



# CHOITHRAM COLLEGE OF NURSING

Accredited by NAAC, Affiliated to INC, MPNRC Bhopal, MPMSU Jabalpur  
Choithram Hospital & Research Centre Manik Bagh Road, Indore 452014 (M.P.)



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*2.6.1 The Institution has stated the learning outcomes (generic and programme-specific) and graduate attributes as per the provisions of the Regulatory bodies and the University; which are communicated to the students and teachers through the website and other documents*

## COURSE OUTCOMES INDEX

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**Course outcome** refers to the specific knowledge, skills, attitudes, and competencies that students are expected to achieve by the end of a particular course. Course outcomes are designed to guide both teaching and learning activities, and they help in assessing whether the course objectives have been met.

## Key Elements of Course Outcomes in Nursing

### 1. Knowledge Acquisition:

- **Understanding Concepts:** Students should gain a clear understanding of theoretical concepts relevant to the course.
- **Application of Knowledge:** Ability to apply theoretical knowledge to practical situations in nursing practice.

### 2. Skill Development:

- **Clinical Skills:** Mastery of specific clinical skills, such as administering medications, performing procedures, or conducting patient assessments.
- **Technical Skills:** Proficiency in using medical equipment and technology relevant to the nursing field.

### 3. Attitudinal Growth:

- **Professionalism:** Demonstrating professional behavior, including ethical decision-making and effective communication.
- **Empathy and Compassion:** Developing an empathetic approach to patient care and a compassionate attitude towards patients and their families.

### 4. Critical Thinking and Problem-Solving:

- **Clinical Judgment:** Ability to make informed decisions based on patient assessments and clinical evidence.
- **Problem-Solving:** Applying critical thinking skills to address complex patient care scenarios and find effective solutions.

### 5. Communication Skills:

- **Patient Interaction:** Effective communication with patients and their families, including the ability to provide clear instructions and support.
- **Inter professional Collaboration:** Working effectively with other healthcare professionals to deliver coordinated care.

### 6. Health Promotion and Disease Prevention:

- **Educational Role:** Ability to educate patients and communities on health promotion and disease prevention strategies.
- **Preventive Care Practices:** Implementing measures to promote health and prevent illness.





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## COURSE OUTCOMES

### B. Sc. (N) First Year

#### English

CO1- Develop clear and effective written communication skills for medical documentation and patient interactions.

CO2- Enhance spoken English proficiency to facilitate accurate and empathetic patient communication.

CO3- Gain proficiency in medical terminology and its application in clinical settings.

CO4- Improve critical reading skills for interpreting medical texts and research articles.

CO5- Demonstrate the ability to compose structured and coherent reports, case studies, and reflections.

CO6- Cultivate professional vocabulary and expressions relevant to nursing practice and patient care.

#### Anatomy

CO1- Identify and describe the major anatomical structures and their functions within the human body.

CO2- Understand and explain the interrelationships between different organ systems and their roles in maintaining homeostasis.

CO3- Apply anatomical knowledge to understand common pathologies and their impact on body systems.

CO4- Demonstrate proficiency in using anatomical terminology and concepts in clinical contexts.

CO5- Analyze anatomical features through practical dissection and visualization techniques to enhance understanding.

CO6- Integrate anatomical knowledge into patient assessment and care planning to improve clinical outcomes.

#### Physiology

CO1- Understand and explain the fundamental physiological processes and their impact on overall health and bodily functions.

CO2- Describe the mechanisms of homeostasis and how the body maintains internal stability in response to external changes.

CO3- Apply knowledge of physiological principles to understand the effects of diseases and medical conditions on bodily systems.

CO4- Demonstrate the ability to interpret physiological data and lab results in the context of patient assessment and care.

CO5- Integrate physiological concepts into clinical practice to enhance patient monitoring, diagnosis, and treatment planning.





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CO6- Analyze the physiological basis of common nursing interventions and their effects on various body systems.

## **Nutrition**

CO1- Understand and describe the role of essential nutrients in maintaining health and supporting physiological functions.

CO2- Assess dietary needs and create appropriate nutrition plans for individuals across different life stages and health conditions.

CO3- Analyze the relationship between nutrition, metabolism, and chronic diseases, and apply this knowledge to patient care.

CO4- Demonstrate the ability to evaluate and modify dietary intake to address nutritional deficiencies or imbalances.

CO5- Integrate nutritional principles into patient education to promote healthy eating habits and improve clinical outcomes.

CO6- Apply evidence-based guidelines to develop and implement effective nutrition interventions in clinical settings.

## **Biochemistry**

CO1- Understand and describe the basic biochemical processes and their role in maintaining cellular and systemic functions.

CO2- Explain the structure and function of key bio molecules, including proteins, carbohydrates, lipids, and nucleic acids.

CO3- Apply biochemical principles to analyze metabolic pathways and their relevance to health and disease.

CO4- Interpret biochemical laboratory results to support diagnosis, treatment, and monitoring of patients.

CO5- Integrate knowledge of biochemistry into clinical practice to understand and address nutritional and metabolic disorders.

CO6- Demonstrate the ability to use biochemical concepts to support patient education and promote evidence-based care

## **Nursing Foundation**

CO1- Understand and articulate the fundamental principles and concepts of nursing practice and their application in patient care.

CO2- Demonstrate proficiency in basic nursing skills, including assessment, communication, and technical procedures.

CO3- Develop and implement holistic care plans that address the physical, emotional, and psychological needs of patients.

CO4- Apply knowledge of ethical and legal standards to ensure safe and effective nursing practice.





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CO5- Cultivate professional values and attitudes that contribute to compassionate and culturally competent care.

CO6- Analyze and apply evidence-based practices to improve patient outcomes and enhance nursing interventions.

## **Psychology**

CO1- Understand and explain key psychological theories and concepts relevant to mental health and patient behavior.

CO2- Analyze the impact of psychological factors on physical health, illness, and recovery processes.

CO3- Apply psychological principles to improve patient communication, empathy, and therapeutic relationships.

CO4- Identify and assess common mental health disorders and their implications for nursing care.

CO5- Utilize psychological assessments and interventions to support patient mental well-being and coping strategies.

CO6- Integrate knowledge of psychological principles into care plans to address the emotional and psychological needs of patient

## **Microbiology**

CO1- Understand and describe the fundamental principles of microbiology, including the structure, function, and classification of microorganisms.

CO2- Identify and differentiate between pathogenic and non-pathogenic microorganisms and their roles in health and disease.

CO3- Apply microbiological knowledge to understand the mechanisms of infection, transmission, and prevention of diseases.

CO4- Demonstrate proficiency in basic microbiological techniques for the identification and analysis of microbial agents.

CO5- Integrate principles of microbiology into infection control practices to prevent and manage healthcare-associated infections.

CO6- Analyze and apply evidence-based strategies for antimicrobial therapy and the management of resistant microorganisms

## **Introduction to computer**

CO1- Understand and describe basic computer hardware, software, and operating systems relevant to healthcare settings.

CO2- Demonstrate proficiency in using word processing, spreadsheet, and presentation software for creating and managing nursing documentation and reports.

CO3- Apply computer skills to manage and analyze patient data using electronic health records (EHR) systems.





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CO4- Utilize information technology to support communication, collaboration, and information sharing within the healthcare team.

CO5- Understand and apply basic principles of cyber security and data privacy to protect patient information and ensure compliance with healthcare regulations.

CO6-Develop skills in using healthcare-specific applications and software for clinical decision-making and patient care management





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## COURSE OUTCOME

### B Sc. (N) II year

#### Sociology

CO1- Understand and explain key sociological theories and concepts related to health, illness, and healthcare systems.

CO2- Analyze the impact of social factors such as culture, class, and family structure on health behaviors and healthcare access.

CO3- Examine the roles and responsibilities of healthcare professionals within various social and community contexts.

CO4- Apply sociological perspectives to address issues of health inequity and advocate for social justice in healthcare.

CO5- Demonstrate cultural competence by understanding and respecting diverse social backgrounds and practices in patient care.

CO6- Integrate sociological insights into patient assessments and care plans to improve patient outcomes and support holistic care

#### Pharmacology

CO1- Understand and describe the principles of pharmacokinetics and pharmacodynamics, including drug absorption, distribution, metabolism, and excretion.

CO2- Identify and categorize major classes of drugs, their mechanisms of action, therapeutic uses, and potential side effects.

CO3- Apply pharmacological knowledge to safely administer medications, including correct dosages, routes, and monitoring for adverse reactions.

CO4- Integrate knowledge of drug interactions and contraindications into patient care to optimize therapeutic outcomes and minimize risks.

CO5- Demonstrate the ability to educate patients and their families about medication regimens, including proper usage, potential side effects, and adherence strategies.

CO6- Utilize evidence-based guidelines to evaluate and manage medication therapy, including assessing the effectiveness and safety of drug treatments

#### Pathology & Genetics

CO1- Understand and describe the fundamental principles of pathology, including the mechanisms of disease development and progression.

CO2- Identify and explain common pathological conditions and their impact on various body systems.

CO3- Apply knowledge of genetic principles to understand the role of genetics in disease etiology, inheritance patterns, and personalized medicine.





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CO4- Interpret laboratory findings and diagnostic tests to support the assessment, diagnosis, and management of pathological conditions.

CO5- Integrate insights from pathology and genetics into patient care plans to address specific health needs and genetic predispositions.

CO6- Demonstrate the ability to educate patients and families about genetic conditions, disease prevention, and management strategies.

### **Medical Surgical Nursing (adult including geriatrics)-I**

CO1- Understand and apply the principles of medical-surgical nursing to assess, plan, implement, and evaluate care for adult and geriatric patients with a range of medical conditions.

CO2- Identify and manage common acute and chronic medical-surgical conditions, incorporating evidence-based practices to enhance patient outcomes.

CO3- Demonstrate proficiency in performing and interpreting essential clinical procedures and diagnostic tests relevant to adult and geriatric care.

CO4- Integrate knowledge of aging processes and geriatric syndromes into the care of elderly patients, addressing their unique physiological, psychological, and social needs.

CO5- Develop and implement individualized care plans that address the complexities of managing multiple health issues in adult and geriatric populations.

CO6- Utilize interdisciplinary collaboration and communication skills to coordinate care, educate patients and families, and promote continuity of care in medical-surgical settings

### **Community Health Nursing-I**

CO1- Understand and apply community health nursing principles to assess and address the health needs of individuals, families, and populations.

CO2- Develop and implement community-based health promotion and disease prevention programs tailored to specific community needs and health priorities.

CO3- Conduct comprehensive community assessments to identify health trends, resources, and gaps, and use this data to inform public health strategies.

CO4- Utilize epidemiological methods and data to analyze health patterns and design effective interventions for improving community health outcomes.

CO5- Demonstrate the ability to work collaboratively with community stakeholders, agencies, and interdisciplinary teams to enhance public health initiatives.

CO6- Educate and empower community members through health education, advocacy, and support, focusing on disease prevention, health maintenance, and lifestyle modification

### **Communication Education Technology**

CO1- Understand and apply principles of communication and educational technology to enhance nursing education and practice.

CO2- Develop and utilize various digital tools and platforms to create engaging and effective instructional materials for nursing education







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CO3- Demonstrate proficiency in using technology for simulation, e-learning, and virtual patient interactions to support clinical training and skill development.

CO4- Apply strategies for effective communication and collaboration using technology to improve patient education and inter professional teamwork.

CO5- Evaluate and integrate emerging technologies into nursing practice to enhance patient care, education, and health outcomes.

CO6-Utilize data management and electronic health records (EHR) systems to support evidence-based practice and streamline healthcare delivery.





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## COURSE OUTCOME

### B Sc. (N) III year

#### Medical-Surgical Nursing

- CO1- Perform detailed and systematic assessments of adult patients with medical and surgical conditions, identifying key clinical signs, symptoms, and risk factors to inform care planning.
- CO2- Demonstrate the ability to apply critical thinking and clinical judgment in making informed decisions about the care of patients with complex medical and surgical needs.
- CO3- Plan, implement, and evaluate evidence-based nursing interventions for patients undergoing medical and surgical treatments, ensuring safe and effective care.
- CO4- Gain proficiency in managing the care of patients before, during, and after surgery, including preoperative preparation, intra operative support, and postoperative recovery.
- CO5- Educate patients and their families about medical and surgical procedures, recovery processes, and health maintenance, while advocating for patient rights and informed decision-making.
- CO6- Develop the skills to respond to emergencies and critical situations in medical-surgical settings, including the ability to perform life-saving interventions and coordinate care in high-pressure environments.

#### Mental Health Nursing

- CO1- Conduct comprehensive mental health assessments, identifying psychiatric symptoms, risk factors, and the psychosocial needs of individuals across the lifespan.
- CO2- Demonstrate effective therapeutic communication techniques to build rapport with patients, facilitate trust, and support individuals with mental health disorders in their recovery process.
- CO3- Plan, implement, and evaluate individualized nursing interventions for patients with mental health conditions, utilizing evidence-based practices to promote mental well-being and recovery.
- CO4- Develop the ability to recognize and manage psychiatric emergencies, including suicidal ideation, aggression, and acute mental health crises, ensuring patient safety and stabilization.
- CO5- Work collaboratively with multidisciplinary teams, including psychiatrists, psychologists, and social workers, to deliver coordinated and comprehensive mental health care to patients.
- CO6- Understand and apply ethical principles and legal standards in mental health nursing, including patient rights, informed consent, confidentiality, and the ethical complexities of psychiatric care.

#### Child Health Nursing

- CO1- Perform detailed assessments of infants, children, and adolescents, identifying growth and developmental milestones, health issues, and potential risk factors to inform care planning.
- CO2- Demonstrate the ability to provide nursing care that is family-centered, addressing the physical, emotional, and psychosocial needs of both the child and their family, and involving them in care decisions.
- CO3- Plan, implement, and evaluate evidence-based nursing interventions for children with acute and chronic health conditions, ensuring safe, effective, and age-appropriate care.





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CO4- Design and deliver health education and promotion activities aimed at preventing childhood illnesses, promoting vaccination, nutrition, and healthy lifestyle choices in pediatric populations.

CO5- Develop skills in recognizing and managing pediatric emergencies, including resuscitation, trauma care, and the stabilization of critically ill children in various healthcare settings.

CO6- Understand and apply ethical principles and legal standards in pediatric nursing, including issues related to consent, confidentiality, and advocacy for the rights and best interests of children.

## Nursing Research

CO1- Explain various research methodologies, including qualitative and quantitative approaches, and apply them appropriately in the context of nursing research.

CO2- Develop the ability to critically appraise nursing research studies, evaluating the validity, reliability, and applicability of research findings to clinical practice.

CO3- Demonstrate the ability to design a research proposal, including the formulation of research questions or hypotheses, literature review, selection of appropriate methodologies, and consideration of ethical issues.

CO4- Conduct data collection using valid and reliable tools, and analyze the data using appropriate statistical or thematic analysis techniques, interpreting the results in the context of nursing practice.

CO5- Integrate research findings into clinical practice, promoting evidence-based nursing care and contributing to the improvement of patient outcomes and healthcare quality.

CO6- Understand and apply ethical principles in the conduct of nursing research, including issues related to informed consent, confidentiality, and the protection of human subjects.





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## COURSE OUTCOME

### B Sc. (N) IV year

#### Obstetrics & gynecology Nursing

CO1- Provide holistic nursing care to women across the lifespan, addressing reproductive health needs, gynecological conditions, and obstetric care with a focus on prevention, early detection, and management.

CO2- Demonstrate proficiency in performing and assisting with various obstetric and gynecological procedures, including prenatal care, labor and delivery, postpartum care, and the management of gynecological disorders.

CO3- Apply critical thinking skills and evidence-based practices to assess, plan, implement, and evaluate nursing interventions for women experiencing normal and high-risk pregnancies, labor, and gynecological issues.

CO4- Develop and deliver effective patient education and counseling on topics related to reproductive health, family planning, maternal and neonatal care, menopause, and prevention of gynecological cancers.

CO5- Work collaboratively within a multidisciplinary healthcare team, demonstrating effective communication skills to ensure the delivery of safe and coordinated care for women and their families.

CO6- Understand and apply ethical and legal principles in obstetric and gynecological nursing practice, including patient rights, informed consent, confidentiality, and advocacy for women's health.

#### Community Health Nursing-II

CO1- Conduct comprehensive community health assessments, identifying health needs, resources, and potential health risks within a community, and develop appropriate community health plans and interventions.

CO2- Design and implement effective health promotion and disease prevention programs targeting individuals, families, and communities, with a focus on reducing health disparities and improving public health outcomes.

CO3- Apply principles of epidemiology to monitor and manage community health issues, including tracking disease outbreaks, analyzing health data, and implementing public health strategies to control and prevent diseases.

CO4- Demonstrate the ability to provide culturally sensitive care and health education, respecting the diverse beliefs, practices, and needs of different populations within the community.

CO5- Collaborate with various stakeholders, including healthcare professionals, government agencies, and non-governmental organizations, to advocate for policies and programs that promote community health and well-being.





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CO6- Exhibit leadership and management skills in planning, coordinating, and evaluating community health services, ensuring the delivery of high-quality, accessible, and equitable healthcare.

## **Nursing Management**

CO1- Demonstrate leadership skills in managing nursing teams, including effective delegation, conflict resolution, and fostering a positive work environment to ensure high-quality patient care.

CO2- Gain proficiency in managing the day-to-day operations of healthcare units, including resource management, staffing, budgeting, and maintaining compliance with healthcare policies and regulations.

CO3- Design and implement quality improvement initiatives aimed at enhancing patient safety, reducing medical errors, and improving overall healthcare outcomes within a clinical setting.

CO4- Understand and apply ethical principles and legal standards in nursing management, including patient rights, informed consent, confidentiality, and the ethical implications of management decisions.

CO5- Develop skills in strategic planning and decision-making, including the ability to analyze healthcare trends, anticipate challenges, and implement strategies that align with organizational goals.

CO6- Effectively communicate with healthcare teams, administrators, and other stakeholders, promoting collaboration and teamwork to achieve organizational and patient care objectives.





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## COURSE OUTCOMES

### M. Sc. Nursing 1<sup>st</sup> year

#### Nursing Education:

CO1- Develop advanced clinical skills and knowledge to assess, diagnose, and manage complex patient care situations across various healthcare settings.

CO2- Acquire the ability to critically evaluate and integrate research findings into clinical practice, contributing to the advancement of evidence-based nursing practices.

CO3- Demonstrate leadership qualities and management skills necessary to lead healthcare teams, improve patient outcomes, and contribute to healthcare policy development.

CO4- Apply ethical principles and professional standards in making complex decisions related to patient care, ensuring patient safety, and upholding the integrity of the nursing profession.

CO5- Develop the ability to design, implement, and evaluate educational programs for patients, families, and healthcare professionals, enhancing health literacy and promoting best practices in nursing care.

CO6- Gain expertise in developing and implementing strategies for health promotion and disease prevention at the individual, family, and community levels, focusing on improving overall population health.

#### Advance Nursing Practice:

CO1- Enhance the ability to make complex clinical decisions by integrating advanced nursing knowledge, clinical judgment, and patient-centred care approaches in diverse healthcare settings.

CO2- Develop skills to provide holistic care that addresses the physical, emotional, social, and spiritual needs of patients, ensuring comprehensive and personalized care plans.

CO3- Acquire in-depth knowledge of patho physiology and pharmacology to effectively manage and treat complex health conditions, utilizing advanced therapeutic interventions.

CO4- Cultivate the ability to work effectively within inter professional teams, promoting collaborative practices that improve patient outcomes and enhance the quality of care delivery.

CO5- Develop an understanding of health policy and the skills needed to advocate for patients, communities, and the nursing profession at local, national, and global levels.

CO6- Gain expertise in implementing quality improvement initiatives and safety measures in clinical practice, with a focus on reducing errors, enhancing patient safety, and improving care standards.

#### Medical Surgical Nursing-I

CO1- Develop the ability to perform detailed and systematic assessments of adult patients with complex medical and surgical conditions, utilizing advanced clinical skills and critical thinking.

CO2- Gain expertise in managing a wide range of acute and chronic medical-surgical conditions, implementing evidence-based interventions to optimize patient outcomes.





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CO3- Acquire knowledge and skills in peri operative nursing care, including preoperative assessments, intra operative monitoring, and postoperative management, ensuring patient safety and recovery.

CO4- Understand the advanced pathophysiology of diseases commonly encountered in medical-surgical nursing and apply this knowledge to develop and implement effective treatment plans.

CO5- Develop the ability to educate and counsel patients and their families about their conditions, treatment options, and self-care strategies, promoting informed decision-making and adherence to care plans.

CO6- Enhance skills in critical care nursing, including the ability to respond effectively to emergencies and life-threatening situations, providing timely and appropriate interventions to stabilize patients.

## **Obstetric & Gynaecological Nursing-I**

CO1- Develop the ability to provide advanced care for women during pregnancy, labour, delivery, and the postpartum period, as well as for newborns, ensuring the health and well-being of both mother and child.

CO2- Gain expertise in identifying, assessing, and managing high-risk pregnancies and complications, utilizing evidence-based practices to minimize risks and improve maternal-fetal outcomes.

CO3- Acquire advanced knowledge and skills in the care of women with gynaecological conditions, including reproductive health issues, menstrual disorders, infertility, and menopause.

CO4- Develop the ability to counsel and educate women on family planning methods, reproductive health, and contraception, promoting informed decision-making and reproductive autonomy.

CO5- Understand the psychological aspects of pregnancy and postpartum, including the identification and management of perinatal mental health disorders such as depression and anxiety.

CO6- Explore the ethical and legal issues related to obstetric and gynaecological nursing, including patient rights, informed consent, and the management of sensitive reproductive health matters.

## **Child Health Nursing-I**

CO1- Develop advanced skills in performing comprehensive health assessments for children from infancy through adolescence, including physical, developmental, and psychosocial evaluations

CO2- Gain expertise in managing a wide range of acute and chronic paediatric health conditions, utilizing evidence-based interventions tailored to the unique needs of children and their families.

CO3- Acquire in-depth knowledge of paediatric pharmacology, including the safe administration of medications and the management of therapeutic interventions specific to children.

CO4- Cultivate the ability to provide family-centred care, recognizing the importance of the family unit in the health and well-being of the child, and involving families in care planning and decision-making.

CO5- Understand the principles of normal and abnormal growth and development in children, and apply this knowledge to identify developmental delays and implement appropriate interventions.





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CO6- Develop skills in promoting health and preventing disease among children through education, immunization programs, and the early detection of health issues, contributing to the overall well-being of the paediatric population.

## **Mental Health Nursing-I**

CO1- Develop the ability to conduct comprehensive mental health assessments, including the evaluation of psychological, emotional, and behavioural conditions across diverse populations.

CO2- Gain expertise in the management of a wide range of psychiatric disorders, utilizing evidence-based interventions such as psychotherapy, psychopharmacology, and crisis intervention.

CO3- Enhance therapeutic communication skills to effectively engage with patients experiencing mental health issues, fostering a therapeutic relationship that promotes recovery and well-being.

CO4- Understand the ethical and legal considerations in mental health nursing, including issues related to patient rights, informed consent, confidentiality, and the management of involuntary admissions.

CO5- Develop cultural competence in mental health care, recognizing the impact of cultural, social, and economic factors on mental health and tailoring interventions to meet the needs of diverse patient populations.

CO6- Acquire the skills to promote mental health and prevent mental illness through community-based initiatives, psycho education, and the early identification of at-risk individuals

## **Community Health Nursing-I**

CO1- Develop the ability to conduct thorough assessments of communities and populations, identifying health needs, risk factors, and resources to plan and implement effective public health interventions.

CO2- Gain expertise in applying epidemiological principles to monitor, prevent, and control diseases within communities, utilizing data-driven approaches to improve public health outcomes.

CO3- Acquire skills in designing and implementing health promotion and disease prevention programs aimed at improving the health status of diverse populations across the lifespan.

CO4- Understand the impact of environmental and occupational factors on health, and develop strategies to mitigate risks associated with exposure to hazardous conditions in various settings.

CO5- Enhance the ability to provide nursing care in community settings, including home care, school health, and workplace wellness, focusing on holistic and culturally competent care delivery.

CO6- Develop the capacity to advocate for health policies and programs that address social determinants of health, reduce health disparities, and promote equitable access to healthcare services within communities.

## **Nursing Research:**

CO1- Develop a strong foundation in research methodologies, including both quantitative and qualitative approaches, to design and conduct rigorous nursing research studies.







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CO2- Acquire the ability to critically evaluate existing research literature, identifying strengths, limitations, and gaps in knowledge to inform evidence-based nursing practice.

CO3- Gain expertise in various data collection methods and statistical analysis techniques, enabling the accurate interpretation of research findings and their application to clinical practice.

CO4- Understand the ethical principles governing nursing research, including issues related to informed consent, confidentiality, and the protection of human subjects, ensuring the conduct of responsible and ethical research.

CO5- Develop the skills to create comprehensive research proposals, including the formulation of research questions, hypothesis generation, literature review, and study design.

CO6- Enhance the ability to translate research findings into clinical practice, contributing to the advancement of nursing knowledge and improving patient care outcomes through evidence-based interventions.

## Statistics

CO1- Develop a solid understanding of fundamental statistical concepts, including descriptive and inferential statistics, to accurately analyse and interpret data in nursing research.

CO2- Gain proficiency in data management, including data entry, coding, cleaning, and organizing datasets, to ensure the reliability and validity of research findings.

CO3- Learn to apply appropriate statistical techniques, such as hypothesis testing, correlation, regression, and analysis of variance (ANOVA), to explore relationships and test research hypotheses in nursing studies.

CO4- Acquire skills in using statistical software (e.g., SPSS, R) for data analysis, enabling efficient and accurate processing of large datasets in nursing research projects.

CO5- Develop the ability to interpret statistical results effectively and present findings in a clear and meaningful way, including the use of tables, graphs, and charts, to communicate research outcomes to diverse audiences.

CO6- Enhance the ability to critically evaluate the use of statistics in published nursing research, identifying potential biases, errors, and misinterpretations, to ensure the credibility of evidence-based practice.

## Nursing Management

CO1- Develop advanced leadership and management skills necessary for effectively leading nursing teams, managing healthcare facilities, and ensuring high-quality patient care.

CO2- Gain expertise in strategic planning and decision-making processes, enabling the development and implementation of organizational goals, policies, and procedures in healthcare settings.

CO3- Acquire knowledge in human resource management, including recruitment, training, performance evaluation, and conflict resolution, to optimize staff performance and job satisfaction.

CO4- Understand the principles of financial management in healthcare, including budgeting, cost control, and resource allocation, to ensure the economic sustainability of healthcare organizations.





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CO5- Develop the ability to design and implement quality improvement initiatives and patient safety programs, aimed at enhancing care outcomes and minimizing risks in clinical practice.

CO6- Gain an understanding of the legal and ethical issues related to nursing management, including compliance with healthcare regulations, risk management, and the ethical implications of managerial decisions.





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## COURSE OUTCOMES

### M Sc (N) II year

#### Medical Surgical Nursing-II

##### Cardiovascular & Thoracic Nursing

CO1- Demonstrate expertise in the assessment, diagnosis, and management of complex (acute & chronic) cardiovascular and thoracic conditions.

CO2- Apply evidence-based practices and advanced technologies to enhance patient outcomes through improved patient care & safety in cardiovascular and thoracic care.

CO3- Plan & provide advanced care to patients in Intensive cardiovascular and thoracic settings, including postoperative management of patients undergoing cardiac and thoracic surgeries.

CO4- Exhibit leadership and advanced practice skills in managing cardiovascular and thoracic nursing teams.

CO5- Design and deliver comprehensive education programs for patients and their families regarding cardiovascular and thoracic health.

CO6- Conduct and apply research in cardiovascular and thoracic nursing to inform and enhance clinical practice.

##### Critical Care Nursing

CO1- Demonstrate proficiency in the comprehensive assessment, diagnosis, and management of complex, critically ill patients.

CO2- Apply advanced life support techniques and utilize sophisticated monitoring equipment to manage critical patients effectively.

CO3- Exhibit leadership and coordination skills within a critical care environment.

CO4- Integrate evidence-based practices into critical care interventions to enhance patient outcomes.

CO5- Provide holistic and family-centered care in critical situations including effective communication with patients and their families, addressing their emotional and psychological needs, and involving them in care decisions.

CO6- Navigate complex ethical dilemmas and manage crises in the critical care setting.

##### Oncology Nursing

CO1- Demonstrate expertise in the assessment, diagnosis, and management of patients with cancer, including the administration of complex treatments such as chemotherapy, immunotherapy, and targeted therapies.

CO2- Apply advanced strategies for managing pain and other symptoms related to cancer and its treatments to improve patient comfort and quality of life.

CO3- Design and implement comprehensive education programs for patients and their families about cancer, treatment options, side effects, and supportive care.





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CO4- Exhibit leadership and advanced practice skills in oncology nursing including leading care teams, mentoring junior staff, and developing and implementing best practices and protocols in oncology care settings.

CO5- Conduct and apply research to advance oncology nursing practice focusing on improving cancer care and patient outcomes.

CO6- Address ethical issues and provide psychosocial support to patients with cancer and their families.

## Neuroscience Nursing

CO1- Demonstrate expertise in the assessment, diagnosis, and management of complex neurological conditions.

CO2- Provide advanced care for critically ill neurological patients involves managing acute neurological emergencies.

CO3- Apply evidence-based practices to improve patient outcomes in neurological nursing integrating current research findings into clinical practice to enhance care.

CO4- Develop and implement comprehensive neuro rehabilitation plans for patients with neurological impairments.

CO5- Exhibit leadership and advanced practice skills in neurological nursing settings.

CO6- Address ethical issues and provide psychosocial support to patients with neurological conditions and their families.

## Nephro Urological Nursing

CO1- Demonstrate proficiency in the comprehensive assessment, diagnosis, and management of complex nephrological and urological conditions, including chronic kidney disease, acute kidney injury, and complex urological disorders such as bladder cancer and kidney stones.

CO2- Provide advanced care in the administration and management of dialysis therapies, including hemodialysis and peritoneal dialysis.

CO3- Apply evidence-based practices to enhance patient outcomes in nephro-urological nursing which helps clinical decision-making, developing and implementing best practice guidelines, and participating in quality improvement initiatives.

CO4- Exhibit leadership and advanced practice skills in nephro-urological nursing settings.

CO5- Design and deliver comprehensive education programs for patients and families on nephro-urological health, including disease management, treatment options, and lifestyle modifications.

CO6- Navigate ethical dilemmas and provide psychosocial support to patients with nephro-urological conditions addressing issues such as end-of-life care, transplant ethics, and providing emotional and psychological support to improve overall patient and family well-being.

## Orthopedic Nursing





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CO1- Demonstrate expertise in the comprehensive assessment, diagnosis, and management of complex orthopedic conditions, managing acute and chronic musculoskeletal injuries, deformities, and disorders, as well as postoperative care following orthopedic surgeries.

CO2- Apply advanced strategies for pain management and rehabilitation in orthopedic patients this includes utilizing pharmacological and non-pharmacological methods, designing rehabilitation programs, and monitoring patient progress to enhance recovery and functional outcomes.

CO3- Integrate evidence-based practices into orthopedic nursing care to improve patient outcomes this involves staying updated with the latest research, applying clinical guidelines, and participating in quality improvement initiatives to advance orthopedic care.

CO4- Exhibit leadership and advanced practice skills in orthopedic nursing settings this includes managing and coordinating interdisciplinary teams, overseeing complex cases, and implementing best practices to enhance patient care and safety.

CO5- Design and deliver effective education programs for patients and families on orthopedic health this includes creating tailored educational materials and interventions to support self-management, postoperative care, and lifestyle modifications.

CO6- Address ethical issues and provide psychosocial support to patients with orthopedic conditions involves navigating complex ethical dilemmas, providing emotional and psychological support, and advocating for patient needs and preferences throughout their care journey.

## **Gastroenterology Nursing**

CO1- Demonstrate proficiency in the comprehensive assessment, diagnosis, and management of complex gastrointestinal conditions includes managing acute and chronic disorders

CO2- Apply advanced therapeutic interventions and technologies in the management of gastrointestinal disorders includes performing and assisting with advance procedures, managing parenteral nutrition, and administering specialized pharmacological treatments.

CO3- Integrate evidence-based practices into gastrointestinal nursing care to enhance patient outcomes involves utilizing current research findings to guide clinical decision-making, develop care protocols, and improve quality of care.

CO4- Exhibit leadership and management skills in gastrointestinal nursing settings by coordinating interdisciplinary care teams, managing complex cases, and leading initiatives to improve patient care and safety.

CO5- Develop and deliver comprehensive education programs for patients and families regarding gastrointestinal health through creating personalized educational materials, teaching self-management strategies, and providing support for dietary and lifestyle changes.

CO6- Navigate ethical issues and provide psychosocial support to patients with gastrointestinal conditions by addressing end-of-life issues, ensuring patient autonomy, and offering emotional support to enhance overall patient and family well-being.

## **Obstetric & Gynecological Nursing**





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CO1- Demonstrate proficiency in the assessment, diagnosis, and management of complex obstetric and gynecological conditions by providing high-level care in areas such as high-risk pregnancies, postpartum complications, and gynecological disorders.

CO2- Apply evidence-based practices to improve patient outcomes in obstetric and gynecological care through integrating the latest research findings into clinical practice to enhance care quality and patient safety.

CO3- Exhibit leadership skills and advanced practice competencies in managing obstetric and gynecological nursing teams by coordinating care, mentoring junior staff, and leading initiatives to improve care delivery and patient outcomes.

CO4- Design and implement comprehensive educational programs for patients and families regarding peri natal and reproductive health to support health promotion and disease prevention.

CO5- Conduct and interpret advanced assessments related to maternal and fetal health using diagnostic tools and techniques to monitor and manage the health of pregnant individuals and their babies effectively.

CO6- Address ethical issues and advocate for patients' rights within obstetric and gynecological care settings navigating complex ethical dilemmas, ensuring patient autonomy, and promoting equitable access to care.

## **Pediatric (Child Health) Nursing**

CO1- Demonstrate proficiency in the comprehensive management of complex pediatric conditions, including acute and chronic illnesses by gaining advanced skills in assessment, diagnosis, and treatment planning for pediatric patients across various settings.

CO2- Integrate evidence-based practices into pediatric nursing care to enhance patient outcomes by evaluating and applying current research findings to develop and implement clinical guidelines and best practices for managing pediatric conditions.

CO3- Exhibit leadership and collaborative skills in managing pediatric care teams by leading interdisciplinary teams, coordinating care among various healthcare professionals, and driving quality improvement initiatives within pediatric settings.

CO4- Design and deliver effective educational programs tailored to pediatric patients and their families.

CO5- Address ethical issues and provide psychosocial support to pediatric patients and their families by managing complex ethical dilemmas, offering emotional and psychological support, and advocating for the best interests of patients.

CO6- Conduct research and quality improvement projects to advance pediatric nursing practice by designing and implementing research studies, analyzing data, and applying findings to improve care delivery and patient outcomes in pediatric settings.

## **Psychiatric (Mental Health) Nursing**

CO1- Demonstrate advanced skills in the assessment, diagnosis, and management of complex psychiatric and mental health conditions. This includes conducting comprehensive mental health





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evaluations, interpreting diagnostic tests, and developing tailored treatment plans for various mental health disorders.

CO2- Integrate evidence-based therapeutic interventions into psychiatric nursing practice. This involves applying current research findings to develop and implement effective treatment strategies, including pharmacological and non-pharmacological therapies, for managing mental health conditions.

CO3- Exhibit leadership and management skills in mental health settings. This includes leading interdisciplinary teams, managing mental health services, and implementing quality improvement initiatives to enhance patient care and safety in psychiatric environments.

CO4- Design and deliver comprehensive psycho education programs for patients and their families. This includes creating educational materials and interventions that address mental health conditions, treatment options, coping strategies, and support systems to improve understanding and adherence to care plans.

CO5- Apply ethical and legal principles to address complex issues in psychiatric nursing. This involves managing issues related to patient consent, confidentiality, involuntary treatment, and ethical dilemmas in mental health care while advocating for patient rights and autonomy.

CO6- Conduct research and apply evidence-based practices to advance the field of psychiatric nursing by designing and executing research projects, analyzing data, and utilizing research findings to improve mental health care practices and outcomes.

## Community Health Nursing II

CO1- Demonstrate the ability to conduct comprehensive community health assessments using advanced techniques and tools. This includes analyzing epidemiological data, identifying health needs, and assessing the social determinants of health within diverse communities.

CO2- Develop and implement strategic health plans and interventions that address identified community health needs by creating, executing, and evaluating community-based health programs and policies to improve population health outcomes.

CO3- Exhibit leadership and management skills necessary for overseeing community health programs and services by managing teams, coordinating with other health professionals and agencies, and ensuring the efficient delivery of community health initiatives.

CO4- Apply principles of evidence-based practice to inform community health nursing interventions through conducting and utilizing research to develop and refine practice guidelines, ensuring that community health strategies are grounded in the latest scientific evidence.

CO5- Design and deliver effective health promotion and education programs tailored to the needs of different population groups by creating culturally sensitive educational materials and utilizing various communication strategies to enhance community health literacy.

CO6- Analyze and advocate for health policies that impact community health through engaging in policy development, assess the implications of health policies, and advocate for changes that support health equity and access to care within the community.

