-esteem, and emphasize the use of various therapies like individual and group therapy, psychopharmacology, and alternative medicine. It also prepares students to function as educators, managers, and researchers within the multidisciplinary psychiatric nursing field.						

Course Outcomes	
CO1	Students will be able to apply theories of personality development to nursing practice, develop care plans with models, and utilize psychometric and personality assessments effectively. They will also demonstrate competence in theory application and assessment techniques.
CO2	Students will be able to demonstrate effective therapeutic communication and build positive interpersonal relationships. They will apply counselling techniques to support individuals in overcoming challenges and enhancing well-being.
CO3	Students will be able to perform history taking and mental health assessment, process recording, and present case studies and case presentations in psychiatric/mental health nursing. They will develop skills to assess, document, and communicate mental health conditions effectively.
CO4	Students will be able to attend and apply various psycho-social and physical therapies. They will gain skills to use these therapies effectively for diverse therapeutic needs.
CO5	Students will be able to assist in Electroconvulsive Therapy (ECT) and EEG procedures, gain knowledge in psychopharmacology, contribute to project work like creating a drug book or drug bank, and participate in field visits.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Theories of Personality Development and relevance to nursing practice	Care plan with model - Theory application-5, Psychometric assessment-5, Personality assessment-5	650 Hrs.	CO1
II	Therapeutic communication and interpersonal relationship	Counselling		CO2
III	The nursing process in psychiatric/ mental health nursing	History taking & Mental health assessment-10, Process recording-10, Care study(5), Case presentation (5)		CO3
IV	Psycho social and physical therapies	Attending various therapies: a. Psycho therapy, b. Individual therapy, c. Group therapy, d. Family therapy, e. Behavioral therapy, f. Rehabilitation therapy, g. Milieu Therapy, h. Play therapy, i. Occupational therapy, Psycho socio drama		CO4
V	Electroconvulsive Therapy , Psychopharmacology	Assisting ECT(5), Assisting EEG (5), Project work-can be drug book/drug bank, Field visits		CO5

Reference Books:

R Sreevani. *A Guide To Mental Health & Psychiatric Nursing*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Prakash P. *Textbook of Mental Health and Psychiatric Nursing*. New Delhi: CBS Publishers.

Sandeep Arya, Bharat Pareek. *Textbook of Mental Health & Psychiatric Nursing*. Jaipur: Vision Health Sciences Publisher.

Bimla Kapoor. *Textbook of Psychiatric Nursing*. Ludhiana: Kumar Publishing House.

KP Neeraja. *Essential of Mental Health and Psychiatric Nursing*. New Delhi: Jaypee Brothers Medical Publishers.

Sheila L. Videbevk. *Psychiatric Mental Health Nursing*. Philadelphia: Wolters Kluwer Publishers.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	-	2	1	-	2	3	-	1
CO2	-	3	1	2	-	-	1	2	2	3	-
CO3	3	2	3	-	1	1	1	1	3	-	1
CO4	2	1	2	2	1	1	-	1	2	2	1
CO5	2	2	1	1	3	2	-	-	2	1	3



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR514	Title of the Course	Clinical Speciality – I Community Health Nursing Lab	L	T	P	C
Year	First	Semester	Non Semester	-	-	4	4
Pre-Requisite	B.Sc. Nursing or P.B.B.Sc. Nursing, 1 Year Clinical or Teaching Experience, 55 % aggregate marks, Entrance Examination	Co-requisite	80 % Theory & 100% Clinical Attendance, Research Activities, Teaching Practice, Requirements Submission				
Course Objectives	The course aims to equip students with essential skills and knowledge in Community Health Nursing, fostering expertise in health statistics estimation, community health surveys, and organizing health-related events. Students will learn to plan and implement comprehensive care using nursing theory, and gain hands-on experience with clinical tasks such as specimen collection, nutritional surveys, and counseling. The course also focuses on enhancing maternal and neonatal care skills, disaster nursing management, and health education through innovative methods like role plays and exhibitions. Additionally, students will be trained to organize in-service education for healthcare workers, maintain crucial records, and contribute to the development of future nursing professionals through specialty classes.						

Course Outcomes	
CO1	Students will be able to estimate vital health statistics. They will also be able to conduct community health surveys, organize health and family welfare fairs, identify community leaders, purify domestic water, and participate in clinics, camps, and field visits to various health and community centers.
CO2	Students will be able to plan and implement comprehensive care using nursing theory and the nursing process for individuals, families, special groups, and counseling, including field visits to various institutions. They will demonstrate procedures using a community bag, collect sputum and stool specimens, prepare blood smears, conduct nutritional surveys, provide dietary planning for different age groups, and perform various clinical tasks.
CO3	Students will be able to conduct antenatal examinations, vaginal examinations, and postnatal visits, perform/witness episiotomy and suturing, prepare PAP smears, insert and remove IUDs, and assist in breast self-examination. These skills will enhance their proficiency in maternal and neonatal care.
CO4	Students will be able to manage disaster nursing, organize health education campaigns, exhibitions, and folk media, and prepare IEC materials while conducting disaster preparedness drills. They will also be able to organize and conduct health education using exhibition, role play, street plays, A.V. aids, and provide counseling to individuals and families.
CO5	Students will be able to organize in-service education for ANM's/LHV/PHN/HW, maintain records, reports, and registers at SC/PHC/CHC, and submit activity reports and daily clinical diaries. Additionally, students will conduct specialty classes for the UG program.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Estimation of Vital health statistics – Exercise, Health Program	Identification of community leaders and resource persons(community mapping), Conduct community health survey, Organize at least one health and family welfare mela/fair.(all stalls of National Health and Family Welfare activities should be included). Purification of water at domestic level (5). Estimate: Birth Rate, Crude Death Rate, Fertility Rate, Couple Protection Rate, Population Projection, Infant Projection, Disease specific Death Rate, Child Mortality Rate. Organize & participate in different Clinics, Camps, National Health Programme. Field Visits: Anganwadi Center, Health Information Bureau, Family Planning Association of India, Epidemic Disease Hospital, Nutrition and Food Preservation Centre, Water Purification Centre, Sewage Disposal Plant, Pollution Control board	650 Hrs.	CO1
II	Family health nursing process	Plan comprehensive care and implement utilizing nursing theory and nursing process: Individual (2), Family(2), Special Groups(2), Counseling, Field Visits: Physically Challenged Institute, Home for aged, Community based Rehabilitation Centre. Demonstrate different procedure by using community Bag: TPR, Wound Dressing, Anthropometric measurement, HB estimation, Urine analysis, Injection etc, Collect Sputum specimen (5), Collect Stool Specimen (5), Preparation of Blood Smear (5). Conduct Nutritional Survey & Nutritional Demonstration, Plan diet for different age groups.		CO2
III	Maternal and neonatal care	Conduct Antenatal Examinations-(5), Conduct Vaginal Examination-(5) Conduct Postnatal Visits-(5), Perform/witness Episiotomy & Suturing- (5), Prepare PAP smear-(5), Insert & remove IUD-(5), Assist in Breast Self Examination-(5).		CO3
IV	Disaster Nursing, Health education – campaign, exhibition, folk media, preparation of IEC materials	Drill for disaster preparedness. Organize & Conduct Health Education using following media (5): Exhibition, Role Play, Street Plays, A.V. Aids. Counseling: Individuals (2), Family (2)		CO4
V	Health organization	Organise atleast one in-service education to ANM's/LHV/PHN/HW. Filling up of Records, reports and registers maintained at SC/PHC/CHC. Submission of Report/File of the activities and daily clinical diary. Conduct Specialty classes for UG Programme-10		CO5

Reference Books:

Baljit Kaur . *Community Health Nursing Procedures*. Jaypee Brothers Medical Publishers.



INTEGRAL UNIVERSITY, LUCKNOW
FACULTY OF NURSING
MASTER OF SCIENCE IN NURSING
SYLLABI

SECOND YEAR



Integral University, Lucknow
Integral Institute of Nursing Sciences and Research
Study and Evaluation Scheme of Postgraduate Program

Program: M.Sc. Nursing – Second Year

w.e.f. Session: 2024-2025

Program: MSc Nursing – Second Year													
S.No.	Course Code	Course Title	Type of Paper	Period per Hr./Week/Year			Evaluation Scheme				Sub. Total	Credit	Total Credit
				L	T	P	CT	TA	Total	ESE			
THEORY													
1.	NR601	Nursing Management	Core	4	0	1	15	10	25	75	100	4:0:1	5
2.	NR602	Medical Surgical Nursing – Cardio Vascular and Thoracic Nursing	Core/DSE	4	0	0	15	10	25	75	100	4:0:0	4
3.	NR603	Medical Surgical Nursing – Critical Care Nursing	Core/DSE										
4.	NR604	Medical Surgical Nursing – Oncology Nursing	Core/DSE										
5.	NR605	Medical Surgical Nursing -Neuroscience Nursing	Core/DSE										
6.	NR606	Medical Surgical Nursing – Nephro – Urology Nursing	Core/DSE										
7.	NR607	Medical Surgical Nursing – Orthopedic Nursing	Core/DSE										
8.	NR608	Medical Surgical Nursing – Gastro Enterology Nursing	Core/DSE										
9.	NR609	Obstetrics & Gynaecology Nursing-II	Core/DSE										
10.	NR610	Pediatric (Child Health) Nursing-II	Core/DSE										
11.	NR611	Mental (Psychiatric) Health Nursing-II	Core/DSE										
12.	NR612	Community Health Nursing-II	Core/DSE										
PRACTICAL													
1.	NR613	Medical Surgical Nursing – Cardio Vascular and Thoracic Nursing Lab	Core/DSE	0	0	6	60	40	100	100	200	0:0:6	6
2.	NR614	Medical Surgical Nursing – Critical Care Nursing Lab	Core/DSE										
3.	NR615	Medical Surgical Nursing – Oncology Nursing Lab	Core/DSE										
4.	NR616	Medical Surgical Nursing -Neuroscience Nursing Lab	Core/DSE										
5.	NR617	Medical Surgical Nursing – Nephro – Urology Nursing Lab	Core/DSE										
6.	NR618	Medical Surgical Nursing – Orthopedic Nursing Lab	Core/DSE										
7.	NR619	Medical Surgical Nursing – Gastro Enterology Nursing Lab	Core/DSE										
8.	NR620	Obstetrics & Gynaecology Nursing-II Lab	Core/DSE										
9.	NR621	Pediatric (Child Health) Nursing-II Lab	Core/DSE										
10.	NR622	Mental (Psychiatric) Health Nursing-II Lab	Core/DSE										
11.	NR623	Community Health Nursing-II Lab	Core/DSE										
12.	NR624	Dissertation/Viva	Core	0	0	7	60	40	100	100	200	0:0:7	7
13.	NR625	Clinical Posting	Core	0	0	0	0	0	0	0	0	0	0
TOTAL				8	0	14	150	100	250	350	600	22	22



Integral University, Lucknow
Integral Institute of Nursing Sciences and Research
Study and Evaluation Scheme of Postgraduate Program

Program: M.Sc. Nursing – Second Year

w.e.f. Session: 2024-2025

S. No.	Course Code	Course Title	Type of Paper	Attributes							UN SDGs
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
1.	NR601	Nursing Management	Core	✓	✓	✓	✓			✓	3,4,5,8,12
2.	NR602	MSN- Cardio Vascular & Thoracic Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
3.	NR603	MSN – Critical Care Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
4.	NR604	MSN- Oncology Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
5.	NR605	MSN- Neuroscience Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
6.	NR606	MSN- Nephro – Urology Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
7.	NR607	MSN- Orthopedic Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
8.	NR608	MSN- Gastro Enterology Nursing	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
9.	NR609	Obstetrics & Gynaecology Nursing-II	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
10.	NR610	Pediatric (Child Health) Nursing-II	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
11.	NR611	Mental (Psychiatric) Health Nursing-II	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
12.	NR612	Community Health Nursing-II	Core/DSE	✓		✓	✓	✓	✓	✓	3,4,5,8,10,13
PRACTICAL											
1.	NR613	MSN- Cardio Vascular and Thoracic Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
2.	NR614	MSN- Critical Care Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
3.	NR615	MSN- Oncology Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
4.	NR616	MSN- Neuroscience Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
5.	NR617	MSN- Nephro – Urology Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
6.	NR618	MSN- Orthopedic Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
7.	NR619	MSN- Gastro Enterology Nursing Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
8.	NR620	Obstetrics & Gynaecology Nursing-II Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
9.	NR621	Pediatric (Child Health) Nursing-II Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
10.	NR622	Mental (Psychiatric) Health Nursing-II Lab	Core/DSE	✓		✓	✓		✓	✓	3,4,5,8,10
11.	NR623	Community Health Nursing-II Lab	Core/DSE	✓		✓	✓	✓	✓	✓	3,4,5,8,10,13
12.	NR624	Dissertation/Viva	Core	✓		✓	✓		✓	✓	3,4,5,8,10
13.	NR625	Clinical Posting	Core	✓		✓	✓		✓	✓	3,4,5,8,10

L: Lecture; **T:** Tutorials; **P:** Practical; **CT:** Class Test; **TA:** Teacher Assessment; **ESE:** End Semester Examination; **Sessional Total:** Class Test + Teacher Assessment; **Subject Total:** Sessional Total + End Semester Examination (ESE); **DSE:** Discipline Specific Elective; **MSN:** Medical Surgical Nursing ; **In theory** one hour equal to one credit per week; **In clinical** four hours equal to one credit per week.



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR601	Title of the Course	Nursing Management	L	T	P	C
Year	Second	Semester	Non Semester	4	-	1	5
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.						

Course Outcomes	
CO1	The Students able to describe the philosophy and objectives of the health care institutions at various levels. Identify trends and issues in nursing. Discuss the public administration, health care administration vis a vis nursing administration.
CO2	The Students able to describe the principles of administration applied to nursing. Explain the organization of health and nursing services at the various levels/institutions. Collaborate and co-ordinate with various agencies by using multi- sectoral approach. Discuss the planning, supervision and management of nursing workforce for various health care settings.
CO3	Enables students to understand the key aspects of staffing, including estimation of nursing staff requirements, research studies, and personnel policies. Students will be able to apply concepts of recruitment, retention, and staff development programs while managing duties and responsibilities across various nursing categories. Additionally, they will learn to direct, motivate, and communicate effectively in nursing services and education, handle delegation errors, resolve conflicts, and engage in collective bargaining, with a focus on occupational health and safety in nursing settings.
CO4	The Students able to discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care. Describe the process of quality assurance in nursing services and Fiscal planning.
CO5	The Students able to demonstrate leadership in nursing at various levels. Identify and analyse legal and ethical issues in nursing administration, and apply their knowledge to enhance nursing practices through technology and management.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Management Nursing management Material management	Philosophy, purpose, elements, principles and scope of administration, Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community, Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans. Functions of administration, Planning and control, Co-ordination and delegation, Decision making-decentralization basic goals of decentralization, Concept of management Concept, types, principles and techniques, Vision and Mission Statements Philosophy, aims and objective, Current trends and issues in Nursing Administration, Theories and models, Application to nursing service and education Concepts, principles and procedures, Planning and procurement procedures: Specifications, ABC analysis, VED (very important and essential daily use) analysis, Planning equipments and supplies for nursing care: unit and hospital, Inventory control, Condemnation, Application to nursing service and education	30	CO1
II	Planning Organization	Planning process: Concept, Principles, Institutional policies, Mission, philosophy, objectives, Strategic planning, Operational plans, Management plans, Programme evaluation and review technique (PERT), Gantt chart, Management by objectives (MBO), Planning new venture, Planning for change, Innovations in nursing, Application to nursing service and education Concept, principles, objectives, Types and theories, Minimum requirements for organization, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, Organizing nursing services and patient care: Methods of patient assignment-Advantages and disadvantages, primary nursing care, Planning and Organizing: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc), Disaster management: plan, resources, drill, etc Application to nursing service and education	30	CO2
III	Human Resource for health Directing	Staffing Philosophy, Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC), Estimation of nursing staff requirement-activity analysis, Various research studies, Recruitment: credentialing, selection, placement, promotion. Retention, Personnel policies, Termination, Staff development programme, Duties and responsibilities of various category of nursing personnel Applications to nursing service and education. Roles and function, Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories Communication: process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations, Delegation; common delegation errors, Managing conflict: process, management, negotiation, consensus, Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager, Occupational health and safety, Application to nursing service and education	30	CO3
IV	Controlling	Quality assurance-Continuous Quality Improvement, Standards Models Nursing audit Performance appraisal :Tools, confidential reports, formats, Management, interviews Supervision and management: concepts and principles Discipline: service rules, self-discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings-enquiry	30	CO4

	Fiscal planning	etc. Self-evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education. Steps, Plan and non-plan, zero budgeting, midterm appraisal, capital and revenue, Budget estimate, revised estimate, performance budget, Audit, Cost effectiveness, Cost accounting, Critical pathways, Health care reforms, Health economics, Health insurance, Budgeting for various units and levels, Application to nursing service and education		
V	Nursing informatics Leadership Legal and ethical issues Laws and ethics	Trends, General purpose, Use of computers in hospital and community, Patient record system, Nursing records and reports, Management information and evaluation system(MIES), E-nursing, Telemedicine, tele-nursing, Electronic medical records Concepts, Types, Theories Styles, Manager behavior, Leader behavior, Effective leader: Characteristics, skills, Group dynamics, Power and politics, Lobbying, Critical thinking and decision making, Stress management, Applications to nursing service and education Ethical committee, Code of ethics and professional conduct, Legal system: Types of law, tort law, and liabilities, Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character, Patient care issues, management issues, employment issues, Medico legal issues, Nursing regulatory mechanisms: licensure, renewal, accreditation, Patients' rights, Consumer protection act (CPA) Rights of special groups: children, women, HIV, handicap ,ageing, Professional responsibility and accountability, Infection control, Standard safety measures	30	CO5
Practical:-				
Prepare prototype personal files for staff nurses, faculty and cumulative records , Preparation of budget estimate, Revised estimate and performance budget, Plan and conduct staff development programme, Preparation of Organisation Chart, Developing nursing standards/protocols for various units, Design a layout plan for speciality units /hospital, community and educational institutions, Preparation of job description of various categories of nursing personnel, Prepare a list of equipments and supplies for speciality units, Assess and prepare staffing requirement for hospitals, community and educational institutions, Plan of action for recruitment process, Prepare a vision and mission statement for hospital, community and educational institutions, Prepare a plan of action for performance appraisal, Identify the problems of the speciality units and develop plan of action by using problem solving approach , Plan a duty roster for speciality units/hospital, community and educational institutions, Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentations etc			150	CO1,CO2, CO3,CO4, CO5
Reference Books:				
Deepak K, Sarath Chandran C. <i>A Comprehensive Text Book On Nursing Management</i> . Emmess Medical Publishers.				
Clement I. <i>Management of Nursing Services and Education</i> . 3rd ed. Elsevier India.				
Jogindra Vati. <i>Principle and Practice of Nursing Management and Administration</i> . Jaypee Brothers Medical Publishers.				
Beena MR. <i>Textbook of Nursing Management & Services</i> . CBS Publishers.				
Basavanthappa BT. <i>Management Of Nursing Services & Education</i> . Jaypee Brothers Medical Publishers.				
Shabnam Masih Dr. <i>Essentials Of Nursing Management In Service And Education</i> . Lotus Publishers.				
Rohini T, Jisa George T. <i>Textbook of Management of Nursing Services and Education</i> . Vision Health Sciences Publishers.				
Neelam Kumari. <i>Textbook of Management of Nursing Services and Education</i> . S Vikas and Company (PV).				
Shashi Bala Maj. <i>Gen. Nursing Administration Interpretation and Application</i> . Lotus Publishers.				
Pandit SB. <i>Nursing Administration and Management</i> . Paras Medical Publisher.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	2	-	2	1	-	2	1	2	1	-
CO2	2	3	-	2	1	2	2	1	2	2	-
CO3	3	3	2	3	1	2	2	1	3	2	2
CO4	2	2	-	3	1	2	2	1	3	2	-
CO5	2	3	2	3	3	2	2	1	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR602	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Cardio Vascular and Thoracic Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.						

Course Outcomes	
CO1	The Students able to appreciate trends and issues related to cardio vascular and thoracic Nursing. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions. Perform physical, psychosocial & spiritual assessment. Assist in various diagnostic, therapeutic and surgical procedures.
CO2	The Students able to apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
CO3	Students able to demonstrate the ability to assess, diagnose, and manage various pulmonary disorders such as bronchitis, asthma, pneumonia, tuberculosis, pulmonary embolism, and respiratory failure. Students will also gain competence in nursing management and treatment modalities for conditions like interstitial lung disease, cystic fibrosis, and cor pulmonale. Additionally, they will develop advanced skills in managing cardiovascular and thoracic conditions, including Advanced Cardiac Life Support (ACLS).
CO4	The Students able to describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
CO5	Enables students to appreciate teamwork and coordinate patient care activities, practice infection control measures, and identify emergencies and complications, taking appropriate actions. Students will develop skills in quality assurance, standards, protocols, policies, nursing audit, ICCU/ICTU design, staffing, and managing burnout syndrome. They will learn the nurse's role in ICCU/ICTU management, mobile coronary care units, and planning in-service educational programs.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Epidemiology and Assessment and Diagnostic Measures	<p>Introduction: Historical development, trends and issues in the field of cardiology. Cardio vascular and thoracic conditions – major health problem. Concepts, principles and nursing perspectives, Ethical and legal issues, Evidence based nursing and its application in cardio vascular and thoracic nursing g(to be incorporated in all the units)</p> <p>Epidemiology: Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc, Health promotion, disease prevention, Life style modification. National health programs related to cardio vascular and thoracic conditions, Alternate system of medicine. Complementary therapies.</p> <p>Assessment and Diagnostic Measures: History taking, Physical assessment, Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV. Diagnostic tests. Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination, ECG changes in: intraventricular conduction abnormalities Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques. Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging. Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care. Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period. Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data. Pulmonary function test: Bronchoscopy and graphies, Interpretation of diagnostic measures, Nurse's role in diagnostic tests. Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. Interpretation and role of nurse</p>	30	CO1
II	Review of anatomy and physiology of cardio vascular and respiratory system, Cardiac disorders and nursing	<p>Review of anatomy and physiology of cardio vascular and respiratory system, Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. Coronary circulation, Hemodynamics and electro physiology of heart. Bio-chemistry of blood in relation to cardio pulmonary function.</p> <p>Cardiac disorders and nursing management: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: Hypertension, Coronary Artery Disease, Angina of various types, Cardiomegaly,</p>	30	CO2

	management	Myocardial Infarction, Congestive cardiac failure, Heart Failure, Pulmonary Edema, Shock. Rheumatic heart disease and other Valvular Diseases, Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. Cardiomyopathy, dilated, restrictive, hypertrophic. Arrhythmias, heart block		
III	Altered pulmonary conditions, Vascular disorders and nursing management	<p>Altered pulmonary conditions: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: Bronchitis, Bronchial asthma, Bronchiectasis, Pneumonias, Lung abscess, lung tumour, Pulmonary tuberculosis, fibrosis, pneumoconiosis etc, Pleuritis, effusion, Pneumo, haemo and pyothorax Interstitial Lung Disease, Cystic fibrosis, Acute and Chronic obstructive pulmonary disease (conditions leading to), Cor pulmonale, Acute respiratory failure, Adult respiratory distress syndrome, Pulmonary embolism, Pulmonary Hypertension</p> <p>Vascular disorders and nursing management Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: Disorders of arteries, Disorders of the aorta, Aortic Aneurysms, Aortic dissection, Raynaud's phenomenon, Peripheral arterial disease of the lower extremities, Venous thrombosis, Varicose veins, Chronic venous insufficiency and venous leg ulcers, Pulmonary embolism.</p> <p>Vascular disorders and nursing management: Etiology, clinical manifestations, diagnosis, prognosis, related to pathophysiology, treatment modalities and nursing management of: Disorders of arteries, Disorders of the aorta, Aortic Aneurysms, Aortic dissection, Raynaud's phenomenon, Peripheral arterial disease of the lower extremities, Venous thrombosis, Varicose veins, Chronic venous insufficiency and venous leg ulcers, Pulmonary embolism</p>	30	CO3
IV	Nursing care of a patient with obstructive airway, Mechanical Ventilation, Congenital Heart Diseases, Pharmacology Review	<p>Nursing care of a patient with obstructive airway: Assessment, Use of artificial airway, Endotracheal intubation, tracheostomy and its care, Complication, minimum cuff leak, securing tubes, Oxygen delivery systems. Nasal Cannula, Oxygen mask, Venturi mask, Partial rebreathing bag, Bi-PAP and C-PAP masks, Uses, advantages, disadvantages, nursing implications of each., Mechanical Ventilation, Principles of mechanical ventilation. Types of mechanical ventilation and ventilators. Modes of ventilation, advantage, disadvantage, complications. PEEP therapy, indications, physiology, and complications. Weaning off the ventilator. Nursing assessment and interventions of ventilated patient.</p> <p>Congenital Heart Diseases, Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: Embryological development of heart. Classification – cyanotic and acyanotic heart disease. Tetralogy of Fallots. Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger's complex. Patent ductus arteriosus, AP window, Truncus Arteriosus. Transposition of great arteries. Total Anomaly of Pulmonary Venous Connection. Pulmonary stenosis, atresia. Coarctation of aorta. Ebstein's anomaly, Double outlet right ventricle, Single ventricle, Hypoplastic left, heart syndrome.</p> <p>Pharmacology: Review, Pharmacokinetics, Analgesics/Anti inflammatory agents Antibiotics, antiseptics, Drug reaction & toxicity, Drugs used in cardiac emergencies, Blood and blood component</p>	30	CO4
V	Nursing Care of patient undergoing cardio thoracic surgery, Cardiac rehabilitation Intensive Coronary Care Unit/intensive cardio thoracic unit:	<p>Nursing Care of patient undergoing cardio thoracic surgery:</p> <p>Indications, selection of patient, Preoperative assessment and preparation; counselling. Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary bypass. Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc, Immediate postoperative care : assessment, post operative problems and interventions : Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate., ventilation/perfusion, Neurological problems, renal problems, Psychological problems. Chest physiotherapy Nursing interventions- life style modification, complementary therapy/alternative systems of medicine. Intermediate and late post operative care after CABG, valve surgery.</p> <p>Cardiac rehabilitation: Process, Physical evaluation, Life style modification, Physical conditioning for cardiovascular efficiency through exercise, Counseling, Follow up care.</p> <p>Intensive Coronary Care Unit/intensive cardio thoracic unit: Quality assurance, Nurse's role in the management of I.C.C.U and ICTU. Mobile coronary care unit. Planning inservice educational programme and teaching</p>	30	CO5
Practical:-				
<p>Procedures Observed : Echo cardiogram, Ultrasound, Monitoring JVP, CVP, CT SCAN, MRI, Pet SCAN, Angiography, Cardiac catheterisation, Angioplasty, Various Surgeries, Any other.</p> <p>Procedures Assisted : Arterial blood gas analysis, Thoracentesis, Lung biopsy, Computer assisted tomography (CAT Scan), M.R.I., Pulmonary angiography, Bronchoscopy, Pulmonary function test, ET tube insertion, Tracheostomy tube insertion, Cardiac catheterisation, Angiogram, Defibrillation, Treadmill test, Echo cardiography, Doppler ultrasound, Cardiac surgery, Insertion of chest tube, CVP Monitoring, Measuring pulmonary artery pressure by Swan-Ganz Catheter, Cardiac Pacing</p> <p>Procedures Performed : Preparation of assessment tool for CT client (Cardiac, thoracic and vascular), ECG – Recording, Reading, Identification of abnormalities, Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent Through ET and Tracheostomy tube Manual resuscitation bag, Mechanical ventilation, Spirometer, Tuberculin skin test, Aerosol therapy, Nebulizer therapy, Water seal drainage, Chest physiotherapy including – Breathing Exercises Coughing Exercises Percussion & Vibration, Suctioning – Oropharyngeal, nasotracheal, Endotracheal Through tracheostomy tube, Artificial airway cuff</p>			950	CO1, CO2, CO3, CO4, CO5

maintenance, CPR , Care of client on ventilator , Identification of different – Arrhythmias Abnormal pulses, respirations , B.P. Variation Heart sounds Breath sounds , Pulse oxymetry , Introduction of intracath, Bolus I.V. Injection , Life line, Maintenance of “Heplock” , Subcutaneous of Heparin, Obtaining leg measurements to detect early swelling in thrombophlebetes , Identification of Homans signs , Buerger – Allen exercises										
Reference Books:										
P Hariprasath, Textbook of Cardiovascular & Thoracic Nursing, Jaypee Brothers Medical Publishers										
Venkatesan, Textbook of Cardiothoracic Nursing , Jaypee Brothers Medical Publishers										
Betsy A. Finkelmeier , Cardiothoracic Surgical Nursing, Publisher Lippincott Williams and Wilkins										
Elizabeth M. Perpetua DNP , Patricia Keegan, Cardiac Nursing, Publisher LWW										
Reena George, Textbook of Cardiac Nursing, Jaypee Brothers Medical Publishers										
Perpetua & Keegan, Cardiac Nursing: The Red Reference Book for Cardiac, Publisher Lippincott Williams & Wilkins USA										
Richardson K. Cardiac Nursing Textbook, Publisher ED Tech Press Exclusive										
Usha Rani Kandula, Leelavathy, Jeya Beulah D, Textbook of Cardiovascular & Thoracic Nursing, Pritam Publishers										
e-Learning Source:										

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	1	1	2	1	1	2	1	2	2	2
CO2	2	2	2	2	2	2	2	2	3	3	3
CO3	3	3	3	2	3	2	3	2	3	3	3
CO4	2	2	2	2	2	2	2	2	2	2	2
CO5	2	2	2	3	2	3	3	2	3	3	3



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR603	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Critical Care Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth knowledge in the field of Critical care Nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.						

Course Outcomes	
CO1	The student will be able to appreciate trends and issues in Critical Care Nursing, describe the epidemiology, etiology, pathophysiology, and diagnostic assessment of critically ill patients with gastrointestinal system disorders, and assess and manage pain effectively.
CO2	The student will be able to describe the drugs used in critical care and the nurse's responsibilities, perform physical, psychosocial, and spiritual assessments, practice infection control measures, and provide comprehensive care to critically ill patients. Additionally, students will appreciate teamwork and coordinate patient care activities. They will understand the renal system's causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, and management, including medical, surgical, and nursing interventions.
CO3	Enables students to understand the causes, pathophysiology, clinical types, features, diagnosis, prognosis, and management (medical, surgical, and nursing) of common neurological disorders, endocrine system disorders, and other emergency conditions. Students will be able to apply clinical knowledge in identifying and managing various conditions, using appropriate interventions across different care settings.
CO4	Students will be able to apply principles of nursing in caring for patients with cardiovascular disorders, perform cardiovascular system assessments (including heart sounds, diagnostic studies, and various monitoring techniques), and understand the causes, pathophysiology, clinical types, features, prognosis, and management (medical, surgical, and nursing) of cardiovascular emergencies. Students will demonstrate advanced skills in managing critically ill patients, including Advanced Cardiac Life Support, and handling critical care equipment. Additionally, students will be able to assess, diagnose, and manage neonatal and pediatric emergencies with medical, surgical, and nursing interventions.
CO5	Enable students to understand the classification, pathophysiology, clinical features, and management of burns, including medical, surgical, and nursing interventions. Students will be able to assess patients using history, physical examination, and diagnostic tests such as pulse oximetry, ABG studies, and chest radiography. Additionally, students will learn to address legal and ethical issues, assist patients and families in coping with emotional distress, and integrate evidence-based practices in critical care nursing.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction to Critical Care Nursing. Concept of Holistic care applied to critical care nursing practice, Gastrointestinal System	<p>Introduction to Critical Care Nursing: Historical review- Progressive patient care(PPC), Review of anatomy and physiology of vital organs, fluid and electrolyte balance Concepts of critical care nursing. Principles of critical care nursing. Scope of critical care nursing. Critical care unit set up including equipments supplies, use and care of various type of monitors & ventilators.</p> <p>Concept of Holistic care applied to critical care nursing practice: Impact of critical care environment on patients:- Risk factors, Assessment of patients, Critical care psychosis, prevention & nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, Caring for the patient's family, family teaching. The dynamics of healing in critical care unit:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupressure. Stress and burnout syndrome among health team members.</p> <p>Pain Management: Pain & Sedation in Critically ill patients. Theories of pain, Types of pain, Pain assessment, Systemic responses to pain pain management-pharmacological and non-pharmacological measures. Placebo effect.</p> <p>Gastrointestinal System: Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis.</p>	30	CO1
II	Review Renal System Review, Infection control in intensive care unit, Quality assurance.	<p>Review: Pharmacokinetics, Analgesics/Anti inflammatory agents, Antibiotics, antiseptics, Drug reaction & toxicity, Drugs used in critical care unit (inclusive of ionotropic, life saving drugs), Drugs used in various body systems, IV fluids and electrolytes, Blood and blood components, Principles of drug administration, role of nurses and care of drugs.</p> <p>Infection control in intensive care unit: Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff</p> <p>Renal System: Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma</p> <p>Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venous hemodialysis, Renal Transplant,</p> <p>Quality assurance: Standards, Protocols, Policies, Procedures. Infection control; Standard</p>	31	CO2

		safety measures. Nursing audit, Staffing, Design of ICU/CCU		
III	Nursing Care of Nervous System, Endocrine System, Management of other Emergency Conditions	<p>Nervous System: Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing. management of:-Common Neurological Disorders:-Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuillainBarre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury. Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy. Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome.</p> <p>Endocrine System: Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing. Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH).</p> <p>Management of other Emergency Conditions: Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries, Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock, Systemic inflammatory Response:The inflammatory response, Multiple organ dysfunction syndrome. Disseminated Intravascular Coagulation, Drug Overdose and Poisoning,, Acquired Immunodeficiency Syndrome (AIDS), Ophthalmic: Eye injuries, Glaucoma, retinal detachment.Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy,acute , allergic conditions, Psychiatric emergencies:, suicide, crisis intervention</p>	30	CO3
IV	Nursing Management in Cardiovascular emergencies, Neonatal Paediatric emergencies	<p>Cardiovascular emergencies: Principles of Nursing in caring for patient's with Cardiovascular disorders, Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, Coronary angiography, Nuclear medicine studies: Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Management: Medical, Surgical & Nursing. management of:- Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, Endocarditis, Heart failure Cardio pulmonary resuscitation BCLS/ ACLS. Management Modalities: Thrombolytic therapy, Pacemaker - temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation.</p> <p>Neonatal Paediatric emergencies: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Neonatal emergencies, Asphyxia Neonatorum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertrophic pyloric stenosis, imperforate anus, Pediatric emergencies, Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</p>	30	CO4
V	Management of Respiratory System, Burns, Obstetrical Emergencies	<p>Respiratory System: Acid-base balance & imbalance, Assesment: History & Physical Examination, Diagnostic Tests: Pulse Oximetry, End –Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan, Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders:-Pneumonia, Status asthmaticus, interstitial drug disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax, Management Modalities:-Airway Management, Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations, Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries.</p> <p>Burns: Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical & Nursing management of burns, Fluid and electrolyte therapy – calculation of fluids and its administration, Pain management, Wound care, Infection control, Prevention and management of burn complications, Grafts and flaps, Reconstructive surgery, Rehabilitation.</p> <p>Obstetrical Emergencies: Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Puerperal sepsis, Obstetrical shock</p>	29	CO5
Practical's:				
Procedures Observed: CT Scan, MRI, EEG, Hemodialysis, Endoscopic Retrograde cholangio Pancreaticogram(ERCP), Heart/ Neuro/GI./ Renal Surgeries Procedures Assisted: Advanced life support system, Basic cardiac life support, Arterial line/arterial pressure monitoring/blood taking, Arterial blood gas, ECG recording, Blood transfusion, IV cannulation therapy, Arterial Catheterization, Chest tube insertion, Endotracheal intubations, Ventilation, Insertion of central line/cvp line, Connecting lines for dialysis. Procedure Performed: Airway management- a. Application of oropharyngeal airway, b. Oxygen therapy, c. CPAP			950	CO1, CO2, CO3, CO4, CO5

<p>(Continuous Positive Airway pressure), d. Care of tracheostomy, e. Endotracheal extubation, Cardiopulmonary resuscitation, Basic cardiac life support, ECG, Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG, Gastric lavage, Assessment of critically ill patients, Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities, Admission & discharge of critically ill patients, Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration. Setting up dialysis machine and starting, monitoring and closing dialysis. Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions. Collection of specimen. Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.</p>		
<p>Reference Books:</p>		
<p>Das S. <i>Textbook of Critical Care Nursing</i>. Jaypee Brothers Medical Publishers.</p>		
<p>Malviya D, Nath SS. <i>Handbook of Critical Care</i>. Paras Medical Publisher.</p>		
<p>Clement I. <i>Textbook on Critical Care Nursing</i>. EMMESS Publisher.</p>		
<p>Kuruvilla J. <i>Essentials of Critical Care Nursing</i>. CBS Publishers and Distributors Pvt. Ltd.</p>		
<p>Prakash S. <i>ICU Manual for Nurses</i>. Jaypee Brothers Medical Publishers.</p>		
<p>Kandula UR, Prabhu M. <i>Comprehensive Text Book on Critical Care Nursing</i>. Bluerose Publishers Pvt. Ltd.</p>		
<p>Ghosh J. <i>Critical Care Nursing</i>. Paras Medical Publisher.</p>		
<p>Urden L, Stacy K, Lough M. <i>Critical Care Nursing</i>. Elsevier Publisher.</p>		
<p>Aitken L. <i>Critical Care Nursing</i>. Elsevier Publisher.</p>		
<p>Morton PG, Thurman P. <i>Critical Care Nursing: A Holistic Approach</i>. Wolters Kluwer Publisher.</p>		
<p>Johnson KL. <i>AACN Procedure Manual for Progressive and Critical Care</i>. Elsevier.</p>		
<p>Mehta Y. <i>Textbook of Critical Care</i>. Jaypee Brothers Medical Publishers.</p>		
<p>Vicki S. <i>Advanced Critical Care Nursing</i>. Elsevier Health Sciences Publishers.</p>		
<p><i>Saunders Nursing Survival Guide: Critical Care & Emergency Nursing</i>. Elsevier Publishers.</p>		
<p>e-Learning Source:</p>		

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR604	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Oncology Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing.						

Course Outcomes	
CO1	Enables students to explain the prevention, screening, and early detection of cancer, along with understanding its epidemiology, etiology, pathophysiology, and diagnostic assessment across various body systems. Students will describe the psychosocial effects of cancer on patients and families and explore key topics such as normal cell biology, the immune system, cancer cell biology, tumor formation, and systemic effects of tumor growth. Additionally, students will learn about levels of prevention, care, and infection control in oncology.
CO2	The student will be able to demonstrate skills in administering and assisting with various cancer treatment modalities, including surgery, chemotherapy, radiation therapy, bone marrow transplantation, immunotherapy, gene therapy, and alternative therapies. They will apply the nursing process to provide holistic care to cancer patients and describe the philosophy and dimensions of palliative care. Additionally, they will appreciate the role of alternative medicine in cancer care.
CO3	Students will be able to assess and manage patients with specific malignant disorders, including malignancies of the GI system (oral, esophagus, stomach, rectum, liver, pancreas, and care of ostomies/stomas), respiratory, genitourinary (prostate, bladder, renal, testicular), gynecological (cervix, uterus, ovary), hematological (lymphomas, leukemias), musculoskeletal, endocrine, skin, and head and neck (brain tumors) cancers, as well as other malignancies like breast cancer and AIDS-related Kaposi's sarcoma.
CO4	Enabling students to understand the Nursing Management of Physiological Conditions and Symptoms of Cancer, the impact of cancer on sexuality, design layouts for oncology institutions, and manage oncology units such as OPDs, chemotherapy units, and pain clinics. Students will be able to apply quality assurance programs, understand the etiology of cancer, and develop standards for oncology unit management and nursing care.
CO5	The Students able to recognize and manage Oncological emergencies. Apply specific concepts of pain management. Appreciate the care of death and dying patients and value of bereavement support. Counsel the patients with cancer and their families. Appreciate the legal & ethical issues relevant to oncology nursing. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing. Recognize the role of oncology nurse practitioner as a member of oncology team.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Diagnostic Evaluation, Levels of prevention and care Infection control, The Nature of Cancer	<p>Introduction: Epidemiology-Incidence, Prevalence – Global, National, State and Local ,Disease burden, concept of cancer, risk factors □ Historical perspectives, Trends and issues, Principles of cancer management, Roles and responsibilities of oncology nursing.</p> <p>Diagnostic Evaluation: Health assessment: History taking, physical examination, Staging and grading of tumors, TNM Classification , Common diagnostic tests, Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay. Cytology: Fine needle aspiration cytology (FNAC) , Histopathology: Biopsy, Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging , Endoscopies Nurses responsibilities in diagnostic measures.</p> <p>Levels of prevention and care □ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, Self examination-Oral, Breast, Testicular Secondary prevention – early diagnosis. Screening , Tertiary prevention – disability limitation, Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc. Patient and family education, Discharge instruction, follow-up care and use of community resources.</p> <p>Infection control: Process of infection, risk of hospitalization, nosocomial infections-prevention and control of infection in acute, long term care facility and community based care, Standard safety measures.</p> <p>The Nature of Cancer , Normal cell biology, The Immune system: Pathological and pathophysiological changes in tissues, Biology of the cancer cell , Clone formation Transformation , Tumor stem lines, Structure of a solid tumor, Products produced by the tumor, Systemic effects of tumor growth.</p>	26	CO1
II	Cancer Treatment Modalities and Nurse's Role, Palliative care	<p>Cancer Treatment Modalities and Nurse's Role : Surgery , Principles of surgical oncology , Current surgical strategy, Determining surgical risk , Special surgical techniques, Pre-intra-postoperative nursing care , Acute and chronic surgical complications , Future directions and advances, Chemotherapy, Principles and classification of chemotherapeutics, Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity , Calculating drug doses, Therapeutic response to chemotherapy-Tumor variables, drug resistance, Safety precautions , Radiation Therapy, Physics of radiotherapy , Types of ionizing rays , Radiation</p>	25	CO2

		<p>equipments: Linear accelerator, cobalt, Implants, Isotopes, Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy , Effects of radiation on the body tissue, Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. Approaches to radiation therapy – External radiotherapy, Internal radiotherapy – unsealed, Sealed sources. Effectiveness of radiotherapy-Radiosensitivity, treatment effects, Complications of radiotherapy , Radiation safety: Standards of Bhaba Atomic Research Centre (BARC).</p> <p>Bone Marrow Transplantation /Stem Cell Transplantation, Types, indications, transplantation procedure, complications and nursing management , Types and donor sources, Preparation and care of donor and recipient, Bone marrow bank , Legal and ethical issues . Immunotherapy (Biotherapy) , Concepts and principles , Classification of agents, Treatment and applications , Gene Therapy, Current Concepts and practices □ Alternative and Complementary Therapies, Current practices.</p> <p>Palliative care, Definition and scope, philosophy, Concept and elements of palliative care, Global and Indian perspective of palliative care, Quality of life issues, Communication skill, Nursing perspective of palliative care and its elements, Home care, Hospice care Role of nurse in palliative care</p>		
III	Nursing Care of Patients With Specific Malignant Disorders	<p>Nursing Care of Patients With Specific Malignant Disorders, Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver & pancreas, care of ostomies/stoma, Respiratory malignancies, Genito urinary system malignancies- prostate Bladder, renal testicular malignancies, Gynecological malignancies-cervix, uterus, ovary , Hematological malignancies-Lymphomas, Leukemias. Malignancies of musculoskeletal system , Endocrine malignancies, Skin, Head and Neck -brain tumors, Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)</p>	30	CO3
IV	Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient, Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic, Etiology of Cancer	<p>Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient: Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations □ Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop Other symptoms, Dyspepsia & hiccup, dyspnoea, intestinal obstruction, Fungating wounds , Anxiety & depression, insomnia , Lymph edema Impact of cancer on sexuality: Effects of radiotherapy/chemotherapy/surgery on sexuality of the cancer patient , Nursing management of cancer patients experiencing sexual dysfunction □ Sexual counselling.</p> <p>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc □ Practice Standards of oncology nursing , Policies and Procedures, Establishing Standing orders and Protocols Quality Assurance Programme in oncology units, Nursing audit.</p> <p>Etiology of Cancer: Carcinogenesis, Theories of cancer causation , Risk factors. Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation □ Hormone changes, diet, emotional factors.</p>	31	CO4
V	Pain management Non-Pharmacological pain relief technique: Cancer Emergencies, Psycho-Social Aspects of Nursing Care	<p>Pain management:- Theories, types and Nature of cancer pain, Pathophysiology of pain, Pain threshold, Assessment of pain, Principles of cancer pain control, Pharmacological: Opioid and non-opioid analgesic therapy, Patient controlled analgesia(PCA), Other invasive techniques of pain control, Recent developments in Cancer pain, Non- Pharmacological pain relief technique- Complementary therapies(Music, massage, meditation, relaxation techniques, biofeedback etc), Psychological intervention in pain control, Alternative system of medicines Role of nurse</p> <p>Cancer Emergencies: Disseminated intravascular coagulation(DIC), Malignant pleural effusion, Neoplastic cardiac tamponade and septic shock spinal cord compression, Superior vena cava syndrome, Metabolic emergency: hyper and hypo calcemia, Surgical emergency. Urological emergency: Hemorrhage, Organ obstruction, Brain metastasis, Nurses role in managing oncologic emergencies.</p> <p>Psycho-Social Aspects of Nursing Care : Psychological responses of patients with cancer, Psychosocial assessment – Crisis intervention, coping mechanisms, Stress management, spiritual/cultural care and needs, Counseling: individual and family, Maximizing quality of life of patient and family Ethical, moral and legal issues- End of life care, Grief and grieving process, Bereavement support, Care of Nurses who care for the dying.</p>	28	CO5
Practical's:				
<p>Procedures Observed: CT Scan, MRI, PET Scan(Positron Emission Tomography), Ultra sound, Mammography, Radio Nuclide Imaging, Bone Scan, Thyroid Function Test, Functional and Metabolic Imaging, Transportation of radioactive materials, Others.</p> <p>Procedures Assisted: IV cannulation – Open method, Chemotherapy, Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation, Interstitial implantation, Bio-therapy and Gene therapy, Teletherapy – Treatment planning, Bone marrow aspiration and biopsy, Biopsy – tissue, FNAC – Fine Needle Aspiration Cytology and biopsy, Advance Cardiac life support, Endotracheal intubation, Defibrillation Ventilation, Tracheostomy, Thoracentesis, Paracentesis, Lumbar Puncture, Arterial Blood Gas, Nerve Block, Chest tube insertion, Intercostal drainage, CVP monitoring.</p> <p>Procedure Performed: Screening for cancer, Assessment of pain, Assessment of Nutritional status, Care of Tracheostomy, Endotracheal intubation, Gastric gavage, Pap smear, IV cannulation, Care of surgical flaps, Care of ostomies, Blood transfusion and component therapy, Counseling, Practice standard safety measures, Care of dead body and mortuary formalities.</p> <p>Other procedures(As per the institutional protocol): Alternative therapies</p>			950	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Mehta RS. <i>Oncology Nursing</i> . New Delhi: Jaypee Brothers Medical Publishers.				

Langhorne M, Fulton J, Otto SE. <i>Oncology Nursing</i> . St. Louis: Mosby.
Yarbro CH, Wujcik D, Gobel BH. <i>Oncology Nursing Review</i> . Sudbury: Jones and Bartlett Publishers, Inc.
aloney-Newton S, Hickey M, Brant JM. <i>Mosby's Oncology Nursing Advisor: A Comprehensive Guide to Clinical Practice</i> . St. Louis: Mosby.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	1	2	3	1	1	1	3	2	1
CO2	3	3	3	2	2	2	2	2	3	3	2
CO3	3	3	3	2	3	2	1	2	3	3	2
CO4	3	3	3	3	2	3	2	2	3	3	2
CO5	3	3	3	3	2	3	2	2	3	3	2
1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation											



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR605	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Neurosciences Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neuroscience nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.						

Course Outcomes	
CO1	The Students able to appreciate trends and issues related to neurology and neurosurgical Nursing. Review the anatomy and physiology of nervous system. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders. Perform neurological assessment and assist in diagnostic procedures. Describe the concepts and principles of neuroscience nursing.
CO2	Enable students to describe various drugs used in neuroscience and identify nurses' responsibilities. Students will assist in therapeutic and surgical procedures, understand epidemiology and risk factors of neurological conditions, and promote health through disease prevention and lifestyle modification. They will also address the management of cranio-cerebral, spinal, and peripheral nerve injuries, cerebrovascular disorders, and nutritional needs of neurological patients, including common issues, assessment, and strategies for managing metabolic and electrolyte imbalances and chronic fatigue syndrome.
CO3	Enable students to understand the causes, pathophysiology, clinical features, diagnosis, prognosis, and management (medical, surgical, and nursing) of various neurological conditions, including motor neuron diseases, movement disorders, dementia, Parkinson's disease, multiple sclerosis, Alzheimer's, neuro infections, epilepsy, seizures, status epilepticus, syncope, Meniere's syndrome, and cephalgia. Students will be able to demonstrate advanced skills in managing patients with neurological and neurosurgical disorders through a nursing process approach.
CO4	Enable students to understand the developmental disorders, neuro muscular disorders, neoplasms, and other disorders includes understanding their causes, pathophysiology, clinical types, features, diagnosis, prognosis, and management (medical, surgical, and nursing). Students will be able to identify psychosocial problems in patients with disabilities and assist them and their families in coping with emotional distress, grief, anxiety, and spiritual concerns.
CO5	Aims for students to participate in preventive, promotive, and rehabilitative services for neurological and neurosurgical patients. Students will be able to explain the legal and ethical issues related to brain death, organ transplantation, and neuroscience nursing practice. They will also develop standards of care for quality assurance, plan and design the physical layout of neuro intensive care units, and address neuro emergencies, including causes, pathophysiology, clinical features, diagnosis, prognosis, and management—both medical, surgical, and nursing.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Review of Anatomy and physiology Assessment and diagnostic measures:	<p>Introduction: Introduction to neuroscience(neurological and neurosurgical) nursing, History-Development in neurological and neurosurgical nursing, Service & education, Emerging trends and issues in neurology and neuro surgery and its implication to nursing., neurological and neurosurgical problems – Concepts, principles and nursing perspectives, Ethical and legal issues, Evidence based nursing and its application in neurological and neurosurgical nursing.</p> <p>Review of Anatomy and physiology: Embryology, Structure and functions of Nervous system- CNS, ANS, cerebral circulation , cranial and spinal nerves and reflexes, motor and sensory functions □ Sensory organs.</p> <p>Assessment and diagnostic measures: Assessment, History taking, Physical assessment, psychosocial assessment , Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing. Common assessment abnormalities: Diagnostic measures, Cerebro spinal fluid analysis, Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology. Electorgraphic studies- Electro encephalo graphy, MEG, EMG, video EEG, Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials Ultrasound studies-Carotid duplex, transcranial Doppler sonography, Immunological studies , Biopsies – muscle, nerve and Brain. Interpretation of diagnostic measures Nurse's role in diagnostic tests.</p>	30	CO1
II	Epidemiology, Traumatic conditions, Cerebro vascular disorders, Meeting Nutritional needs of neurological patients:	<p>Epidemiology: Major health problems- Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. Health promotion, disease prevention, life style modification and its implications to nursing Alternate system of medicine/complementary therapies.</p> <p>Traumatic conditions.: Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of - Cranio cerebral injuries. Spinal & Spinal cord injuries. Peripheral nerve injuries. Unconsciousness.</p> <p>Cerebro vascular disorders-Causes, pathophysiology, Clinical types, Clinical features,</p>	30	CO2

		diagnosis, Prognosis , Management: medical, surgical and Nursing management of Stroke & arterio venous thrombosis. Haemorrhagic embolus, Cerebro vascular accidents. Intracranial aneurysm. Subarchnoid Haemorrhage. Arterio venous fistula. Brain tumours, Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy. Meeting Nutritional needs of neurological patients: Basic nutritional requirements, Metabolic changes following injury and starvation, Nutritional assessment, Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs, Special metabolic and electrolyte imbalances, Chronic fatigue syndrome		
III	Degenerating and demyelinating disorders, Neuro infections, Paroxysmal disorders	Degenerating and demyelinating disorders: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Motor neuron diseases. Movement disorders- Tics, dystonia, chorea, Wilson's disease, essential tremors, Dementia, Parkinson's disease, Multiple sclerosis., Alzheimer's Neuro infections: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Neuro infections, Meningitis-types, Encephalitis, Poliomyelitis, Parasitic infections, Bacterial infections, Neurosyphilis. HIV & AIDS, Brain abscess. Paroxysmal disorders: Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of Epilepsy and seizures, Status epilepticus, Syncope, Menier's syndrome, Cephalgia.	30	CO3
IV	Developmental disorders, Neuro muscular disorders, Neoplasms-surgical conditions, Drugs used in neurological and neurosurgical disorders	Developmental disorders: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Hydrocephalus, Craniosynostosis, spina bifida- Meningocele, Meningomyelocele encephalocele, syringomyelia. Cerebro vascular system anomalies. Cerebral palsies. Down's syndrome. Neuro muscular disorders: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Polyneuritis – G B Syndrome, Muscular dystrophy, Myasthenia gravis, Trigeminal neuralgia, Bell's palsy, Menier's disease , Carpal tunnel syndrome, Peripheral neuropathies. Neoplasms- surgical conditions: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Space occupying lesions –types, Common tumors of CNS, Drugs used in neurological and neurosurgical disorders: Classification, Indications, contraindications, actions and effects, toxic effects Role of nurse	30	CO4
V	Neuro emergencies, Rehabilitation, Quality assurance in neurological nursing practice, Ethical and legal issues in neuroscience nursing.	Neuro emergencies: Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Increased intracranial pressure, Unconscious, Herniation syndrome, Seizures, Severe head injuries, Spinal injuries, Cerebro vascular accidents. Rehabilitation: Concept and Principles of Rehabilitation. Factors affecting quality of life and coping, Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain, Physiotherapy. Counselling, Care giver's role Speech & Language.-Neurogenic communication disorders, Speech therapy. Quality assurance in neurological nursing practice: Role of advance practitioner in neurological nursing, Professional practice standards, Quality control in neurologic nursing, Nursing audit, Neuro ICU- Philosophy, aims and objectives, Policies, staffing pattern, design and physical plan of neuro ICU, Team approach, functions, Psychosocial aspects in relation to staff and clients of neuro ICU, In-service education. Ethical and legal issues in neuroscience nursing: Brain death and organ transplantation, Euthanasia , Negligence and malpractice, Nosocomial infections	25	CO5

Practical's:

Procedures Observed: CT scan, MRI, PET, EEG, EMG, Sleep pattern studies/Therapy, Radiographical studies, Neuro surgeries, Nerve conduction studies, Ultrasound studies, Any other.

Procedures Assisted: Advanced Cardiac life support, Lumbar Puncture, Biopsies – muscle, nerve and Brain, Arterial Blood Gas, ECG Recording, Blood transfusion, IV cannulation – open method, Endotracheal intubation, Ventilation, Tracheostomy, ICP monitoring, Gama Knife, Cerebral angiography, Myelography, Neuro surgeries.

Procedures Performed: Airway management, Application of Oro Pharyngeal Airway, Care of Tracheostomy, Conduct Endotracheal Intubation, use of AMBU bag, artificial respirators, Setting of Ventilators and Care of patients on ventilators, Cardio Pulmonary Resuscitation –Defibrillation, Neurological assessment -Glasgow coma scale, Gastric Lavage, IV Cannulation, Administration of emergency IV Drugs, fluid, Care of patients with incontinence, bladder training Catheterization, Care of patients on traction related to the neurological conditions, Blood Administration. Muscle strengthening exercises, Guidance and counseling, Monitoring – management and care of monitors.

950

CO1, CO2,
CO3, CO4,
CO5

Reference Books:

Clement I. *Textbook on Neurological & Neurosurgical Nursing*. Jaypee Brothers Medical Publishers.

Woodward S, Mestecky M. *Neuroscience Nursing - Evidence Based Practice*. John Wiley and Sons Ltd.

Prema. *Essentials Of Neurological & Neurosurgical Nursing*. Jaypee Brother Medical Publishers.

Ryan D. *Handbook of Neuroscience Nursing - Care of the Adult Neurosurgical Patient*. Thieme.

Omar S, Krebs C, Weinberg J, Akesson E, Dilli E. *Lippincott Illustrated Reviews: Neuroscience (SAE)*. Wolters Kluwer India.

Kaur Sukhpal. *Clinical Neurosciences & Critical Care Nursing*. Jaypee Brother Medical Publishers.

Hickey J. *The Clinical Practice Of Neurological And Neurosurgical Nursing*. Wolters Kluwer.

Wilkins L. *Essentials of Neurological and Neurosurgical Nursing*. Medicare Health Science.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	2	2	2	2	1	3	2	1
CO2	2	3	2	2	3	2	2	1	3	2	1
CO3	3	3	3	2	3	2	2	1	3	2	2
CO4	2	3	2	2	3	2	2	1	3	2	1
CO5	3	2	2	3	3	3	2	1	3	2	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR606	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Nephro-Urology Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing						

Course Outcomes	
CO1	The Students able to appreciate trends and issues related to nephro and urological Nursing. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions. Perform physical, psychosocial & spiritual assessment. Assist in various diagnostic, therapeutic and surgical interventions. Appreciate the role of alternative system of medicine in the care of patient
CO2	The Students able to provide comprehensive nursing care to patients with nephro and urological conditions.
CO3	Enables students to provide comprehensive nursing care to patients with nephro-urological conditions, focusing on renal immunopathology, immune mechanisms of glomerular vascular diseases, and mediator systems. Students will be able to assess and manage urinary tract infections, bladder and ureteral disorders, urinary dysfunctions, benign prostatic hypertrophy (BPH), and renal emergencies, including related pathophysiology, medical, surgical, and nursing management.
CO4	The Students able to describe the various drugs used in nephro and urological conditions and nurses responsibility. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions. Design a layout of kidney transplant unit and dialysis unit.
CO5	Students will be able to discuss legal and ethical issues in nephro-urological nursing, develop standards of practice, and teach and supervise nurses and allied health workers. They will identify sources of stress and manage burnout syndrome, focusing on the rehabilitation of patients with nephrological problems and pediatric urinary disorders. Students will explore the etiology, clinical manifestations, diagnosis, and management of children with nephrological conditions, as well as critical care aspects such as dialysis and KTP units, policies, staffing, team functions, psychosocial aspects, and quality assurance in nephrological nursing practice.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Epidemiology and Assessment and Diagnostic Measures	Introduction- Historical development: trends and issues in the field of nephro and urological nursing, nephro and urological problems, Concepts, principles and nursing perspectives, Ethical and legal issues, Evidence based nursing and its application in nephro and urological nursing (to be incorporated in all the units) Epidemiology- Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders, Risk factors associated with nephro and urological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations. Health promotion, disease prevention, life style modification and its implications to nursing, Alternate system of medicine/complementary therapies. Assessment and diagnostic measures, History taking, Physical assessment, psychosocial assessment. Common assessment abnormalities- dysuria, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyuria, anuria, oliguria. Diagnostic tests- urine studies, blood chemistry, radiological procedures- KUB, IVP, nephrotomogram, retrograde pyelogram, renal arteriogram, renal ultrasound, CT scan, MRI, cystogram, renal scan, biopsy, endoscopy-cystoscopy, urodynamics studies- cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, video urodynamics, Whitaker study, Interpretation of diagnostic measures, Nurse's role in diagnostic tests.	30	CO1
II	Review of anatomy and physiology of urinary system, Glomerular disorders and nursing management	Review of anatomy and physiology of urinary system- Embryology, Structure and functions, Renal circulation, Physiology of urine formation, Fluid and electrolyte balance, Acid base balance, Immunology specific to kidney. Glomerular disorders and nursing management- Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of Glomerulonephritis- chronic, acute, nephritic syndrome, Acute Renal failure and chronic renal failure, Renal calculi. Renal tumours- benign and malignant, Renal trauma, Renal abscess, Diabetic nephropathy, Vascular disorder, Renal tuberculosis, Polycystic, Congenital disorder, Hereditary renal disorders.	30	CO2
III	Altered pulmonary conditions, Vascular disorders and nursing management	Renal immunopathy/ Immunopathology- General Concept of immunopathology / Immune mechanism of glomerular vascular disease, Role of mediators in the renal vascular system disease. Urological Disorders and Nursing Management- Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of Urinary tract infections- pyelonephritis, lower urinary tract infections, Disorders of ureters, bladder and urethra. Urinary tract infections- Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux. Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities, Benign prostatic hypertrophy (BPH), Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters. Urethral disorders- tumours, trauma, congenital anomalies of Ureters. Management of Renal emergencies- Anuria, Acute	30	CO3

		Renal failure, Poisoning, Trauma, Urine retention.		
IV	Drugs used in urinary disorders, Dialysis, Kidney transplantation	Drugs used in urinary disorders- Classification, Indications, contraindications, actions and effects, toxic effects, Role of nurse Dialysis- Historical, types, Principles, goals, Hemodialysis –vascular access sites-temporary and permanent, Peritoneal dialysis, Dialysis Procedures-steps, equipments, maintenance, Role of nurse-predialysis, intra and post dialysis. Complications-Counseling, patient education, Records and reports. Nursing management of a patient with Kidney transplantation. Kidney transplantations-a historical review, Immunology of graft rejections. The recipient of a renal transplant, Renal preservations, Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation. Surgical techniques of renal transplantations, Chronic renal transplant rejection. Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication, KTP in children and management of pediatric patient with KTP. KTP in developing countries, Results of KTP, Workup of donor and recipient for renal transplant, Psychological aspect of KTP and organ donations, Ethics in transplants, Cadaveric transplantation.	30	CO4
V	Rehabilitation of patient with nephrological problems, pediatric urinary disorders, critical care units- dialysis, KTP unit, quality assurance in nephrological nursing practice:	Risk factors and prevention, Rehabilitation of patients on dialysis and after kidney transplant, Rehabilitation of patients after urinary diversions, Family and patient teaching. Etiology, Clinical manifestations, Diagnosis, Prognosis, Related pathophysiology, Medical, Surgical And Nursing Management Of children with renal diseases- UTI, Ureteral reflux, Glomerulonephritis, Nephrotic syndrome infant nephrosis, Cystic kidneys, Familial factors in renal diseases in childhood, Haemolyticuraemic, Syndrome, Tumour. Philosophy, Aims and objectives, Policies, Staffing pattern, Design and physical plan of dialysis and KTP units, Team approach, Functions, Psychosocial aspects in relation to staff and clients of ICU, Dialysis unit, In-Service education, Ethical and legal issues, Role of advance practitioner. In nephrological nursing, Professional practice standards, Quality control in nephrological nursing, Nursing audit.	25	CO5
Practical's:				
Procedures Observed: CT Scan, MRI, Radiographic studies, Urodynamics, Hemodialysis, Renal Surgeries. Procedures Assisted: Blood transfusion, I V cannulation therapy, Arterial Catheterization, Insertion of central line/cvp line, Connecting lines for dialysis, Peritoneal dialysis, Renal biopsy, Endoscopies- Bladder, urethra. Procedure Performed: Health assessment, Insertion of urethral and suprapubic catheters, Urine analysis, Catheterisation, Peritoneal dialysis, Bladder irrigation, Care of ostomies, Care of urinary drainage, Bladder training, Care of vascular access, Setting up dialysis machine and starting, monitoring and closing dialysis, Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions. Collection of specimen, Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance, Nutritional needs , diet therapy & patient education, Counselling			950	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Kandula UR, Natha H, Aspin R. <i>Nephro-Urology Nursing</i> . Bluerose Publishers Pvt. Ltd.				
Thomas N, Noble H. <i>Renal Nursing: Care and Management of People With Kidney Disease</i> . Blackwell Pub.				
Downey P. <i>Introduction to Urological Nursing</i> . John Wiley & Sons Inc.				
Quallich SA, Lajiness MJ. <i>The Nurse Practitioner in Urology: A Manual for Nurse Practitioners, Physician Assistants and Allied Healthcare Providers</i> .				
Mahon A, Jenkins L, Burnapp L. <i>Oxford Handbook of Renal Nursing</i> . Oxford University Press.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
	CO										
CO1	3	2	2	1	2	1	2	2	3	2	2
CO2	3	3	2	1	2	2	2	2	3	3	2
CO3	3	3	3	2	3	2	3	2	3	3	3
CO4	2	2	2	3	2	1	1	2	3	2	2
CO5	3	2	3	2	3	2	3	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR607	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Orthopedic Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of orthopedic nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic nurse practitioner/specialist providing quality care. It will further enable the student to function as educator, manager, and researcher in the field of orthopedic nursing.						

Course Outcomes	
CO1	The student will be able to appreciate the history and developments in orthopedic nursing, identify the psycho-social needs of patients, and provide holistic care. They will perform physical and psychological assessments for patients with orthopedic conditions and disabilities, and provide care for patients with various orthopedic devices such as splints, braces, casts, tractions, beds, mattresses, implants, prosthetics, and orthotics. Additionally, students will understand trauma and injuries, including their causes, pathophysiology, clinical features, diagnosis, prognosis, and management.
CO2	Students will be able to understand the causes, pathophysiology, clinical types, features, diagnosis, prognosis, and management (medical, surgical, and nursing) of bone tumors, deformities (scoliosis, kyphosis, lordosis), congenital spinal disorders, intervertebral disc prolapse, fractures, low back disorders, and nutritional/metabolic/endocrine disorders. They will apply the nursing process in providing care to patients with orthopedic conditions, including those requiring rehabilitation, particularly in pediatric orthopedic cases.
CO3	Students will be able to recognize nurses role in orthopedic conditions and manage orthopedic emergencies, including conditions requiring replacement surgeries (hip, knee, shoulder), spine surgeries, grafts, flaps, and deformity corrections. They will demonstrate understanding of physiotherapy principles, including mobilization exercises, re-education techniques, various gaits, and therapies like hydrotherapy, electrotherapy, and chest physiotherapy. Students will also describe recent technologies and treatment modalities used in the management of orthopedic conditions and rehabilitation.
CO4	Students will be able to integrate family-centered, long-term care and community-based rehabilitation for patients with orthopedic conditions. Students will be able to counsel patients and their families, describe orthotic and prosthetic appliances, and understand the legal, ethical, and alternative medicine aspects of orthopedic care. They will also recognize the role of orthopedic nurse practitioners within the orthopedic and rehabilitation teams. Additionally, students will learn about the care of geriatric patients, principles of drug administration, and pharmacokinetics relevant to orthopedic and neuromuscular disorders, including the care of medications and national policies and programs.
CO5	Enables students to understand the Infections of Bones and Joints causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, and management, including medical, surgical, and nursing interventions. It covers quality assurance, standards, protocols, policies, procedures, nursing audits, staffing, and the design of orthopedic, physiotherapy, and rehabilitation units. Students will also learn about chronic and degenerative joint diseases, autoimmune disorders, and neuro-muscular disorders, focusing on their causes, pathophysiology, clinical types, features, diagnosis, prognosis, and medical-surgical and nursing management.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, Care of patients with devices, Trauma Injuries	To know historical perspectives – History and trends in orthopedic nursing , To understand definition and scope of orthopedic nursing , To review anatomy and physiology of Musculo-skeletal system, To understand body Posture, Body landmarks Skeletal system Muscular system. Nervous system - Main nerves, To know Healing of - Injury, bone injury, To repair of ligaments, To understand Systemic response to injury, To learn Ergonomics, Body mechanics, biomechanical measures, To understand Orthopedic team to demonstrate Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing. To Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies Splints, braces, various types of plaster cast, Various types of tractions, To know various types of orthopedic beds and mattresses, To learn comfort devices, To Implants in orthopedic : To understand about Prosthetics and Orthotics Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management To demonstrate about Shoulder and arm ,Elbow, fore arm, wrist, hand , Hip, thigh, knee, leg, ankle, foot , Spine, Head injury ,Chest injury.	30	CO1
II	Bone Tumors Infections of Bones and Joints Deformities Disorders of the spine Nutritional/Metabolic and Endocrine Disorders	To understand about Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: Bone tumors – Benign, Malignant and metastatic, Different types of therapies for tumors, Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis, Congenital disorders: Congenital dislocation of hip(CDH), Dislocation of patella, knee, Varus and valgus deformities, Deformities of digits, Congenital torticollis. Meningocele, meningocele, spina bifida, Chromosomal disorders. Computer related deformities Intervertebral disc prolapse, Fracture of the spine, Low back disorder – Low back pain, PND, spinal stenosis, spondylosis Nutritional/Metabolic and Endocrine Disorders: Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management General and special consideration on pediatric orthopedics. Genetic disorders, Congenital anomalies, Growth disorders, Genetic counseling.	30	CO2

III	Nurses Role in Orthopedic Conditions Orthopedic Reconstructive Surgeries Physiotherapy	To demonstrate about Gait analysis, Urodynamic studies, Prevention of physical deformities, Alteration of body temperature regulatory system and immune systems, Immobilization – cast, splints, braces and tractions, Prevention and care of problems related to immobility, Altered sleep patterns, Impaired communication, Self care and activities of daily living, Bladder and bowel rehabilitation, Sensory function rehabilitation, Psychological reaction related to disabilities and disorders. Coping of individual and family with disabilities and disorders, Maintaining sexuality, Spirituality – A rehabilitative prospective Orthopaedic Reconstructive Surgeries, Replacement surgeries – Hip, Knee, Shoulder, Spine surgeries, Grafts and flaps surgery, Deformity correction. Physiotherapy , Concepts, Principles, purpose, Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques, Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, callipers, Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat, Chest physiotherapy	30	CO3
IV	Geriatric Problems Pharmacokinetics National Policies and Programmes Rehabilitation	To know about Geriatric population, types of disabilities, causes, treatment and Management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. Care at home – involvement of family and community, follow up care and rehabilitation Principles of drug administration. Analgesics and anti inflammatory agents. Antibiotics, Antiseptics, Drugs used in orthopedics and neuromuscular disorders. Blood and blood components. Care of drugs and nurses role National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes. Regional rehabilitation centers etc. Various types of therapies : Special therapies and alternative therapies , Rehabilitation counselling. Preventive and restorative measures. Community based rehabilitation (CBR). Challenges in rehabilitation. Role of the nurse in rehabilitation, Legal and ethical issues in rehabilitation nursing. Occupational therapy.	32	CO4
V	Quality assurance Neuro-Muscular Disorders: Infections of Bones and Joints Chronic/Degenerative Diseases of Joints and Autoimmune Disorders	To understand about Standards, Protocols, Policies, Procedures, Nursing audit, Staffing, Design of orthopedic, physiotherapy and rehabilitation unit Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management, Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management: Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Osteo Arthritis, Rheumatoid Arthritis, Ankylosing spondylitis. Spinal disorders. Systemic Lupus Erythematosus, Orthopedic Disorders in Children:	28	CO5

Practical's:

Procedures Observed: X Ray, Ultrasound, MRI, C T Scan/bone scan, Arthroscopy, Electrothermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy), Fluoroscopy, Electromyography, Myelography, Discography, Others.

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

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

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CO1, CO2,
CO3, CO4,
CO5

Reference Books:

Murphy C. *Orthopaedic Nursing Nursing Textbook Series*. ED Tech Press Exclusive.

Clarke S. *Orthopaedic and Trauma Nursing - An Evidence-based Approach to Musculoskeletal Care*. John Wiley & Sons Inc.

Rebecca Jester, Julie Santy Tomlinson, Jean Rogers. *Oxford Handbook of Trauma and Orthopaedic Nursing*. OUP Oxford.

Bailey C. *Textbook Of Orthopedic Nursing*. Ringer Med Press.

Avery K. *Orthopaedics for Nurses*. Medicare Health Science.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	1	1	1	2	2	1	3	2	1
CO2	3	2	1	1	1	2	2	1	3	2	2
CO3	3	2	2	2	3	2	3	2	3	3	2
CO4	3	3	2	3	3	2	3	3	3	3	3
CO5	3	3	2	2	3	3	2	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR608	Title of the Course	Clinical Speciality-II Medical Surgical Nursing Sub Speciality- Gastro Enterology Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing						

Course Outcomes	
CO1	The Students able to appreciate trends and issues related to gastro enterology nursing. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions. Perform physical, psychosocial & spiritual assessment. Assist in various diagnostic, therapeutic and surgical procedures. Appreciate the role of alternative system of medicine in care of patient. Discuss the legal and ethical issues in GE nursing. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing
CO2	Students will be able to explain the etiology, clinical manifestations, diagnosis, prognosis, and management of gastrointestinal disorders, including medical, surgical, and nursing care. They will demonstrate skills in handling equipment, ensure infection control, maintain quality assurance through audits, and describe drug use and nurses' responsibilities. Additionally, they will manage GE units, including layout, staffing, supplies, and adherence to policies and protocols.
CO3	Students will be able to analyze the etiology, clinical manifestations, diagnosis, prognosis, and related pathophysiology of disorders of the liver, pancreas, and gall bladder, as well as gastrointestinal emergencies. They will apply knowledge of medical, surgical, and nursing management to provide comprehensive care and interventions for these conditions.
CO4	Students will be able to understand and explain congenital anomalies of the esophagus, stomach, duodenum, developmental anomalies of the intestine, and Hirschsprung's disease, focusing on their etiology, pathophysiology, clinical manifestations, and management.
CO5	Students will be able to analyze the Nutrition and nutritional problems related to the GI system, as well as malignant disorders of the gastrointestinal system, includes understanding the etiology, clinical manifestations, diagnosis, prognosis, and pathophysiology. Students will be able to apply knowledge of medical, surgical, and other treatment modalities, along with nursing management, to provide comprehensive care. Additionally, students will gain skills in educating and training patients in gastrointestinal care. Teach and supervise nurses and allied health workers.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction Epidemiology Review of anatomy and physiology of gastrointestinal system Assessment and diagnostic measures	Introduction, Historical development: trends and issues in the field of gastro enterology. Gastro enterological problems, Concepts, principles and nursing perspectives, Ethical and legal issues, Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units). Epidemiology: Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations. Health promotion, disease prevention, life style modification and its implications to nursing. National health programmes related to gastro enterology. Alternate system of medicine/complementary therapies. Review of anatomy and physiology of gastrointestinal system, Gastrointestinal system. Liver, biliary and pancreas. Gerontologic considerations. Embryology of GI system. Immunology specific to GI system Assessment and diagnostic measures, History taking, Physical assessment, psychosocial assessment. Diagnostic tests, Radiological studies: Upper GIT- barium swallow, lower GIT- Barium enema, Ultra sound: Computed tomography, MRI. Cholangiography: Percutaneous transhepatic Cholangiogram(PTC). Magnetic Resonance Cholangio pancreatography (MRCP), Nuclear imaging scans(scintigraphy), Endoscopy Colonoscopy, Proctosigmoidoscopy, Endoscopic Retrograde Cholangio pancreatography (ERCP), Endoscopic ultrasound, Peritonoscopy(Laproscopy), Gastric emptying studies. Blood chemistries: Serum amylase, serum lipase, Liver biopsy, Miscellaneous tests: Gastric analysis, fecal analysis. Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests, Lipid metabolism- serum cholesterol Interpretation of diagnostic measures Nurse's role in diagnostic tests.	30	CO1
II	Gastro intestinal disorders and nursing management, Administration and management of GE unit, Malignant disorders of gastro intestinal system.	Gastro intestinal disorders and nursing management. Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of . Disorders of the mouth: Dental caries, Periodontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw. Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum. Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain . Disorders of the small intestine. Malabsorption syndrome – tropical sprue. Gluten – sensitive enteropathy (Coeliac disease). Inflammatory diseases of intestines and abdomen:, appendicitis, Peritonitis, Intestinal obstruction, Abdominal TB, Gastrointestinal	30	CO2

		polyposis syndrome. Chronic inflammatory bowel disease, Ulcerative colites, crohn's disease. Infestations and infections – Worm infestations, Typhoid, Leptospirosis, Solitary rectal ulcer syndrome. Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease, Anal condylomas, WartsAdministration and management of GE unit : Design & layout, Staffing, Equipment, supplies, Infection control; Standard safety measures. Quality Assurance:-Nursing audit – records /reports, Norms, policies and protocols, Practice standards. Malignant disorders of gastro intestinal system: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: Malignancy of oral cavity ,Lip,Tongue,buccal mucosa, oropharynx, Salivary gland, Esophageal , Gastric , Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma, Liver, biliary tract and Pancreatic carcinoma.		
III	Disorder of liver, pancreas gall bladder and nursing management and Gastro intestinal emergencies and nursing interventions	Disorder of liver, pancreas gall bladder and nursing management. Disorders of liver biliary tract : Viral Hepatitis – A, B, C, D & E □ Toxic hepatitis. Cirrhosis of liver, liver failure, Liver transplantation, Non cirrhotic portal fibrosis, Liver abscess,; Parasitic and other cysts of the liver. Disorders of the Gall Bladder and Bile Duct: Cholecystitis, Cholelithiasis, Choledocholithiasis. Disorders of the pancreas: Pancreatitis, Benign tumors of islet cells. Disorders of the Peritoneum: Infections of the peritoneum, Surgical peritonitis, Spontaneous bacterial peritonitis, Tuberculosis peritonitis, Disorders of the Diaphragm: Diaphragmatic hernia, Congenital hernias, Paralysis of diaphragm, Tumors of the diaphragm, Hiccups. Gastro intestinal emergencies and nursing interventions: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of: Esophageal varices, Ulcer perforation, Acute cholecystitis, Diverticulitis, Fulminant hepatic failure, Biliary obstruction, Bowel obstruction, Gastroenteritis, Intussusception, Acute intestinal obstruction, perforation , Acute pancreatitis, Cirrhosis of liver complications: Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries, Acute appendicitis /peritonitis, Acute abdomen, Food poisoning	30	CO3
IV	Congenital Anomalies of Esophagus, Stomach, Duodenal and intestine. Hirschsprung's disease, Pharma Kinetics.	Congenital Anomalies of Oesophagus, Esophageal atresia, Tracheo esophageal fistula, Esophageal stenosis, Esophageal duplications, Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus, Esophageal rings – schalzkiring, Esophageal webs, Congenital Anomalies of Stomach, Gastric atresia , Micro gastria, Gastric diverticulum, Gastric duplication, Gastric teratoma, Gastric volvulus, Infantile hypertrophic pyloric stenosis, Adult hypertrophic pyloric stenosis, Congenital Anomalies of Duodenal, Duodenal Atresia or stenosis, Annular pancreas, Duodenal duplication cysts, Malrotation and mid gut volvulus. Developmental anomalies of the intestine: Abdominal wall defects (omphalocele and Gastroschisis). Meckel's diverticulum, Intestinal atresia , Hirschsprung's disease Pharmokinetics, Drugs used in GIT , Principles of administration . Roles responsibilities of nurses. Drugs in Peptic ulcer disease, Proton Pump inhibitors, H2 Receptor Antagonists, Cytoprotective Agents: Drugs used in Diarrhea, Drugs used in constipation , Drugs used in Inflammatory Bowel Disease, Aminosaliclates, Corticosteroids, Immunomodulators, chemotherapy , Antibiotics, Antiemetics: Anticholinergics, Antihistaminics, Anthelmintics, Vitamin Supplements.	30	CO4
V	Nutrition and nutritional problems related to GI system Malignant disorders of gastro intestinal system Education and training in GE care	Nutritional assessment and nursing interventions. Therapeutic diets, Adverse reactions between drugs and various foods, Malnutrition- etiology , clinical manifestations and management, Tube feeding, parenteral nutrition, total parenteral nutrition. Obesity- etiology, clinical manifestations and management. Eating disorders- anorexia nervosa, bulimia nervosa. Recent advances in nutrition Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: Malignancy of oral cavity ,Lip, Tongue, buccal mucosa, oropharynx, Salivary gland, Esophageal , Gastric , Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma, Liver, biliary tract and Pancreatic carcinoma Staff orientation, training and development, In-service education program, Clinical teaching programs.	25	CO5
Practical's:				
Procedures Assisted: Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic), Sigmoidoscopy, Colonoscopy, Polypectomy, Endoscopic retrograde cholangio pancreatography (ERCP), Liver biopsy, Percutaneous catheter drainage (PCD) of Pseudocyst pancreas, Abdominal paracentesis, Percutaneous aspiration of liver abscess, GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test Procedures Performed: History and Physical assessment, RT intubation / extubation / aspiration/suction, Gastric lavage and gavage, Bowel wash, Therapeutic Diets, Ostomy feeding, Stoma care, Monitoring vital parameters, Plan of inservice education programme for nursing staff and Class-IV employees, Counseling.			950	CO1, CO2, CO3, CO4, CO5
Reference Books:				
Smith G. <i>Gastrointestinal Nursing</i> . Chichester: John Wiley and Sons Ltd.				
Maxwell J. <i>Gastrointestinal Nursing Nursing</i> . London: ED Tech Press Exclusive.				
Burch J. <i>Oxford Handbook of Gastrointestinal Nursing</i> . Oxford: Oxford University Press.				
e-Learning Source:				



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR609	Title of the Course	Clinical Speciality-II Obstetric and Gynaecological Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist the student in developing expertise and in- depth understanding in the field of Obstetric and gynecological Nursing .It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynecological conditions. It will further enable the students to function as midwifery nurse practitioner/ specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.						

Course Outcomes	
CO1	Students will be able to describe the epidemiology, etiology, pathophysiology, and diagnostic assessment of women with obstetric and gynecological conditions. They will perform comprehensive physical, psychosocial, cultural, and spiritual assessments, demonstrate competence in managing pregnancies at risk due to obstetric complications, and provide education, training, and clinical teaching in obstetrical and gynecological care.
CO2	Students will be able to identify and manage pregnancies at risk due to pre-existing health problems, abnormal labor, pre-term labor, and obstetrical emergencies. They will understand the etiology, pathophysiology, and nursing management of these conditions and effectively handle obstetrical and neonatal emergencies as per established protocols.
CO3	Students will be able to understand the concept, goals, assessment, and principles of high-risk newborn care. They will demonstrate skills in nursing management, utilize advanced technology and diagnostic modalities, handle equipment for obstetrical, gynecological, and neonatal care, and design layouts for specialty units. Additionally, they will develop infection control measures and standards for nursing practice in these areas.
CO4	Students will be able to counsel women and families effectively regarding postpartum complications, including the nursing management of HIV/AIDS, care of HIV-positive mothers and their babies, and prevention of parent-to-child transmission. They will demonstrate knowledge of epidemiology, screening, prophylaxis, standard safety measures, breastfeeding issues, and national guidelines while addressing legal, ethical, psychosocial, and rehabilitation concerns.
CO5	Students will be able to perform gynecological assessments and procedures, analyze the etiology, pathophysiology, and diagnosis of gynecological problems, and provide effective nursing management. They will also function as independent midwifery nurse practitioners, delivering competent and evidence-based care.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Management of problems of women during pregnancy, Education and training in obstetrical and gynaecological care.	Risk approach of obstetrical nursing care , concept &goals. Screening of high-risk pregnancy, newer modalities of diagnosis. Nursing Management of Pregnancies at risk-due to obstetrical complication: Pernicious Vomiting., Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases., Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta praevia, abruption placenta., Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolysis Elevated liver enzyme Low Platelet count(HELLP). Iso-immune diseases. Rh and ABO incompatibility. Hematological problems in pregnancy. Hydramnios-oligohydramnios Prolonged pregnancy postterm, postmaturity. Multiple pregnancies. Intrauterine infection & pain during pregnancy. Intra Uterine Growth Retardation (IUGR), Premature Rupture of Membrane (PROM), intrauterine death. Education and training in obstetrical and gynaecological care: Staff orientation, training and development, In-service education program, Clinical teaching programs.	30	CO1
II	Pregnancies at risk-due to pre-existing health problems, Abnormal labour, pre-term labour & obstetrical emergencies	Metabolic conditions, Anemia and nutritional deficiencies, Hepatitis, Cardio-vascular disease, Thyroid diseases, Epilepsy, Essential hypertension, Chronic renal failure. Tropical diseases. Psychiatric disorders. Infections Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection(RTI);STD; HIV/AIDS, Vaginal infections; Leprosy, Tuberculosis Other risk factors: Age- Adolescents, elderly; unwed mothers, sexual abuse, substance use. Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst. Etiology, pathophysiology and nursing management of Uncoordinated uterine contractions, Atony of uterus, precipitate labour, prolonged labour. Abnormal lie, presentation, position compound presentation. Contracted pelvis-CPD; dystocia. Obstetrical emergencies Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapsed cord. Augmentation of labour. Medical and surgical induction. Version, Manual removal of placenta., Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations, Genital tract injuries Third degree perineal tear, VVF, RVF Complications of third stage of labour: Postpartum Hemorrhage. Retained placenta.	30	CO2
III	High Risk Newborn, Administration and management of obstetrical and gynaecological unit	Concept, goals, assessment, principles, Nursing management of: Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance use mothers. Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum. Icterus neonatorum., Birth injuries. Advanced neonatal procedures. Calculation of fluid requirements., Hematological conditions- Erythroblastosis, fetal, hemorrhagic disorder in the newborn. Organization of	30	CO3

		neonatal care, services(Levels), transport,, neonatal intensive care unit, organization and management of nursing services in NICU. Administration and management of obstetrical and gynaecological unit: Design & layout, Staffing, Equipment, supplies, Infection control; Standard safety measures. Quality Assurance:-Obstetric auditing –records /reports, Norms, policies and protocols. Practice standards for obstetrical and gynaecological unit.		
IV	Postpartum complications, HIV/AIDS	Nursing management of Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism, Sub involution of uterus, Breast conditions, Thrombophlebitis. Psychological complications, post partum blues, depression, psychosis. HIV/AIDS: HIV positive mother and her baby, Epidemiology Screening Parent to child transmission (PTCT), Prophylaxis form other and baby, Standard safety measures, Counseling, Breast feeding issues, National policies and guidelines, Issues: Legal,ethical, Psychosocial and rehabilitation. Role of nurse.	25	CO4
V	Gynecological problems and nursing management	Gynecological assessment, Gynecological procedures, Etiology, pathophysiology, diagnosis and nursing management of Menstrual irregularities, Diseases of genital tract, Genital tract infections, Uterine displacement, Genital prolapsed, Genital injuries, Uterine malformation. Uterine fibroid, ovarian tumors, Breastcarcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy–vaginal and abdominal. Sexualabuse ,rape, trauma, assault.	25	CO5

Practical's:

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

Procedures Assisted: Operative delivery, Abnormal deliveries-Forceps application, Ventouse, Breech, Exchange blood transfusion, Culdoscopy, Cystoscopy, Tuboscopy, Laparoscopy, Endometrial Biopsy, Tubal patent test, Chemotherapy, Radiation therapy, Medical Termination of Pregnancy, Dilatation and Curettage.

Procedures Performed: History taking, Physical Examination-General, Antenatal assessment. – 20, Pelvic examination, Assessment of risk status. Assessment of Intra uterine foetal well-being.kick chart and foetal movement chart, Doppler assessment, Non Stress Test, Contraction stress test(Oxytocin challenge test). Universal precautions- Disposal of biomedical waste. Per Vaginal examination and interpretation (early pregnancy, labour, post partum). Utilization of Partograph, Medical & Surgical induction(Artificial rupture of membranes), Vacuum extraction, Conduct of delivery, Prescription and administration of fluids and electrolytes through intravenous route. Application of outlet forceps, delivery of breach – Burns Marshall, Loveset manoeuvre Repair of tears and Episiotomy suturing. Vacuum extraction controlled cord traction, Manual removal of placenta, placental examination, Manual vacuum aspiration, Postnatal assessment.- 20, Management of breast engorgement, Thrombophlebitis (white leg), Postnatal counseling. Reposition of inversion of uterus. Laboratory tests: Blood-Hb, Sugar, Urine-albumin, sugar, Breast care, breast exam, and drainage breast abscess.Postnatal exercise, Assessment –New born assessment; physical and neurological, Apgar score, high-risk newborn, Monitoring neonates; Clinically and With monitors, Capillary refill time, Assessment of jaundice, danger signs, Anthropometric measurement, Neonatal resuscitation, Gastric Lavage, Care of newborn in multi channel monitor and ventilator, Care of newborn in radiant warmer and incubator, Kangaroo mother care, Assisting mother with exclusive Breast-feeding, Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition, Assesment, calculation and administration of fluids and medications: Oral, ID, IM, IV- Securing IV line, infusion pump, Administration of drug per rectum, Capillary blood sample collection, Oxygen therapy, Phototherapy, Chest physiotherapy. counseling – Parental, bereavment, family planning, infertility etc. Setting of operation theatre. Trolley and table set up for Obstetrical & gynaecological operations, Pap smear, Vaginal smear, Insertion of pessaries, Insertion of IUD and removal, Teaching skills, communication skills, Prepare referral slips, Pre transport stabilization, Networking with other stake holders

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CO1, CO2,
CO3, CO4,
CO5

Reference Books:

Annamma Jacob. *A Comprehensive Textbook Of Midwifery & Gynecological Nursing*. Jaypee Brothers Medical Publishers.

Kaur S. *Textbook Of Obstetric And Gynecological Nursing*. CBS Nursing.

Niksy Abraham. *Textbook of Midwifery/Obstetrics & Gynecology (OBG) Nursing - I with SBA Module*. Frontline Publications.

Phillip Bennett. *Basic Science in Obstetrics and Gynaecology*. Elsevier.

Ramandeep Kaur. *Textbook Of Midwifery/Obstetrics & Gynecology (OBG) Nursing*. Vision Health Sciences Publisher.

Sandeep Kaur. *Textbook Of Midwifery Obstetrics And Gynecology Nursing*. CBS Publishers and Distributors Pvt. Ltd.

Hiralal Konar. *DC Dutta's Textbook of Obstetrics*. Jaypee Brothers Medical Publishers (P) Ltd.

Raddi. *Principles & Practices of Obs and Gynae Nursing*. Elsevier.

Shivani Sharma, Neelam Kumari. *A Text Book Of Midwifery/Obstetrics And Gynecology (OBG) Nursing*. S Vikas and Company.

Kirti Harjai. *Textbook of Midwifery and Gynecological Nursing*. AITBS Publishers.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	2	3	2	2	2	3	2	2
CO2	3	3	2	2	3	2	2	2	3	2	2

CO3	3	3	2	2	3	3	2	2	3	2	2
CO4	3	2	2	3	3	2	2	2	3	2	3
CO5	3	3	3	2	3	2	2	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR610	Title of the Course	Clinical Speciality-II Pediatric (Child Health) Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing.						

Course Outcomes	
CO1	Enables students to understand current principles, practices, and trends in Pediatric Nursing, including the role of the pediatric nurse in various settings such as High-Risk Newborn care. Students will be able to apply concepts, goals, and principles in nursing management, crisis intervention, and counseling for hospitalized children, as well as those facing terminal illness and death. They will also develop skills to apply the nursing process in caring for ill infants to pre-adolescents in both hospital and community settings.
CO2	The student will be able to assess, interpret, and manage pediatric medical disorders, including respiratory, gastrointestinal, renal, cardiovascular, endocrine, neurological, oncological, blood, and skin disorders, as well as common eye, ENT, and communicable diseases. The student will demonstrate advanced nursing skills in the management of children with medical and surgical problems through effective assessment, treatment modalities, and nursing interventions.
CO3	Enables students to demonstrate the ability to assess, interpret diagnostic procedures, and implement treatment modalities and nursing interventions for pediatric medical disorders, including gastrointestinal, neurological, genito-urinary, and skeletal anomalies, as well as eye, ENT, traumatic injuries, and oncological conditions. Students will develop advanced skills in managing both medical and surgical problems in children.
CO4	Enables students to provide resuscitation, stabilization, and monitoring of pediatric patients in critical care settings. Students will gain knowledge on the anatomical and physiological aspects of critical illness in children, care for long-term ventilation, and address the nutritional and legal aspects in pediatric intensive care. They will also learn about developmental disturbances, adjustment reactions, and various disorders like ADHD, autism, and depression, along with strategies for the care and rehabilitation of physically and mentally challenged children.
CO5	Enables students to calculate drug doses, administer medications, oxygen, and blood, and understand drug interactions and adverse effects. Students will be able to manage pediatric care units, including their design, staffing, equipment, and adherence to policies, protocols, and practice standards. Additionally, the course covers documentation, education, and training in pediatric care, focusing on staff orientation, in-service programs, and clinical teaching.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Introduction, High Risk Newborn	Current principles, practices and trends in Pediatric Nursing, Role of pediatric nurse in various settings -Expanded and extended Concept, goals, assessment, principles ,Nursing management of Post-mature infant, and baby of diabetic and substance use mothers., Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum, Icterus neonatorum., Birth injuries, Hypoxic ischaemic encephalopathy, Congenital anomalies, Neonatal seizures, Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia, Neonatal heart diseases, Neonatal hemolytic diseases, Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS, Advanced neonatal procedures, Calculation of fluid requirements, Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn, Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU	30	CO1
II	Pathophysiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders	Pathophysiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders, Child with respiratory disorders: - Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. - Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis, Child with gastro-intestinal disorders: - Diarrheal diseases, gastro-esophageal reflux. - Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation. - Malabsorption syndrome, Malnutrition, Child with renal/urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation, Child with cardio-vascular disorders: - Acquired: Rheumatic fever, Rheumatic heart disease, - Congenital: Cynotic and acynotic, Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia, Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome, Child with oncological disorders: Leukemias, Lymphomas, Wilms’ tumor, nephroblastomas,	35	CO2

		neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors, Child with blood disorders: Anemias, thalassemias, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation, Child with skin disorders, Common Eye and ENT disorders, Common Communicable diseases		
III	Assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders	Assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders, Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs' disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, 124 gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia, Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus, Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder, Anomalies of the skeletal system, Eye and ENT disorders, Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma - Head injury, abdominal injury, poisoning, foreign body obstruction, burns - & Bites, Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuro blastoma, Hodgkin's/Non-Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma, Management of stomas, catheters and tubes, Management of wounds and drainages	35	CO3
IV	Intensive care for pediatric clients Developmental disturbances and implications for nursing Challenged child and implications for nursing	Resuscitation, stabilization & monitoring of pediatric patients, Anatomical & physiological basis of critical illness in infancy and childhood, Care of child requiring long-term ventilation, Nutritional needs of critically ill child, Legal and ethical issues in pediatric intensive care, ntensive care procedures, equipment and techniques, Documentation Adjustment reaction to school, Learning disabilities, Habit disorders, speech disorders, Conduct disorders, Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia. Physically challenged, causes, features, early detection & management, Cerebral palsied child, Mentally challenged child., Training & rehabilitation of challenged children	30	CO4
V	Drugs used in Pediatrics Administration and management of pediatric care unit Education and training in Pediatric care	Criteria for dose calculation, Administration of drugs, oxygen and blood, Drug interactions, Adverse effects and their management Design & layout, Staffing, Equipment, supplies, Norms, policies and protocols, Practice standards for pediatric care unit, Documentation Staff orientation, training and development, In-service education program, Clinical teaching programs.	20	CO5

Practical's:

Procedures Observed: Echo cardiogram, Ultrasound head, ROP screening (Retinopathy of prematurity), Any other.

Procedures Assisted: Advanced neonatal life support, Lumbar Puncture, Arterial Blood Gas, ECG Recording, Umbilical catheterization – arterial and venous, Arterial B P monitoring, Blood transfusion- exchange transfusion full and partial, IV cannulation & therapy, Arterial catheterization, Chest tube insertion, Endotracheal intubation, Ventilation, Insertion of long line, Assist in surgery.

Procedures Performed: Airway Management: Application of Oro Pharyngeal Airway, Oxygen therapy, CPAP(Continuous Positive Airway Pressure), Care of Tracheostomy, Endotracheal Intubation, Neonatal Resuscitation, Monitoring of Neonates – clinically & with monitors, CRT(Capillary Refill Time), assessment of jaundice, ECG, Gastric Lavage, Setting of Ventilators, Phototherapy, Assessment of Neonates: Identification & assessment of risk factors, APGAR, Score, gestation age, Anthropometric assessment, Weighing the baby, Newborn examination, detection of life threatening congenital abnormalities, Admission & discharge of neonates, Feeding - management of breast feeding, artificial feeding, expression of breast milk, OG(Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counseling, Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermoregulation & control. Administration of Drugs: I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/ insulin syringes, Monitoring fluid therapy, Blood administration. Procedures for prevention of infections: Hand washing, disinfections & sterilization, surveillance, fumigation, Collection of specimens, Setting, Use & maintenance of basic equipment: Ventilator, O2 analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow

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CO1, CO2, CO3, CO4, CO5

Reference Books:

Susamma Varghese, Anupama Susmitha. *Textbook of Pediatric Nursing*. Jaypee Brothers Medical Publishers.

Rimple Sharma. *Essentials of Pediatric Nursing*. Jaypee Brothers Medical Publishers.

Parul Datta. *Pediatric Nursing*. Jaypee Brothers Medical Publishers.

Mukesh Chandra Sharma. *Essentials of Pediatric Nursing*. Wolters Kluwer.

Assuma Beevi. *Concise Textbook of Paediatric Nursing*. Elsevier.

Sarkar Subrata. *Pediatric Nursing*. Jaypee Brothers Medical Publishers.

A. Judie. *Wong's Essentials of Pediatric Nursing: Second South Asia Edition*. Elsevier.

A. Sudhakar. <i>Essentials of Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.
Terri Kyle, Susanna Carman. <i>Essentials of Pediatric Nursing</i> . Lippincott Williams & Wilkins.
Padmaja A. <i>Textbook of Child Health Nursing</i> . Jaypee Brothers Medical Publishers.
Piyush Gupta. <i>Essential Pediatric Nursing</i> . Jaypee Brothers Medical Publishers.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	2	2	1	2	2	3	2	1
CO2	3	3	2	2	3	2	2	1	3	3	2
CO3	3	3	3	2	3	2	2	1	3	3	3
CO4	3	2	3	3	3	3	2	2	3	3	3
CO5	2	3	2	3	3	3	2	2	3	2	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR611	Title of the Course	Clinical Speciality-II Psychiatric (Mental Health) Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of Psychiatric Nursing. It will help students to develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing						

Course Outcomes	
CO1	Enables students to apply the nursing process in the care of patients with mental disorders in both hospital and community settings. They will demonstrate advanced skills in managing patients with mental health issues, including crisis intervention, anger/aggression management, and care for patients with disorders of infancy, childhood, adolescence, delirium, dementia, and amnesic disorders. Students will also gain competence in managing suicidal clients and effectively addressing psychiatric emergencies.
CO2	Students will be able to identify and manage schizophrenia, other psychotic disorders, substance-related and mood disorders. They will develop the skills to care for special groups, including children, adolescents, women, the elderly, abused and neglected individuals, and those living with HIV/AIDS, ensuring appropriate and effective interventions.
CO3	Students will be able to identify and manage anxiety, somatoform, sleep, dissociative, sexual and gender identity, eating, adjustment, and impulse control disorders, while understanding historical aspects and epidemiological statistics. They will apply psychopharmacology and nursing management, utilize recent technology, and different treatment modalities in managing psychiatric emergencies and patients with mental disorders.
CO4	Enables students to identify and diagnose medical conditions related to psychological factors, personality disorders, aging, HIV, and abuse or neglect. Students will learn to assess symptoms, understand psychopharmacology, and provide effective treatment and nursing management. They will also be able to provide nursing care to critically ill patients with mental disorders.
CO5	Enables students to understand and apply the principles of Community Mental Health Nursing, Ethical and Legal Issues in Psychiatric Nursing, Psychosocial Rehabilitation, Counseling, and Administration of psychiatric units, including emergency care. Students will be able to appreciate the legal and ethical aspects of psychiatric nursing, and teach psychiatric nursing to undergraduate students and in-service nurses while effectively managing and delivering psychiatric care education and training.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Principles and practice of Psychiatric nursing, Crisis Intervention, Anger/ Aggression Management, The Suicidal Client, Disorders of Infancy, Childhood, and Adolescence, Delirium, Dementia, and Amnesic Disorders	Crisis, Definition, Phases In The Development of A Crisis , Types of Crisis; Dispositional , Anticipated Life Transitions, Traumatic Stress, Maturation/ Development , Reflecting Psychopathology, Psychiatric Emergencies and their management, Grief and grief reaction, Crisis Intervention; Phases, Post traumatic stress disorder (PTSD), Role of the Nurse. Anger and Aggression, Types, Predisposing Factors, Management, Role of The Nurse. The Suicidal Client: Epidemiological Factors, Risk Factors, Predisposing Factors: Theories of Suicide-Psychological, Sociological, Biological, Nursing Management. Mentally Challenged, Autistic Disorders, Attention-Deficit/Hyperactivity Disorder, Conduct Disorders, behavioural disorders, Oppositional Defiant Disorder, Tourette's Disorders, Separation Anxiety Disorder, Psychopharmacological Intervention and Nursing Management. Delirium, Dementia , Amnesia, Psychopharmacological Intervention and Nursing Management	31	CO1
II	Substance-Related Disorders, Schizophrenia and Other Psychotic Disorders (Check ICD10), Mood Disorders	Substance-Use Disorders, Substance-Induced Disorders, Classes Of Psychoactive Substances, Predisposing Factors, The Dynamics Of Substance-Related Disorders: The Impaired Nurse, Codependency, Treatment Modalities For Substance-Related Disorders and Nursing Management. Schizophrenia and Other Psychotic Disorders (Check ICD10): Nature of the Disorder, Predisposing Factors, Schizophrenia –Types, Disorganized Schizophrenia, Catatonic Schizophrenia, Paranoid Schizophrenia, Undifferentiated Schizophrenia, Residual Schizophrenia, Other Psychotic disorders, Schizoaffective Disorder, Brief Psychotic Disorder, Schizophrenic form Disorder, Psychotic Disorder Due to a General Medical Condition, Substance-Induced Psychotic Disorder, Treatment and Nursing Management. Mood Disorders: Historical Perspective, Epidemiology, The Grief Response, Maladaptive Responses To Loss, Types Of Mood Disorders, Depressive disorders, Bipolar disorders, Treatment and Nursing Management .	28	CO2
III	Anxiety Disorders, Somatoform And Sleep Disorders, Dissociative Disorders and Management, Sexual And Gender Identity Disorders, Eating Disorders, Adjustment and Impulse Control	Historical Aspects, Epidemiological Statistics, How Much is too Much?, Types, Panic Disorder, Generalized Anxiety Disorder, Phobias, Obsessive-Compulsive Disorder, Posttraumatic Stress Disorder, Anxiety Disorder Due to a General Medical Condition, Substance-Induced Anxiety Disorder, Treatment Modalities, Psychopharmacology & Nursing Management. Somatoform Disorders, Historical Aspects, Epidemiological Statistics: Pain Disorder, Hypochondriasis, Conversion Disorder, Body Dysmorphic Disorder, Sleep Disorder, Treatment Modalities and Nursing Management. Dissociative Disorders and Management: Historical Aspects, Epidemiological Statistics, Application of the Nursing Management, Treatment Modalities and Nursing Management. Development Of Human Sexuality, Sexual Disorders, Variation In Sexual Orientation,	29	CO3

	Disorders.	Nursing Management. Eating Disorders: Epidemiological Factors, Predisposing Factors : Anorexia Nervosa And Bulimia Nervosa obesity, Psychopharmacology, Treatment & Nursing Management . Historical and Epidemiological Factors: Adjustment Disorders, Impulse Control Disorders, Treatment & Nursing Management.		
IV	Medical Conditions due to Psychological Factors, Personality Disorders, The Aging Individual, The person living with HIV Disease, Problems Related to Abuse or Neglect	Asthma, Cancer, Coronary Heart Disease, Peptic Ulcer, Essential Hypertension, Migraine Headache, Rheumatoid Arthritis, Ulcerative Colitis, Treatment & Nursing Management. Historical perspectives, Types Of Personality Disorders: Paranoid Personality Disorder, Schizoid Personality Disorder, Antisocial Personality Disorder, Borderline Personality Disorder, Histrionic Personality Disorder, Narcissitic Personality Disorder, Avoidance Personality Disorder, Dependent Personality Disorder, Obsessive-Compulsive Personality Disorder, Passive-Aggressive Personality Disorders, Identification, diagnostic, symptoms, Psychopharmacology, Treatment & Nursing Management. Epidemiological Statistics: Biological Theories, Biological Aspects of Aging, Psychological Aspects of Aging, Memory Functioning, Socio-cultural aspects of aging, Sexual aspects of aging, Special Concerns of the Elderly Population, Psychiatric problems among elderly population, Treatment & Nursing Management. Psychological problems of individual HIV/AIDS, Counseling, Treatment & Nursing Management. Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged, Predisposing Factors, Treatment & Nursing management- Counseling .	22	CO4
V	Community Mental Health Nursing, Ethical and Legal Issues in Psychiatric/Mental Health Nursing, Psychosocial rehabilitation, Counseling, Administration and management of psychiatric units including emergency units, Education and training in psychiatric care	National Mental Health Program- Community mental health program, The Changing Focus of care, The Public Health Model, The Role of the Nurse, Case Management, The community as Client, Primary Prevention, Populations at Risk, Secondary prevention, Tertiary Prevention, Community based rehabilitation. Ethical Considerations, Legal Consideration, Nurse Practice Acts, Types of Law, Classification within Statutory and Common Law, Legal Issues in Psychiatric/Mental Health Nursing, Nursing Liability. Principles of rehabilitation, Disability assessment, Day care centers, Half way homes, Reintegration into the community, Training and support to care givers, Sheltered workshops, Correctional homes. Liaison psychiatric nursing, Terminal illnesses-Counseling, Post partum psychosis-treatment, care and counseling, Death dying- Counseling, Treatment, care and counseling, Unwed mothers, HIV and AIDS. Administration and management of psychiatric units including emergency units: Design & layout, Staffing, Equipment, supplies, Norms, policies and protocols, Quality assurance, Practice standards for psychiatric nursing, Documentation. Staff orientation, training and development, In-service education program, Clinical teaching programs.	32	CO5

Practical's:

Procedures Observed: Psychometric tests, Personality tests, Family therapy, Assisted, CT, MRI, Behavioral therapy.
Procedures Performed: Mental status examination, Participating in various therapies – Physical; ECT, Administration of Oral, IM, IV psychotropic drugs, Interviewing skills, Counseling skills, Communication skills, Psychoeducation, Interpersonal relationship skills, Community Survey for identifying mental health problems, Rehabilitation therapy, Health education and life skills training, Supportive psychotherapeutic skills, Group therapy, Milieu therapy, Social/Recreational therapy, Occupational therapy.

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CO1, CO2,
CO3, CO4, CO5

Reference Books:

Prakash P. *Textbook of Mental Health and Psychiatric Nursing*. New Delhi: CBS Publishers.

Sandeep Arya, Bharat Pareek. *Textbook of Mental Health & Psychiatric Nursing*. Jaipur: Vision Health Sciences Publisher.

Bimla Kapoor. *Textbook of Psychiatric Nursing*. Ludhiana: Kumar Publishing House.

KP Neeraja. *Essential of Mental Health and Psychiatric Nursing*. New Delhi: Jaypee Brothers Medical Publishers.

Sheila L. Videbevk. *Psychiatric Mental Health Nursing*. Philadelphia: Wolters Kluwer Publishers.

e-Learning Source:

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	2	2	1	2	2	3	2	2
CO2	3	3	3	2	2	2	2	2	3	3	2
CO3	3	2	2	2	3	2	2	2	3	2	3
CO4	3	2	3	3	3	2	2	2	3	3	3
CO5	2	3	3	3	3	2	2	3	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR612	Title of the Course	Clinical Speciality-II Community Health Nursing	L	T	P	C
Year	Second	Semester	Non Semester	4	-	6	10
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	This course is designed to assist students in developing expertise and in- depth understanding in the field of community health nursing. It will help students to develop advanced skills for nursing intervention in various aspects of community health care settings. It will enable the student to function as community health Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of community health nursing.						

Course Outcomes	
CO1	Students will be able to understand the concept, scope, and history of modern epidemiology, including its contributions, implications, and methods. They will learn to apply epidemiological principles in community health nursing practice, study communicable and non-communicable diseases, emerging health issues, and health promotion strategies. Students will also gain knowledge of aging processes, health problems, psycho-physiological stressors, and elderly care, including government welfare programs, and the role of community health nurses in managing geriatric health needs.
CO2	The Students able to perform community health assessment and plan health programmes. Describe the various components of Reproductive and child health programme. Describe the role and responsibilities of community health nurse in various national health and family welfare programmes. Participate in the implementation of various national health and family welfare programme.
CO3	Enables students to understand the school health key concepts like health assessment, screening, safe environment, and services such as first aid and treatment of minor ailments. Students will be able to identify roles in inter-sectoral coordination, adolescent health, disaster management, and international health issues. They will also gain the ability to maintain health records, demonstrate leadership in organizing community health services, and apply knowledge of global health priorities, international health agencies, and health legislation.
CO4	Enables students to understand and apply key concepts in education and administration, including quality assurance, infection control, nursing audit, and budgeting. Students will be able to design layouts for Sub-Centres/Primary Health Centres/Community Health Centres, develop standards for community health practice, and demonstrate competencies in family-centered nursing care. Additionally, students will be equipped to understand roles in rehabilitation, ethical issues, psychosocial rehabilitation, and the functions of voluntary organizations and public relations in community health.
CO5	Enables students to understand the Community Mental Health magnitude, trends, and issues of mental health, including national programs and community-based rehabilitation. Students will learn to manage crises, collaborate in case management, and assess public health models, with a focus on primary, secondary, and tertiary prevention. They will explore the role of community health nurses in addressing human rights, substance use, and occupational health, while understanding the legal and ethical aspects of workplace safety, ergonomics, and disaster management. Students will also develop skills to promote health and prevent occupational diseases.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
I	Epidemiology, Geriatric	Introduction, Concept, scope, definition, trends, History and development of modern Epidemiology: Contribution of epidemiology, Implications. Epidemiological methods, Measurement of health and disease: Health policies, Epidemiological approaches: Study of disease causatives, Health promotion, Levels of prevention. Epidemiology of Communicable diseases, Non-communicable diseases, Emerging and re-emerging diseases Epidemics, National Integrated disease Surveillance Programme, Health information system, Epidemiology study and reports, Role of Community health nurse. Geriatric: Concept, trends, problems and issues, Aging process, and changes, Theories of ageing, Health problems and needs, Psycho-physiological stressors and disorders, Myths and facts of aging, Health assessment, Home for aged-various agencies, Rehabilitation of elderly, Care of elderly, Elderly abuse, Training and supervision of care givers, Government welfare measures Programmes for elderly- Role of NGOs, Roles and responsibilities of Geriatric nurse in the community.	30	CO1
II	National Health and Family Welfare Programmes	Objectives, Organisation/manpower/resources, Activities, Goals, inter-sectoral approach, implementation, item/purpose, role and responsibilities of community health nurse: National Vector Borne Disease Control Programm (NVBDGP), NationalFilaria Control Programme, National Leprosy Eradication Programme, Revised national TB Control Programme, National Programme for Control of Blindness, National Iodine Deficiency disorders Control Progeramme, National Mental Health Programme, National AIDS Control Programme, National Cancer Control Programme, RCH I and II, Non-communicable disease programmes, NRHM, Health Schemes: ESI, CGHS, Health Insurance.	40	CO2
III	School Health, International health	School Health: Introduction: definition, concepts, objectives, Health assessment, Screening, identification, referral and follow up, Safe environment, Services, programmes and plans-first aid, treatment of minor ailments. Inter-sectoral coordination, Adolescent health, Disaster, disaster preparedness, and management, Guidance and counseling, School health records - maintenance and its importance, Roles and responsibilities of community health nurse. Global burden of disease, Global health rules to halt disease spread, Global health priorities and programs, International quarantine, Health tourism, International cooperation and assistance, International travel and trade, Health and food legislation, laws, adulteration of food, Disaster management, Migration, International health agencies –World Health	30	CO3

		organizations, World health assembly, UNICEF, UNFPA, SIDA, US AID, DANIDA, DFID. AusAID etc. International health issues and problems, International nursing practice standards, International health vis-a vis national health, International health days and their significance.		
IV	Education and administration, Rehabilitation	Quality assurance, Standards, Protocols, Policies, Procedures, Infection control; Standard safety measures, Nursing audit, Design of Sub-Centre/Primary Health Centre/ Community health center, Staffing; Supervision and monitoring-Performance appraisal, Budgeting, Material management, Role and responsibilities of different categories of personnel in community health, Referral chain- community outreach services, Transportation, Public relations, Planning in-service educational programme and teaching. Rehabilitation: Introduction: Concepts, principles, trends, issues, Rehabilitation team, Models, Methods, Community based rehabilitation, Ethical issues, Rehabilitation Council of India, Disability and rehabilitation- Use of various prosthetic devices, Psychosocial rehabilitation, Rehabilitation of chronic diseases, Restorative rehabilitation, Vocational rehabilitation, Role of voluntary organizations, Guidance and counseling, Welfare measures, Role and responsibilities of community health nurse.	25	CO4
V	Community mental health, Occupational health	Magnitude, trends and issues, National Mental Health Program- Community mental health program, The Changing Focus of care, The Public Health Model, Case Management- Collaborative care, Crisis intervention, Welfare agencies, Population at Risk, The community as Client, Primary Prevention, Secondary prevention, Tertiary Prevention, Community based rehabilitation, Human rights of mentally ill, Substance use, Mentally challenged groups, Role of community health nurse. Occupational health: Introduction: Trends, issues, Definition, Aims, Objectives, Workplace safety, Ergonomics and Ergonomic solutions, Occupational environment- Physical, social, Decision making, Critical thinking, Occupational hazards for different categories of people- physical, chemical, biological, mechanical, , Accidents, Occupational diseases and disorders, Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation, Women and occupational health, Occupational education and counseling, Violence at workplace, Child labour , Disaster preparedness and management, Legal issues: Legislation, Labour unions, ILO and WHO recommendations, Factories act, ESI act. Role of Community health nurse, Occupational health team.	25	CO5

Practical's:

Observed: MCH office and DPHNO, CHC/ First Referral Unit(FRU), Child guidance clinic, Institute/Unit for mentally challenged, District TB centre, AIDS control society, Filariasis clinic, RCH clinic, STD clinic, Leprosy clinic, Community based rehabilitation unit, Cancer centers, Palliative care, Home of old age, Mental health units, De-addiction centres, School health services, Industry, Selected industrial health centers, ESI unit, Municipality/ corporation office
Assisted: Laparoscopic sterilization, Vasectomy, All clinics related to RCH, Monitoring of national health and family welfare programmes
Performed: Conduct various clinics, School health assessment, Health survey, Health assessment, Drug administration as per the protocols, Treatment of minor ailments, Investigating outbreak of epidemic. Screening for leprosy, TB and non-communicable disease, Presumptive and radical treatment for Malaria. Counselling, Report writing, Referrals, Writing a project proposal, Material management- requisition for indent, condemnation, inventory maintenance, Training and Supervision of various categories of personnel, Liaison with NGO's

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CO1, CO2,
CO3, CO4,
CO5

Reference Books:

Manivannan SD. *Comprehensive Textbook of Community Health Nursing*. CBS Publishers and Distributors Pvt. Ltd.

Prof. R.P Saxena. *Textbook of Community Health Nursing*. Lotus Publishers.

Bijayalaskhmi Dash. *A Comprehensive Textbook of Community Health Nursing*. Jaypee Brothers Medical.

S Kamalam. *Essentials in Community Health Nursing Practice*. Jaypee Brother Medical Publishers.

Veerabhadrapa GM. *The Short Textbook of Community Health Nursing*. Jaypee Brother Medical Publishers.

Keshav Swarankar. *Community Health Nursing*. N.R. Brothers.

K K Gulani. *Community Health Nursing (Principles & Practices)*. Kumar Publishing House.

D'Souza Jacintha. *Manual of Community Health Nursing Practice*. Jaypee Brother Medical Publishers.

K Park. *Essentials of Community Health Nursing*. Bhanot.

Clement I. *Manual of Community Health Nursing*. Jaypee Brother Medical Publishers.

Baljit Kaur. *Community Health Nursing Procedures*. Jaypee Brother Medical Publishers.

Thressiamma. *Procedures and Theories of Community Health Nursing*. Jaypee Brother Medical Publishers.

Bandana. *Community Health Nursing*. Jaypee Brothers Medical Publishers Pvt. Ltd.

e-Learning Source:

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	2	2	2	3	2	2	2	2	3	2	3

CO2	2	3	2	2	2	2	3	2	3	3	2
CO3	2	2	2	3	2	3	3	2	3	3	3
CO4	3	3	3	3	2	2	2	2	3	2	2
CO5	2	2	2	2	3	3	2	3	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR613	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Cardio Vascular and Thoracic Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip nursing students with clinical competence and critical thinking skills to assess, plan, and deliver evidence-based care for patients with cardiovascular and thoracic conditions, including diagnostic procedures, emergency interventions, respiratory therapies, and specialized care in critical and surgical settings.						

Course Outcomes	
CO1	Demonstrate clinical competence in assisting, performing, and interpreting diagnostic and assessment procedures related to cardiovascular and thoracic conditions, including ECG analysis, cardiac and pulmonary function monitoring, and preparation of clients for diagnostic imaging and interventional procedures, in accordance with evidence-based nursing practices.
CO2	Apply critical thinking and nursing process to plan and implement evidence-based care for patients with myocardial infarction, congestive heart failure, heart block, and respiratory failure, ensuring monitoring, timely interventions, and patient education.
CO3	Demonstrate competence in performing pulmonary and vascular procedures such as spirometry, tuberculin skin test, aerosol/nebulizer therapy, chest physiotherapy, CPR, thrombophlebitis assessment, and therapeutic exercises to promote respiratory and circulatory health.
CO4	Manage airway and ventilation needs effectively through administration of oxygen therapy, suctioning techniques, artificial airway maintenance, IV therapy including heparin administration, and support of patients with tracheostomy and mechanical ventilation.
CO5	Deliver specialized care to patients in cardiothoracic surgical and ICU settings, including preoperative and postoperative care, use of cardiac monitors, emergency drug infusion, ventilator support, and management of advanced procedures such as ECMO and heart transplantation.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Diagnostic & Assessment Procedures	<p>Procedures Observed: Echo cardiogram, Ultrasound, Monitoring JVP, CVP, CT SCAN, MRI, PET Scan, Angiography, Cardiac catheterisation, Angioplasty, Various Surgeries, Cardiac enzyme interpretation, Any other.</p> <p>Procedures Assisted: Arterial blood gas analysis, Thoracentesis, Lung biopsy, Computer assisted tomography (CAT Scan), M.R.I., Pulmonary angiography, Bronchoscopy, Pulmonary function test, ET tube insertion, Tracheostomy tube insertion, Cardiac catheterization, Angiogram, Defibrillation, Treadmill test, Echo cardiography, Doppler ultrasound, Cardiac surgery, Insertion of chest tube, CVP Monitoring, Measuring pulmonary artery pressure by Swan-Ganz Catheter, Cardiac Pacing.</p> <p>Procedures Performed: Preparation of assessment tool for CT client (Cardiac, thoracic and vascular). ECG – Recording, Reading, Identification of abnormalities, Identification of different – Arrhythmias Abnormal pulses, respirations, B.P. Variation Heart sounds Breath sounds, Pulse oxymetry, Introduction of intracath, Identification of different arrhythmias: Heart block, Premature ventricular contractions, Arterial fibrillation, Ventricular fibrillation, Ventricular tachycardia</p>	950 Hrs.	CO1
II	Cardiac Nursing Care	Nursing care of patient with: Myocardial infarction, Congestive heart failure, Heart block, Respiratory failure		CO2
III	Pulmonary & Vascular Conditions	Procedures Performed: Spirometer, Tuberculin skin test, Aerosol therapy, Nebulizer therapy, Water seal drainage, Chest physiotherapy including – Breathing Exercises Coughing Exercises, Percussion & Vibration, CPR, Obtaining leg measurements to detect early swelling in thrombophlebitis, Identification of Homans signs, Buerger – Allen exercises		CO3
IV	Airway & Ventilation Management	Procedures Performed: Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent Through ET and Tracheostomy tube, Manual resuscitation bag, Mechanical ventilation, Suctioning – Oropharyngeal, nasotracheal, Endotracheal Through tracheostomy tube, Artificial airway cuff maintenance, Bolus I.V. Injection, Life line, Maintenance of “Heplock”, Subcutaneous of Heparin		CO4
V	Cardiothoracic Surgery & ICU Care	<p>Cardiac rehabilitations, Cardiothoracic ICU are: Continuous cardiac monitor, Hydrodynamic monitoring, Emergency drug infusion therapy, Intubation and extubation procedure, Ventilation care, Cardiothoracic emergencies.</p> <p>Cardio-thoracic surgical management: Preparation for cardiac surgery, Pre, intra and post operative care, Heart lung machine, Open heart surgery, Closed heart surgery, Heart Transplantation, Care of tubes and drainages, Ventilator care, ECMO (Extracorporeal membrane therapy)</p>		CO5

Reference Books:
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.
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Suresh K. Sharma. <i>Potter and Perry's Fundamentals of Nursing</i> . 2nd South Asia ed. Elsevier India.
P Hariprasath, Textbook of Cardiovascular & Thoracic Nursing, Jaypee Brothers Medical Publishers
Venkatesan, Textbook of Cardiothoracic Nursing , Jaypee Brothers Medical Publishers
Betsy A. Finkelmeier , Cardiothoracic Surgical Nursing, Publisher Lippincott Williams and Wilkins
Elizabeth M. Perpetua DNP , Patricia Keegan, Cardiac Nursing, Publisher LWW
Reena George, Textbook of Cardiac Nursing, Jaypee Brothers Medical Publishers
Perpetua & Keegan, Cardiac Nursing: The Red Reference Book for Cardiac, Publisher Lippincott Williams & Wilkins USA
Richardson K. Cardiac Nursing Textbook, Publisher ED Tech Press Exclusive
Usha Rani Kandula, Leelavathy, Jeya Beulah D, Textbook of Cardiovascular & Thoracic Nursing, Pritam Publishers
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	-	2	1	1	2	3	2	1
CO2	3	3	2	-	2	2	1	2	3	3	2
CO3	3	3	2	-	2	1	1	1	3	2	1
CO4	3	3	2	-	2	2	1	1	3	3	2
CO5	3	3	3	2	2	3	2	2	3	3	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR614	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Critical Care Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To develop competencies in assessment, monitoring, and management of critically ill patients by performing emergency and life-saving procedures, assisting in diagnostic and surgical interventions, ensuring infection control, operating critical care equipment, and maintaining ICU documentation across diverse emergency settings.						

Course Outcomes	
CO1	Demonstrate comprehensive assessment and management of critically ill patients including emergency procedures (e.g., gastric lavage, GCS), invasive monitoring, drug administration, nutritional care, and maintenance of ICU records.
CO2	Assist in diagnostic and surgical procedures related to renal function and demonstrate infection control protocols including dialysis setup, specimen collection, hand hygiene, and sterilization techniques.
CO3	Perform effective monitoring and documentation of critically ill patients using tools such as GCS, ventilator monitoring, CVP, cranial pressure monitoring, and ICU flowcharts.
CO4	Assist and perform life-saving interventions including basic and advanced cardiac life support, ECG, arterial line management, and cardiopulmonary resuscitation in adult and pediatric emergencies.
CO5	Operate and maintain respiratory and emergency equipment; manage airway and oxygen therapy; and provide care during obstetric and burn-related emergencies in critical care settings.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Foundations of Critical Care Nursing Practice	Procedure Performed: Gastric lavage, Assessment of critically ill patients: Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities. Admission & discharge of critically ill patients. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration. Assessment and observation: History collection, Physical examination, Cardiovascular assessment, Neurological examination-GCS, Maintaining ICU flowchart, Fluid and electrolyte assessment Assessment of critically ill: Identification and assessment of risk factors, Cardiac assessment, Coronary artery wedge pressure, Detection of life -threatening measures	950 Hrs.	CO1
II	Renal System and Infection Control in ICU	Procedures Observed: CT Scan, MRI, EEG, Hemodialysis, Endoscopic Retrograde cholangio Pancreaticogram(ERCP), Heart/ Neuro/GI./ Renal Surgeries Procedures Assisted: Insertion of central line/cvp line, Connecting lines for dialysis Procedure Performed: Setting up dialysis machine and starting, monitoring and closing dialysis. Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions, Collection of specimen.		CO2
III	Management in Critical Care	Monitoring critically ill: Glasgow Coma Scale, Monitoring ventilator, CVP Monitoring, Cranial pressure monitoring, Maintain ICU flowchart		CO3
IV	Cardiovascular and Pediatric/Neonatal Emergencies in Critical Care	Procedures Assisted: Advanced life support system, Basic cardiac life support, Arterial line/arterial pressure monitoring/blood taking, Arterial blood gas, ECG recording, Blood transfusion, IV cannulation therapy, Arterial Catheterization, Chest tube insertion, Endotracheal intubations, Ventilation. Procedure Performed: Cardiopulmonary resuscitation, Basic cardiac life support, ECG. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.		CO4
V	Respiratory, Burn, and Obstetric Emergencies in Critical Care	Procedure Performed: Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine. Airway management: a. Application of oropharyngeal airway, b. Oxygen therapy, c. CPAP (Continuous Positive Airway pressure), d. Care of tracheostomy, e. Endotracheal extubation.		CO5

Reference Books:	
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.	
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Suresh K. Sharma. <i>Potter and Perry's Fundamentals of Nursing</i> . 2nd South Asia ed. Elsevier India.
Das S. <i>Textbook of Critical Care Nursing</i> . Jaypee Brothers Medical Publishers.
Malviya D, Nath SS. <i>Handbook of Critical Care</i> . Paras Medical Publisher.
Clement I. <i>Textbook on Critical Care Nursing</i> . EMMESS Publisher.
Kuruvilla J. <i>Essentials of Critical Care Nursing</i> . CBS Publishers and Distributors Pvt. Ltd.
Prakash S. <i>ICU Manual for Nurses</i> . Jaypee Brothers Medical Publishers.
Kandula UR, Prabhu M. <i>Comprehensive Text Book on Critical Care Nursing</i> . Bluerose Publishers Pvt. Ltd.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	1	1	2	1	2	3	2	1
CO2	2	3	3	1	1	2	2	1	3	2	1
CO3	3	3	3	1	1	2	1	2	3	2	1
CO4	3	3	3	2	1	2	2	2	3	3	1
CO5	3	3	3	2	1	3	2	2	3	3	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR615	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Oncology Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip nursing students with comprehensive knowledge and clinical competencies in oncology nursing, focusing on assessment, diagnosis, cancer therapies, system-specific care, nutritional and psychosocial management, and palliative support for individuals with cancer.						

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Course Outcomes	
CO1	Demonstrate understanding and perform assessment, diagnostic procedures, and preventive strategies in oncology nursing.
CO2	Assist and participate in administering cancer therapies and provide appropriate nursing interventions, including palliative and supportive care.
CO3	Apply nursing skills in managing system-specific malignancies through advanced clinical procedures and post-operative care.
CO4	Assess and manage the nutritional status of oncology patients, integrating knowledge of nutritional therapy with cancer care infrastructure.
CO5	Provide holistic care by managing cancer-related pain, responding to oncologic emergencies, and addressing psychosocial aspects including end-of-life care.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Introduction to Oncology Nursing, Diagnostic Procedures, and Preventive Strategies	Assessment and observation: History collection, Physical examination, Assessment of warning signs, Screening and tumor-node-metastasis (TNM) classification Procedures Observed: CT Scan, MRI, PET Scan(Positron Emission Tomography), Ultra sound, Mammography, Radio Nuclide Imaging, Bone Scan, Thyroid Function Test, Functional and Metabolic Imaging, Transportation of radioactive materials . Procedures Assisted: IV cannulation – Open method, Biopsy – tissue, FNAC – Fine Needle Aspiration Cytology and biopsy : . Image-guided biopsy, Core needle biopsy, Vacuum-assisted biopsy, Excisional biopsy, Shave biopsy, Punch biopsy, Endoscopic biopsy, Laparoscopic biopsy	950 Hrs.	CO1
II	Cancer Therapies, Nursing Interventions, and Palliative Approaches	Procedures Assisted: Chemotherapy, Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation, Interstitial implantation, Bio-therapy and Gene therapy, Teletherapy – Treatment planning, Bone marrow aspiration and biopsy, Pap smear, Tumor marker tests, Multigated acquisition (MUGA) scan, Barium enema, Fecal occult blood test, Bone scan, Colonoscopy, Hormone therapy, Immunotherapy, Adjuvant treatment, Bone marrow transplant. Procedure Performed: Screening for cancer, Assessment of pain, Digital rectal exam (DRE) Other procedures (As per the institutional protocol): Alternative therapies		CO2
III	System-Specific Malignancies: Nursing Care and Clinical Procedures	Procedures Assisted: Advance Cardiac life support, Endotracheal intubation, Defibrillation Ventilation, Tracheostomy , Thoracentesis, Paracentesis, Lumbar Puncture, Arterial Blood Gas, Nerve Block, Chest tube insertion, Intercostal drainage, CVP monitoring Procedure Performed: Care of Tracheostomy, Endotracheal intubation, Gastric gavage, Pap smear, IV cannulation, Care of surgical flaps, Care of ostomies, Blood transfusion and component therapy.		CO3
IV	Assessment and Management of Cancer Symptoms: Nutrition and Oncology Infrastructure	Procedure Performed: Assessment of Nutritional Status		CO4
V	Pain Management, Oncologic Emergencies, and Psychosocial Aspects in Cancer Care	Procedure Performed: Assessment of pain, Counseling, Practice standard safety measures, Care of dead body and mortuary formalities		CO5

Reference Books:	
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.	
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.	
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Mehta RS. <i>Oncology Nursing</i> . New Delhi: Jaypee Brothers Medical Publishers.	

Langhorne M, Fulton J, Otto SE. <i>Oncology Nursing</i> . St. Louis: Mosby.
Yarbro CH, Wujcik D, Gobel BH. <i>Oncology Nursing Review</i> . Sudbury: Jones and Bartlett Publishers, Inc.
Maloney-Newton S, Hickey M, Brant JM. <i>Mosby's Oncology Nursing Advisor: A Comprehensive Guide to Clinical Practice</i> . St. Louis: Mosby.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	-	2	2	1	1	3	2	2
CO2	3	3	3	-	1	2	2	1	3	3	1
CO3	3	3	3	-	1	2	1	1	3	2	1
CO4	2	2	1	-	2	2	2	2	2	1	1
CO5	3	3	2	1	1	2	3	2	3	2	1
1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation											



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR616	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Neuro Sciences Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	Enable students to apply neuroanatomical and neurophysiological knowledge in assessing, managing, and caring for patients with neurological conditions by utilizing standard diagnostic tools, performing therapeutic and emergency interventions, assisting in surgical and pharmacological procedures, and incorporating legal, ethical, and rehabilitative principles in neuroscience nursing.						

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Course Outcomes	
CO1	Apply knowledge of neuroanatomy and neurophysiology to assess neurological function using standard diagnostic procedures; demonstrate skills in neurological examination including Glasgow Coma Scale and assist in advanced diagnostic procedures to support clinical decision-making.
CO2	Demonstrate competence in assessing patients with neurological disorders and trauma using neurological scales and assessments, and participate in care procedures including bladder training, catheterization, and blood transfusion, while understanding epidemiological and nutritional aspects.
CO3	Manage and perform therapeutic interventions such as muscle strengthening exercises for patients with degenerative and infectious neurological conditions to promote functional recovery.
CO4	Assist in surgical interventions and administer pharmacological therapies, intravenous fluids, and emergency drugs while managing care for patients with neuromuscular and neoplastic neurological disorders.
CO5	Effectively manage patients in neurological emergencies using airway management techniques, life-support systems, and rehabilitation strategies while adhering to legal and ethical principles in neuroscience nursing.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Neurological Assessment and Diagnostic Procedures	Assessment and observation: History collection, Physical examination Procedures Observed: CT scan, MRI, PET, EEG, EMG, Sleep pattern studies/Therapy, Radiographical studies, Neuro surgeries, Nerve conduction studies, Ultrasound studies, Cerebral angiography, Myelography, Tensilon test, Brain dialysis, Any other Procedures Assisted: Biopsies – muscle, nerve and Brain, ECG Recording, Cerebral angiography, Myelography Procedures Performed: Neurological assessment -Glasgow coma scale	950 Hrs.	CO1
II	Neurological Disorders: Epidemiology, Trauma, Cerebrovascular Conditions and Nutritional Management	Assessment and observation: Glasgow Coma Scale, Cerebral functioning, Cranial nerve assessment, Reflex assessment, Motor system assessment, Sensory system assessment, Common neurological symptoms Procedures Assisted: Advanced Cardiac life support, Lumbar Puncture, Arterial Blood Gas, Blood transfusion, IV cannulation – open method Procedures Performed: Care of patients with incontinence, bladder training Catheterization, Care of patients on traction related to the neurological conditions, Blood Administration		CO2
III	Degenerative, Demyelinating, Infectious and Paroxysmal Neurological Disorders	Procedures Performed: Muscle strengthening exercises		CO3
IV	Neuro developmental, Neuromuscular, Neoplastic Disorders and Pharmacological Interventions	Procedures Assisted: Neuro surgeries Procedures Performed: Gastric Lavage, IV Cannulation, Administration of emergency IV Drugs, fluid		CO4
V	Neurological Emergencies, Rehabilitation, and Legal-Ethical Aspects of Neuroscience Nursing	Procedures Assisted: Endotracheal intubation, Ventilation, Tracheostomy, ICP monitoring, Gama Knife Procedures Performed: Airway management, Application of Oro Pharyngeal Airway, Care of Tracheostomy, Conduct Endotracheal Intubation, Use of AMBU bag, artificial respirators, Setting of Ventilators and Care of patients on ventilators, Cardio Pulmonary Resuscitation - Defibrillation, Guidance and counseling, Monitoring – management and care of monitors.		CO5

Reference Books:	
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.	
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.	
Jacob Annamma. <i>Clinical Nursing Procedures: The Art Of Nursing Practice</i> . Jaypee Brothers Medical Publishers.	
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Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR617	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Nephro-Urology Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip students with advanced theoretical and clinical competencies in nephro-urological nursing, including assessment, diagnostic interpretation, procedural assistance, critical care, dialysis management, and quality assurance for holistic patient care across all age groups.						

Course Outcomes	
CO1	Apply advanced knowledge and skills in conducting nephro-urological assessments, interpreting diagnostic imaging and laboratory results, and assisting with urological endoscopic procedures to formulate appropriate nursing care plans.
CO2	Demonstrate clinical competence in basic nephro-urological nursing procedures including catheterization and implement nursing interventions for glomerular disorders.
CO3	Integrate theoretical and practical knowledge in managing patients with pulmonary and vascular urinary conditions, and perform nursing procedures such as bladder irrigation, bladder training, ostomy care, and vascular access management.
CO4	Execute pharmacological therapies, assist in surgical and dialysis procedures, and provide comprehensive preoperative and postoperative urological care, including renal rehabilitation and counselling.
CO5	Perform critical care procedures in nephro-urology, ensure infection control, operate dialysis machines, and implement quality assurance measures in nephrological and pediatric urological nursing care.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Assessment, Diagnostic Procedures, and Imaging in Nephro-Urology	Assessment and observation: History collection, Urological examination, Renal function test, Specimen collection and testing, Common urological symptoms Procedures Observed : CT Scan, MRI, Radiographic studies, Urodynamics Procedures Assisted: Biopsy- Renal biopsy, Urethral biopsy, Prostate gland, Endoscopies- Bladder, urethral - Rigid cystoscopy, Flexible fiberoptic cystourethroscopy, Urethroscopy and nephroscopy Procedure Performed: Health assessment, Insertion of urethral and suprapubic catheters, Urine analysis, Nutritional needs, diet therapy & patient education, Counselling	950 Hrs.	CO1
II	Urinary System Anatomy, Glomerular Disorders, and Basic Nursing Interventions	Procedure Performed: Catheterisation		CO2
III	Nursing Management of Pulmonary and Vascular Urinary Conditions	Procedure Performed: Bladder irrigation, Care of ostomies, Care of urinary drainage, Bladder training, Care of vascular access Procedures Observed : Urodynamic studies: Uroflometry, Cystometrography, Urinary pressure flow, Urethral pressure profile		CO3
IV	Pharmacology, Dialysis Techniques, and Surgical Interventions in Urological Nursing	Procedures Observed : Hemodialysis, Renal Surgeries, Surgical procedures- Urological surgeries, Nephrological surgeries, Genitourinary surgeries, Transurethral resection of the prostate (TURP), Kidney transplantation Surgical care: Preoperative-care, Intraoperative, Postoperative care, Care of surgical drains, Counselling, Renal rehabilitation Procedures Assisted: Blood transfusion, I V cannulation therapy, Arterial Catheterization, Insertion of central line/cvp line, Connecting lines for dialysis, Peritoneal dialysis Procedure Performed: Peritoneal dialysis, Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration.		CO4
V	Nephrological Rehabilitation, Pediatric Urology, Critical Care, and Quality Assurance	Procedure Performed: Setting up dialysis machine and starting, monitoring and closing dialysis, Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions, Collection of specimen.		CO5

Reference Books:	
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.	
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.	
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Vijay Kumar Gauttam. <i>Procedures Manual Book Of Medical Surgical Nursing</i> . Kumar Publishing House.	
Shincy George. <i>A Comprehensive Procedure Manual of Medical Surgical Nursing</i> . Emmess Medical Publishers.	
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Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR618	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Orthopedic Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip nursing students with the knowledge and skills to assist in orthopedic and trauma care, perform related procedures, support surgical and rehabilitative interventions, conduct assessments, and deliver quality nursing care to patients with musculoskeletal and neuromuscular conditions across all age groups, ensuring patient safety and holistic recovery.						

Course Outcomes	
CO1	Demonstrate proficiency in assisting and performing orthopedic procedures including various types of tractions, interpretation of X-rays, application/removal of splints, casts, braces, plaster of Paris, and bandages, and provide operative and postoperative care in trauma and emergency orthopedic conditions, including Advanced Life Support.
CO2	Assist in various orthopedic and reconstructive surgical procedures, manage implants and prosthetics, and implement physiotherapeutic interventions including cold/heat therapy, hydrotherapy, TENS, and mobility aids to promote recovery and prevent deformities.
CO3	Conduct comprehensive assessment and diagnostic support in orthopedic patients, especially the geriatric population, and provide drug administration, rehabilitation counseling, and family education to promote physical recovery and quality of life.
CO4	Deliver effective nursing care for patients with neuromuscular, infectious, and degenerative orthopedic conditions by employing infection control techniques and ensuring adherence to quality assurance and patient safety protocols.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Orthopedic Devices, Trauma Management, and Advanced Life Support	Procedures Assisted: Various types of tractions- Arthrocentesis, Skin traction, Skeletal traction, Cervical traction, Lumber traction, Other traction: Gallows traction, Bucks' traction, Pelvic traction, Head holder traction, Balanced suspension traction, Advance Life Support Procedures Performed: Interpretation of X ray films, Application and removal of splints, casts, and braces, Care of tractions – skin and skeletal traction, pin site care. Maintenance of body alignment, Application and removal of plaster caste, Application of bandages and dressing, Application of plaster of Paris: Slab, Casts, Functional caste braces. Splints: Thomas splints, Bohler Braun (BB) splints, Pneumatic splints. Orthopaedic surgical nursing care: Operative care, Intraoperative care, Postoperative care, Surgical drains, Surgical dressing	950 Hrs.	CO1
II	Orthopedic Surgeries, Reconstructive Procedures, and Physiotherapeutic Interventions	Procedures Assisted: Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting. Implants, Screws- Cortical screws, Cancellous screws, Malleolar screws. Plates: Ordinary plates, AO Plates, Dynamic compression plates, Special plates, Application and removal of prosthesis. Orthopedic surgeries: Fracture fixation, Amputation, Reconstructive surgeries, Reimplantation Procedures Performed: Cold therapy, Heat therapy, Hydrotherapy, Therapeutic exercises, Use of TENS (Transcutaneous electrical nerve stimulation), Techniques of transportation, Crutch walking, walkers, wheel chair, Use of devices for activities of daily living and prevention of deformities, Special skin/ part preparations for orthopedic surgeries, Surgical dressings – Debridement, Bladder and bowel training.		CO2
III	Assessment, Diagnostic Techniques, and Rehabilitation in Geriatric Orthopedic Conditions	Assessment and observation: History collection, Orthopaedic examination, Examination of muscles, Posture, gait and reflexes, Anthropometric measurements, Common orthopaedic symptoms Procedures Assisted: Blood Transfusion, IV cannulation and therapy, Injection – Intra articular, intra osseous. Procedures Observed: X Ray, Ultrasound, MRI, C T Scan/bone scan, Arthroscopy, Electrothermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy), Fluroscopy, Electromyography, Myelography, Discography, Gallium scan, Indium imaging, Bone biopsy, Bone mineral content, Bone densitometry, Nuclear studies, Others Procedures Performed: Administration of drugs: IV injection, IV cannulation, and Blood transfusion. Orthopedic supportive care: Physical exercises and consultation, Prostatic application, Walking device: canes, creches and walker, Teaching: patient and family, Counselling: patient and family, Rehabilitation process, Maintain rehabilitating activities		CO3
IV	Quality Assurance and Nursing Care in Neuro-Muscular, Infectious, and Degenerative Orthopedic Conditions	Procedures Performed: Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation. Care of client with: Bone fracture, Bone infection, Bone tumor		CO4

Reference Books:
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.

Jacob Annamma. <i>Clinical Nursing Procedures: The Art Of Nursing Practice</i> . Jaypee Brothers Medical Publishers.
Vijay Kumar Gauttam. <i>Procedures Manual Book Of Medical Surgical Nursing</i> . Kumar Publishing House.
Shincy George. <i>A Comprehensive Procedure Manual of Medical Surgical Nursing</i> . Emmess Medical Publishers.
Omayal Achi. <i>Manual Of Nursing Procedures And Practice</i> . Wolters Kluwer.
Sandhya Ghai. <i>Clinical Nursing Procedures</i> . 3rd ed. PGIMER National Institute Of Nursing Education: CBS Nursing.
Suresh K. Sharma. <i>Potter and Perry's Fundamentals of Nursing</i> . 2nd South Asia ed. Elsevier India.
Murphy C. <i>Orthopaedic Nursing Nursing Textbook Series</i> . ED Tech Press Exclusive.
Clarke S. <i>Orthopaedic and Trauma Nursing - An Evidence-based Approach to Musculoskeletal Care</i> . John Wiley & Sons Inc.
Rebecca Jester, Julie Santy Tomlinson, Jean Rogers. <i>Oxford Handbook of Trauma and Orthopaedic Nursing</i> . OUP Oxford.
Bailey C. <i>Textbook Of Orthopedic Nursing</i> . Ringer Med Press.
Avery K. <i>Orthopaedics for Nurses</i> . Medicare Health Science.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	3	-	2	2	2	1	3	2	1
CO2	-	-	-	-	-	-	-	-	-	-	-
CO3	2	3	3	1	2	2	2	1	3	2	1
CO4	3	3	2	1	2	3	2	2	3	3	2
CO5	3	3	2	1	2	3	2	2	3	3	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR619	Title of the Course	Clinical Speciality – II Medical Surgical Nursing Sub Speciality – Gastro Enterology Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip students with advanced knowledge and clinical competencies in assessing, managing, and providing comprehensive nursing care for patients with gastrointestinal and hepatobiliary disorders, including surgical, emergency, pharmacological, and nutritional interventions, while fostering critical thinking, patient education, and professional collaboration.						

Course Outcomes	
CO1	Demonstrate comprehensive knowledge and skill in assisting, performing, and interpreting diagnostic and therapeutic procedures related to gastrointestinal and hepatobiliary disorders, including patient assessment, monitoring, and laboratory investigations.
CO2	Apply critical thinking and decision-making skills in the surgical management of gastrointestinal disorders and demonstrate effective participation in unit management and coordination of surgical nursing care.
CO3	Manage gastrointestinal and hepatobiliary emergencies by providing competent nursing interventions in preoperative, intraoperative, and postoperative phases, including handling surgical drains and emergency procedures.
CO4	Provide nursing care for clients with congenital gastrointestinal anomalies and administer pharmacological interventions safely, considering the pharmacokinetics and therapeutic responses.
CO5	Develop and implement nutritional management plans and patient/family education programs in gastroenterology nursing, including staff in-service training and counseling.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Assessment and Diagnostic Procedures in Gastrointestinal and Hepatobiliary Disorders	Procedures Assisted: Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic), Sigmoidoscopy, Colonoscopy, Polypectomy, Endoscopic retrograde cholangio pancreatography (ERCP), Liver biopsy, Percutaneous catheter drainage (PCD) of Pseudocyst pancreas, Abdominal paracentesis, Percutaneous aspiration of liver abscess, GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test, Peritoneal fluid analysis, Barium meal/swallow, Barium enema, Small bowel endoscopy, Capsule endoscopy, Virtual endoscope, Esophageal manometry, Meckel's diverticulum scan Procedures Performed: History and Physical assessment, Monitoring vital parameters, Liver function test, Bowel irrigation, Colostomy, care and imigation, Nasogastric insertion, Assessment and observation: History collection, GI examination, Liver function test, Assessment of gallbladder, Assessment of liver and pancreas, Laboratory and diagnostic tests, Common symptoms Procedures to be observed: Abdominal X-ray, Abdominal CT scan, Abdominal MRI, Abdominal ultrasound, Abdominal angiography, Esophagogastroduodenoscopy, Cholecystography, Gastric analysis, Cholangiography (Intravenous, percutaneous, T-tube), Cholangiopancreatography	950 Hrs.	CO1
II	Gastrointestinal Disorders: Surgical Management and Unit Administration	Gastrointestinal tract (GIT) surgeries: Endoscopic surgeries, Laparoscopic surgeries, Laparotomy, Liver surgeries, Spleen surgeries, Pancreatic surgeries, Transplantation surgeries.		CO2
III	Hepatobiliary, Pancreatic, and Gastrointestinal Emergencies: Surgical and Nursing Interventions	Procedures Performed: RT intubation / extubation / aspiration/suction, Gastric lavage and gavage, Bowel wash Gastrointestinal surgical nursing care: Preoperative care, Intraoperative care, Postoperative care, Surgical drains, Surgical dressing, Counselling		CO3
IV	Congenital Gastrointestinal Anomalies and Pharmacokinetics in GI Care	Procedures Performed: Therapeutic Diets, Ostomy feeding, Stoma care		CO4
V	Nutrition in Gastrointestinal Disorders and Education for Gastroenterology Nursing Care	Procedures Performed: Plan of inservice education programme for nursing staff and Class-IV employees, Counseling.		CO5

Reference Books:
Mrs. Girija Bhaskaran, Mrs. S. Semmalar, Mrs. R. Ramani. <i>Text Book of Medical Surgical Nursing Procedures</i> . Rigi Publication.
Suresh K. Sharma. <i>Lippincott Manual of Medical Surgical Nursing</i> . South Asian ed. Wolters Kluwer India Pvt. Ltd.



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR620	Title of the Course	Clinical Speciality – II Obstetric & Gynaecological Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	Equip students with advanced knowledge and clinical skills in maternal and neonatal nursing, enabling comprehensive assessment, evidence-based management, and specialized care for normal and high-risk conditions across antenatal, intranatal, postnatal, neonatal, and gynecological settings, while fostering leadership, counseling, and quality improvement in obstetric and gynecology care.						

Course Outcomes	
CO1	Apply comprehensive assessment skills and clinical judgment in the antenatal care of women, integrating history taking, physical and pelvic examinations, fetal well-being assessments, risk identification, and use of obstetric diagnostic tools. Implement health education and nursing process for normal and high-risk antenatal women.
CO2	Demonstrate proficiency in assisting and performing specialized procedures in high-risk pregnancies and abnormal labour, including operative deliveries and obstetric emergencies. Apply partograph, conduct deliveries, manage complications, and provide evidence-based care through nursing process application.
CO3	Provide advanced nursing care to high-risk newborns through comprehensive assessment, monitoring, and use of specialized equipment and techniques. Promote breastfeeding, ensure safe feeding practices, and implement neonatal nursing interventions including resuscitation and thermoregulation.
CO4	Deliver effective postnatal care including assessment, management of complications, postnatal counseling, and application of the nursing process for high-risk postnatal mothers. Address issues related to HIV/AIDS in maternal care with sensitivity and competence.
CO5	Execute gynecological nursing procedures and manage obstetric and gynecology units, including drug administration, patient counseling, operation theatre preparation, and unit layout planning. Develop skills in teaching, referral, networking, and establishing quality standards in obstetrical and gynecological care units.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Assessment, Management, and Education of Women During Pregnancy	Procedures Performed: History taking, Physical Examination-General, Antenatal assessment. – 20, Pelvic examination, Assessment of risk status, Assessment of Intra uterine foetal well-being, kick chart and foetal movement chart, Doppler assessment, Non Stress Test, Contraction stress test (Oxytocin challenge test), Universal precautions- Disposal of biomedical waste. Conduct In- Service education, Clinical teaching programme, Applications of nursing process- High risk antenatal-3, High risk natal-3	950 Hrs.	CO1
II	Management of High-Risk Pregnancies, Abnormal Labour, and Obstetric Emergencies	Procedure Observed: Assisted Reproductive Technology procedures, Ultra sonography, Specific laboratory tests, Amniocentesis, Cervical & vaginal cytology, Fetoscopy, Hysteroscopy, MRI, Surgical diathermy, Cryosurgery. Procedures Assisted: Operative delivery, Abnormal deliveries-Forceps application, Ventouse, Breech, Exchange blood transfusion, Culdoscopy, Cystoscopy, Tuboscopy, Laparoscopy, Endometrial Biopsy, Tubal patent test, Chemotherapy, Radiation therapy, Medical Termination of Pregnancy, Dilatation and Curettage. Procedures Performed: Per Vaginal examination and interpretation (early pregnancy, labour, post partum), Utilization of Partograph, Medical & Surgical induction (Artificial rupture of membranes), Vacuum extraction, Conduct of delivery, Prescription and administration of fluids and electrolytes through intravenous route, Application of outlet forceps, delivery of breach – Burns Marshall, Loveset manoeuvre, Repair of tears and Episiotomy suturing, Vacuum extraction, controlled cord traction, Manual removal of placenta, placental examination, Manual vacuum aspiration, Reposition of inversion of uterus, Laboratory tests: Blood- Hb, Sugar, Urine-albumin, sugar		CO2
III	Care and Management of High-Risk Newborns and Neonatal Unit Administration	Procedures Performed: Assessment –New born assessment; physical and neurological, APGAR score, high-risk newborn, Monitoring neonates; Clinically and With monitors, Capillary refill time, Assessment of jaundice, danger signs. Anthropometric measurement, Neonatal resuscitation, Gastric Lavage, Care of newborn in multi channel monitor and ventilator. Care of newborn in radiant warmer and incubator, Kangaroo mother care. Assisting mother with exclusive Breast-feeding. Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition , Applications of nursing process- High risk Newborn		CO3
IV	Management of Postpartum Complications and HIV/AIDS in Obstetric Care	Procedures Performed: Postnatal assessment.- 20, Management of breast engorgement, Thrombophlebitis (white leg), Postnatal counseling, Breast care, breast exam, and drainage breast abscess, Postnatal exercise. , Applications of nursing process- High risk postnatal-3		CO4
V	Comprehensive Gynecological Nursing Procedures and Unit Management	Procedures Performed: Assesment, calculation and administration of fluids and medications: Oral, I.D., I.M., I.V.- Securing IV line, infusion pump, Administration of drug per rectum, Capillary blood sample collection, Oxygen therapy, Phototherapy, Chest physiotherapy, counseling – Parental, bereavment, family planning, infertility etc, Setting of operation theatre, Trolley and table set up for Obstetrical & gynaecological operations, Pap smear, Vaginal smear,		CO5

		Insertion of pessaries, Insertion of IUD and removal, Teaching skills, Communication skills, Prepare referral slips, Pre transport stabilization, Networking with other stake holders , Setting up of Obstetrics & Gynecology unit (model floor plan): Labour unit, High risk labour unit, NICU, Antenatal Clinic, Postnatal Clinic, gynecological unit, Develop standards for obstetric & gynecological unit.		
Reference Books:				
Shweta Naik . <i>Procedure Manual Series Obstetric and Gynecological Nursing</i> . CBS Publishers.				
Dharitri Swain , <i>Obstetrics Nursing Procedure Manual</i> . Jaypee Brothers Medical Publishers (P) Ltd.				
Kiran Agarwal . <i>Instruments and Procedures in Obstetrics and Gynecology</i> . Jaypee Brothers Medical Publishers (P) Ltd.				
Richa Saxena. <i>A Practical Guide to Obstetrics & Gynecology</i> . Jaypee Brothers Medical Publishers (P) Ltd.				
Annamma Jacob. <i>Manual for Midwifery and Gynecological Nursing</i> . Jaypee Brothers Medical Publishers (P) Ltd.				
Kelly D. Rosenberger, Nancy Cibulka, Mary Lee Barron. <i>Guidelines for Nurse Practitioners in Ambulatory Obstetric Settings</i> . Springer Publishers.				
e-Learning Source:				

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	-	2	2	1	2	3	2	1
CO2	3	3	3	1	2	2	2	2	3	3	1
CO3	3	3	3	-	2	2	1	2	3	2	2
CO4	3	3	2	1	2	2	2	2	3	3	1
CO5	2	3	3	3	2	2	2	3	3	3	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR621	Title of the Course	Clinical Speciality – II Pediatric (Child Health) Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip students with advanced competencies in assessing, planning, and delivering comprehensive nursing care to neonates and children with high-risk conditions, integrating clinical judgment, pediatric procedures, emergency management, surgical and intensive care, pharmacologic interventions, and community-based pediatric health services.						

Course Outcomes	
CO1	Apply the nursing process to plan and provide comprehensive care to critically ill neonates and children with high-risk conditions and emergencies, integrating clinical judgment, technical skills, and health education.
CO2	Perform systematic assessment and provide evidence-based nursing interventions for common pediatric medical conditions, utilizing diagnostic procedures, thermoregulation techniques, and neonatal assessment tools.
CO3	Assist in the management of pediatric surgical conditions and interpret diagnostic findings for prompt and effective nursing care, including invasive and non-invasive monitoring.
CO4	Demonstrate skills in managing pediatric intensive care situations, including neonatal resuscitation, and address developmental challenges with appropriate nursing interventions.
CO5	Manage drug administration, infection control, and equipment maintenance in neonatal units, and engage in pediatric-related community field visits to understand diverse child care settings and services.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Comprehensive Care and Nursing Management of High-Risk Neonates and Pediatric Emergencies	Nursing Process Application: Medical Conditions (4), Medical Conditions (4), Critically ill (2), High Risk New Born (3), Paediatric Emergencies (2), Case Study (5), Clinical Presentation (5), Health Education (5). Procedures Assisted: Arterial catheterization, Chest tube insertion, Endotracheal intubation, Ventilation, Insertion of long line Procedures Performed: Setting of Ventilators, Phototherapy	950 Hrs.	CO1
II	Assessment, Pathophysiology, and Nursing Interventions in Pediatric Medical Conditions	Procedures Observed: Echo cardiogram, Ultrasound head, ROP screening (Retinopathy of prematurity) Procedures Performed: Airway Management- Application of Oro Pharyngeal Airway, Oxygen therapy, CPAP (Continuous Positive Airway Pressure), Care of Tracheostomy, Endotracheal Intubation. Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, Newborn examination, detection of life threatening congenital abnormalities. Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermoregulation & control		CO2
III	Management of Pediatric Surgical Disorders and Interpretation of Diagnostic Procedures	Procedures Assisted: Lumbar Puncture, Arterial Blood Gas, ECG Recording, Umbilical catheterization – arterial and venous, Arterial B P monitoring, Blood transfusion- exchange transfusion full and partial, Assist in surgery Procedures Performed: Monitoring of Neonates – clinically & with monitors, CRT(Capillary Refill Time), assessment of jaundice, ECG, Gastric Lavage		CO3
IV	Pediatric Intensive Care, Developmental Challenges, and Nursing Implications	Procedures Assisted: Advanced neonatal life support, IV cannulation & therapy Procedures Performed: Neonatal Resuscitation		CO4
V	Pharmacological Management, Pediatric Unit Administration, and Community Exposure	Procedures Performed: Admission & discharge of neonates, Administration of Drugs: I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/ insulin syringes, Monitoring fluid therapy, Blood administration. Procedures for prevention of infections: Hand washing, disinfections & sterilization, surveillance, fumigation, Collection of specimens. Setting, Use & maintenance of basic equipment: Ventilator, O2 analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow. Field Visit: Child care center, Anganwadi, play school, Special schools for challenged children, Juvenile court, UNICEF, Orphanage, Creche, SOS village		CO5

Reference Books:

Datta P. *Manual of Pediatric Nursing Procedures*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Kalia R. *Pediatric Nursing Procedures*. New Delhi: Jaypee Brother Medical Publishers.

Kumar Y. *Comprehensive Pediatric Nursing Procedures*. Chennai: Notion Press.

Padmaja A. <i>Pediatric Nursing Procedure Manual</i> . New Delhi: Jaypee Brothers Medical Publishers.
Kavith K. <i>A Comprehensive Manual of Pediatric Nursing Procedures</i> . New Delhi: Jaypee Brother Medical Publishers.
Barmese S, Kurien R, Mathew M. <i>Procedure & Practices in Child Health Nursing</i> . Bangalore: Medico Refresher Publications.
e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	1	2	1	2	2	3	2	1
CO2	3	2	3	-	2	1	1	2	2	1	1
CO3	3	2	3	1	2	1	1	1	2	2	1
CO4	3	3	3	1	2	2	2	2	3	2	1
CO5	2	3	3	1	2	3	3	2	3	3	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR622	Title of the Course	Clinical Speciality – II Psychiatric (Mental Health) Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	To equip students with foundational knowledge, critical thinking, and clinical skills for comprehensive mental health nursing practice, including psychiatric assessment, therapeutic interventions, community-based care, and psychological evaluation across various mental health conditions.						

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Course Outcomes	
CO1	Demonstrate foundational knowledge and skills in performing and assisting with various psychiatric therapies and assessments, including mental status examination, group therapy, and rehabilitation practices.
CO2	Apply critical thinking and clinical competence in the management of psychotic, mood, and substance use disorders using therapies, diagnostic procedures, and pharmacological interventions.
CO3	Analyze the psychological and social dimensions of physical health conditions through observation and interpretation of psychological assessments such as personality tests.
CO4	Demonstrate competency in applying mental health nursing principles in community settings through effective interviewing, counseling, psychoeducation, and survey methods for mental health needs assessment.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Foundations and Therapies in Psychiatric Nursing	Procedures Observed: Family therapy, Behavioral therapy. Procedures Performed: Mental status examination, Rehabilitation therapy, Group therapy, Milieu therapy, Social/Recreational therapy, Occupational therapy.	950 Hrs.	CO1
II	Management of Substance Use, Psychotic and Mood Disorders	Procedures Observed: Assisted- CT, MRI, Psychometric tests Procedures Performed: Participating in various therapies – Physical; ECT, Administration of Oral, IM, IV psychotropic drugs.		CO2
III	Psychological and Social Aspects of Medical Conditions	Procedures Observed: Personality tests		CO3
IV	Community Mental Health and Administrative Practices in Psychiatry	Procedures Performed: Interviewing skills, Counseling skills, Communication skills, Psychoeducation, Interpersonal relationship skills, Community Survey for identifying mental health problems		CO4

Reference Books:

R Sreevani. *A Guide To Mental Health & Psychiatric Nursing*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

Prakash P. *Textbook of Mental Health and Psychiatric Nursing*. New Delhi: CBS Publishers.

Sandeep Arya, Bharat Pareek. *Textbook of Mental Health & Psychiatric Nursing*. Jaipur: Vision Health Sciences Publisher.

Bimla Kapoor. *Textbook of Psychiatric Nursing*. Ludhiana: Kumar Publishing House.

KP Neeraja. *Essential of Mental Health and Psychiatric Nursing*. New Delhi: Jaypee Brothers Medical Publishers.

Sheila L. Videbevk. *Psychiatric Mental Health Nursing*. Philadelphia: Wolters Kluwer Publishers.

e-Learning Source:

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	3	2	1	1	1	2	2	3	2	1
CO2	3	3	3	1	2	2	2	2	3	2	2
CO4	2	2	2	1	2	2	2	2	2	2	2
CO5	3	3	2	2	2	3	3	2	3	3	2



Integral University, Lucknow

Effective from Session: 2024-2025							
Course Code	NR623	Title of the Course	Clinical Speciality – II Community Health Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	-	-	6	6
Pre-Requisite	Successful completion of First Year course as per INC guidelines.	Co-requisite	80 % Theory & 100% Clinical Attendance, Completion of ongoing Research projects, Teaching Practice, Requirements Submission				
Course Objectives	Equip students with the knowledge and skills to assess, plan, implement, and evaluate comprehensive community health services, including epidemiology, national programs, geriatric and mental health care, school and occupational health, and administrative roles in diverse community settings.						

Course Outcomes	
CO1	Apply principles of epidemiology to assess health status of geriatric populations and analyze health trends for planning community-based elderly care.
CO2	Demonstrate skills in the implementation and monitoring of National Health and Family Welfare Programmes through observation, assistance, and performance of screening and treatment procedures.
CO3	Integrate family-centered care, school and international health services, and apply nursing processes for comprehensive health assessment, health education, and primary treatment in community settings.
CO4	Develop and implement administrative, health education, and rehabilitative plans at various levels of community health service delivery, including staff management, referral services, and collaboration with NGOs.
CO5	Describe the principles and practices of community mental health and occupational health services, and identify the role of a nurse in industrial and de-addiction settings.

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
I	Epidemiological Studies and Geriatric Health Observations	Observed: Home of old age	950 Hrs.	CO1
II	Implementation of National Health and Family Welfare Programmes	Observed: Field Visits- ESI unit, District TB centre, AIDS control society, Filariasis clinic, RCH clinic, STD clinic, Leprosy clinic, Cancer centers, Palliative care Assisted: Laparoscopic sterilization, Vasectomy, All clinics related to RCH- Antenatal, Postnatal, Well baby/ under five, Immunization, Family welfare, Monitoring of national health and family welfare programmes. Performed: Screening for leprosy, TB and non-communicable disease, Presumptive and radical treatment for Malaria.		CO2
III	School and International Health Services with Family Health Care Practice	Observed: Field Visits- School health services, Child guidance clinic, Institute for Mentally Challenged Performed: School health assessment, Health survey, Prepare Comprehensive care of Family by using Nursing Process & Theories (5), Health assessment, Develop different Proformas for health assessment: ANC, Infant, Under 5 years, School Health, Geriatric, Nutritional status, Drug administration as per the protocols, Treatment of minor ailments, Investigating outbreak of epidemic, Counselling, Report writing, Administer Drugs – Oral, IM, IV-any other		CO3
IV	Health Education, Administration, and Rehabilitation in Community Settings	Observed: Field Visits- DPHNO Office, CHC/FRU, Child Guidance clinic, Municipality/ Corporation office Prepare Orientation Programme for 1- ANM/LHV/CHN/AWW/VHG, Prepare floor plan of PHC/CHC/PHU, Prepare standards of different health care and protocols for minor ailments at PHC level, Prepare Job Responsibilities of different categories in Community health. Compute staff requirement for different levels, Conduct various clinics, Provide presumptive and radical Treatment - (5), Referral services – 10, Prepare the Project Proposal, Participate in Material management, Indenting, Condemning, Inventory maintenance, Prepare supervisory plan for different categories, Organize In-service Education programme for HW/LHV/PHN, Performed: Referrals, Writing a project proposal, Material management- requisition for indent, condemnation, inventory maintenance, Training and Supervision of various categories of personnel, Liaison with NGO's, Prepare Organization chart of National, State & Local Health Administration		CO4
V	Community Mental Health and Occupational Health Service	Observed: Mental health units, De-addiction centres, Industry, Selected industrial health centers, Institute/Unit for mentally challenged.		CO5

Reference Books:

Baljit Kaur . *Community Health Nursing Procedures*. Jaypee Brothers Medical Publishers.

Kamalam S. *Essentials in Community Health Nursing Practice*. Jaypee Brothers Medical Publishers.

Thressiamma PM. *Procedures & Theories of Community Health Nursing*. Jaypee Brothers Medical Publishers.

Omayal Achi College of Nursing. *Manual of Nursing Procedures and Practice*. Wolters Kluwer Publishers.

Jacob A. *Clinical Nursing Procedures – The Art of Nursing Practice*. Jaypee Brothers Medical Publishers.

Ashawan S, Ashawan P, Sagar R. *A Comprehensive Procedure Manual of Community Health Nursing*. Shashwat Publication.

Course Articulation Matrix: (Mapping of COs with POs and PSOs)											
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO											
CO1	3	2	2	-	2	2	2	1	3	2	2
CO2	2	3	3	2	2	3	2	1	3	3	2
CO3	3	3	3	2	2	2	3	2	3	3	2
CO4	2	2	2	3	2	3	3	2	3	3	1
CO5	2	2	2	1	1	2	2	1	2	2	1

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation