



COURSE OUTCOME - M.SC.NURSING

SL.NO	COURSE
M.Sc. Nursing - I Year	
1	Nursing Education
2	Advance Nursing Practice
3	Clinical Speciality-I
	i. Medical Surgical Nursing
	ii. Obstetrics and Gynecological Nursing
	iii. Child Health (Pediatric) Nursing
	iv. Mental Health (Psychiatric) Nursing
v. Community Health Nursing	
4	Nursing Research & Statistics
M.Sc. Nursing - II Year	
1	Nursing Management
2	Clinical Speciality - II
	i. Medical Surgical Nursing
	a. Cardiovascular & Thoracic Nursing
	b. Critical Care Nursing
	c. Oncology Nursing
	d. Neuroscience Nursing
	e. Nephro-Urology Nursing
	f. Orthopedic Nursing
	g. Gastroenterology Nursing
	ii. Obstetric & Gynecological Nursing
	iii. Pediatric (Child Health) Nursing
	iv. Mental Health (Psychiatric) Nursing
	v. Community Health Nursing



COURSE: M.SC. NURSING - I YEAR

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

1. NURSING EDUCATION

- CO1: Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
- CO 2: Describe the teaching learning process.
- CO 3: Prepare and utilize various instructional media and methods in teaching learning process.
- CO 4: Demonstrate competency in teaching, using various instructional strategies.
- CO 5: Critically analyze the existing nursing educational programs, their problems, issues and future trends.
- CO 6: Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
- CO 7: Plan and conduct continuing nursing education programs.
- CO 8: Critically analyze the existing teacher preparation programs in nursing.
- CO 9: Demonstrate skill in guidance and counseling.
- CO 10: Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
- CO 11 Explain the development of standards and accreditation process in nursing education programs.
- CO 12. Identify research priorities in nursing education.
- CO 13. Discuss various models of collaboration in nursing education and services.
- CO 14. Explain the concept, principles, steps, tools and techniques of evaluation.
- CO 15. Construct, administer and evaluate various tools for assessment of knowledge, skill and attitude

2. ADVANCED NURSING PRACTICE

- CO1.Appreciate and analyze the development of nursing as a profession.
- CO2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
- CO3. Explain bio-psycho-social dynamics of health, life style and health care delivery system.



- C04. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
- C05. Describe scope of nursing practice.
- C06. Provide holistic and competent nursing care following nursing process approach.
- C07. Identify latest trends in nursing and the basis of advance nursing practice.
- C08. Perform extended and expanded role of nurse.
- C09. Describe alternative modalities of nursing care.
- C010. Describe the concept of quality control in nursing.
- C011. Identify the scope of nursing research.
- C012. Use computer in patient care delivery system and nursing practice.
- C013. Appreciate importance of self-development and professional advancement.

3. CLINICAL SPECIALITY - I

i. MEDICAL SURGICAL NURSING - P50

- C01. Appreciate the trends & issues in the field of medical surgical nursing as a specialty.
- C02. Apply concepts & theories related to health promotion.
- C03. Appreciate the client as a holistic individual.
- C04. Perform physical, psychosocial assessment of medical surgical patients.
- C05. Apply nursing process in providing care to patients.
- C06. Integrate the concept of family centered nursing care with associated disorders such as genetic, congenital and long term illness.
- C07. Recognize and manage emergencies with medical surgical patients.
- C08. Describe various recent technologies & treatment modalities in the management of critically ill patients.
- C09. Appreciate the legal & ethical issues relevant to medical surgical nursing.
- C010. Prepare a design for layout and management of medical surgical units.
- C011. Appreciate the role of alternative system of medicine in care of patients.
- C012. Incorporate evidence based nursing practice and identify the areas of research in the



field of medical surgical nursing.

CO13. Recognize the role of nurse practitioner as a member of medical surgical health team.

CO14. Teach medical surgical nursing to undergraduate nursing students and in-service nurses

ii. OBSTETRICS AND GYNAECOLOGY NURSING

CO I. Appreciate the trends in the field of midwifery, obstetrics and gynecology as a specialty.

CO2. Describe the population dynamics and indicators of maternal and child health.

CO3. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.

CO4. Provide comprehensive nursing care to women during reproductive period and newborns.

CO5. Integrate the concepts of family centered nursing care and nursing process approach in obstetrics and gynecology nursing

CO6. Identify and analyze the deviations from normal birth process and refer appropriately.

CO7. Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse.

CO8. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation.

CO9. Describe the role of various types of complementary and alternative therapies in obstetrics and gynaecology nursing

CO10. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrics and gynaecology nursing

CO11. Describe the recent advancement in contraceptive technology and birth control measures

CO12. Appreciate the legal and ethical issues pertaining to obstetrics and gynaecology nursing.

iii. CHILD HEALTH (PAEDIATRIC) NURSING

CO1. Appreciate the history and developments in the field of pediatrics and pediatric nursing as a specialty.

CO2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.

CO3. Appreciate the child as a holistic individual.



- C04. Perform physical, developmental, and nutritional assessment of pediatric clients.
- C05. Apply nursing process in providing nursing care to neonates & children.
- C06. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
- C07. Recognize and manage emergencies in neonates.
- C08. Describe various recent technologies and treatment modalities in the management of high risk neonates.
- C09. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing.
- C010. Prepare a design for layout and management of neonatal units.
- C011. Incorporate evidence based nursing practice and identify the areas of research in the field of pediatric / neonatal nursing.
- C012. Recognize the role of pediatric nurse practitioner and as a member of the pediatric and neonatal health team.
- C013. Teach pediatric nursing to undergraduate students & in-service nurses.

iv. MENTAL HEALTH (PSYCHIATRIC) NURSING

- C01. Appreciate the trends and issues in the field of psychiatry and psychiatric nursing
- C02. Explain the dynamics of personality development and human behavior.
- C03. Describe the concepts of psychobiology in mental disorders and its implications for psychiatric nursing
- C04. Demonstrate therapeutic communication skills in all interactions
- C05. Demonstrate the role psychiatric nurse practitioner in various therapeutic modalities
- C06. Establish and maintain therapeutic relationship with individual and groups
- C07. Use assertive techniques in personal and professional actions
- C08. Promote self-esteem of clients, others and self
- C09. Apply the nursing process approach in caring for patients with mental disorders
- C010. Describe the psychopharmacological agents, their effects and nurses role
- C011. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and mental health team
- C012. Describe various types of alternative system of medicines used in psychiatric settings
- C013. Incorporate evidence based nursing practice and identify the areas of research in the field of



psychiatric nursing

v. COMMUNITY HEALTH NURSING

- C01. Appreciate the history and development in the field of community Health and community Health nursing.
- C02. Appreciate role of individuals and families in promoting health of the community.
- C03. Perform physical, developmental and nutritional assessment of individuals, families and groups.
- C04. Apply the concepts of promotive, preventive, curative and rehabilitative aspect of the health while providing care to the people.
- C05. Apply nursing process approach while providing care to individuals, families, groups and community.
- C06. Integrate the concepts of family centered nursing approach while providing care to the community.
- C07. Recognize and participate in the management of emergencies, epidemics and disasters.
- C08. Apply recent technologies and care modalities while delivering community health nursing care.
- C09. Appreciate legal and ethical issues pertaining to community health nursing care.
- C010. Conduct community health nursing care project.
- C011. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
- C012. Incorporate evidence based nursing practice and identify the areas of research in the community settings.
- C013. Participate effectively as a member of Community Health team.
- C014. Coordinate and collaborate with various agencies operating in the community by using intersectoral approach.
- C015. Teach community health nursing to undergraduates, in-service nurse and the community health workers.
- C016. Demonstrate leadership and managerial abilities in community health nursing practice.



4. NURSING RESEARCH AND STATISTICS

- C01. Define basic research terms and concepts.
- C02. Review literature utilizing various sources.
- C03. Describe research methodology.
- C04. Develop a research proposal.
- C05. Conduct of a research study.
- C06. Communicate research findings.
- C07. Utilize research findings.
- C08. Critically evaluate nursing research studies.
- C09. Write scientific papers for publication
- C010. Explain the basic concepts related to statistics
- C011. Describe the scope of statistics in health and nursing
- CO 12. Organize, tabulate and present data meaningfully
- CO 13. Use descriptive and inferential statistics to predict results
- C014. Draw conclusions of the study and predict statistical significance of the results
- C015. Describe vital health statistics and their use in health related research
- C016. Use statistical packages for data analysis

COURSE: M.SC. NURSING II YEAR

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

1. NURSING MANAGEMENT

- C01. Describe the philosophy and objectives of the healthcare institutions at various levels.
- C02. Identify trends and issues in nursing.
- C03. Discuss the public administration, healthcare administration vis a vis nursing administration.
- C04. Describe the principles of administration applied to nursing.
- C05. Explain the organization of health and nursing services at the various levels/institutions.
- C06. Collaborate and co-ordinate with various agencies by using multi-sectoral approach.
- C07. Discuss the planning, supervision and management of nursing workforce of various healthcare settings.



C08. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care.

C09. Identify and analyses legal and ethical issues in nursing administration.

C010. Describe the process of quality assurance in nursing services.

C011. Demonstrate leadership in nursing at various levels.

1. CLINICAL SPECIALITY - II

i. MEDICAL SURGICAL NURSING *PSO*

a. CARDIOVASCULAR AND THORACIC NURSING

C01. Appreciate trends and issues related to cardiovascular and thoracic nursing.

C02. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardiovascular and thoracic conditions.

C03. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardiovascular and thoracic conditions.

C04. Perform physical, psychosocial & spiritual assessment

C05. Assist in various diagnostic, therapeutic and surgical procedures

C06. Apply nursing process in providing comprehensive care to patients with cardiovascular and thoracic conditions.

C07. Demonstrate advanced skills/competence in managing patients with cardiovascular and thoracic conditions including advanced cardiac life support.

C08. Describe the various drugs used in cardiovascular and thoracic conditions and nurses responsibility

C09. Demonstrate skill in handling various equipments/gadgets used for critical care of cardiovascular and thoracic patients

C010. Appreciate team work & coordinate activities related to patient care.

C011. Practice infection control measures

C012. Identify emergencies and complications & take appropriate measures

C013. Discuss the legal and ethical issues in cardiovascular and thoracic nursing.

C014. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.

C015. Appreciate the role of alternative system of medicine in care of patient



- CO16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardiovascular and thoracic nursing
- CO17. Identify the sources of stress and manage burnout syndrome among healthcare providers.
- CO18. Teach and supervise nurses and allied health workers.
- CO19. Design a layout of ICCU and ICTU and develop standards for cardiovascular and thoracic nursing practice.

b. CRITICAL CARE NURSING

- CO1. Appreciate trends and issues related to Critical Care Nursing
- CO2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patients.
- CO3. Describe the various drugs used in critical care and nurses' responsibility.
- CO4. Perform physical, psychosocial & spiritual assessment
- CO5. Demonstrate advanced skills/competence in managing critically ill patients including advanced cardiac life support
- CO6. Demonstrate skill in handling various equipments/gadgets used for critical care
- CO7. Provide comprehensive care to critically ill patients
- CO8. Appreciate team work & coordinate activities related to patient care
- CO9. Practice infection control measures.
- CO10. Assess and manage pain
- CO11. Identify complications & take appropriate measures
- CO12. Discuss the legal and ethical issues in critical care nursing
- CO13. Assist patients and their family to cope with emotional and spiritual distress, grief and anxiety
- CO14. Assist in various diagnostic, therapeutic and surgical procedures
- CO15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing
- CO16. Identify the sources of stress and manage burnout syndrome among healthcare providers.
- CO17. Teach and supervise nurses and allied health workers
- CO18. Design a layout of ICU and develop standards for critical care nursing practice.



c. ONCOLOGY NURSING

- C01. Explain the prevention, screening and early detection of cancer
- C02. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
- C03. Describe the psychosocial effects of cancer on patients and families
- C04. Demonstrate skill in administering/assisting various treatment modalities used for patients with cancer
- C05. Apply nursing process in providing holistic care to patients with cancer.
- C06. Apply specific concepts of pain management
- C07. Appreciate the care of death and dying patients and value of bereavement support
- C08. Describe the philosophy, concept and various dimensions of palliative care
- C09. Appreciate the role of alternative systems of medicine in care of patients with cancer
- C010. Appreciate the legal & ethical issues relevant to oncology nursing
- C011. Recognize and manage oncological emergencies
- C012. Counsel the patients with cancer and their families
- C013. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
- C014. Recognize the role of oncology nurse practitioner as a member of the oncology team
- C015. Collaborate with other agencies and utilize resources in caring for cancer patients.
- C016. Teach and supervise nurses and allied health workers
- C017. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

d. NEUROSCIENCES NURSING

- C01. Appreciate trends and issues related to neurology and neurosurgical nursing
- C02. Review the anatomy and physiology of nervous system
- C03. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
- C04. Perform neurological assessment and assist in diagnostic procedures
- C05. Describe the concepts and principles of neurosciences nursing
- C06. Describe the various drugs used in neurosciences and nurses responsibility.



- C07. Assist in various therapeutic and surgical procedures in neuroscience nursing
- C08. Demonstrate advanced skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
- C09. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional and spiritual distress, grief and anxiety
- C010. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
- C011. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
- C012. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing
- C013. Organize and contact in-service education program for nursing personnel
- C014. Develop standards of care for quality assurance in neuroscience nursing practice
- C015. Identify the sources of stress and manage burnout syndrome among healthcare providers
- C016. Teach and supervise nurses and allied health workers
- C017. Plan and develop physical layout of neuro intensive care unit

e. NEPHRO-UROLOGY NURSING

- C01. Appreciate trends and issues related to nephro and urological nursing
- C02. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
- C03. Perform physical, psychosocial & spiritual assessment
- C04. Assist in various diagnostic, therapeutic and surgical interventions
- C05. Provide comprehensive care to patients with nephro and urological conditions
- C06. Describe the various drugs used in nephro and urological conditions and nurses responsibility.
- C07. Demonstrate skill in handling various equipment/gadgets used for patients with nephro and urological conditions
- C08. Appreciate team work & coordinate activities related to patient care
- C09. Practice infection control measures
- C010. Identify emergencies and complications & take appropriate measures
- C011. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
- C012. Discuss the legal and ethical issues in nephro and urological nursing



- C013. Identify the sources of stress and manage burnout syndrome among healthcare providers
- C014. Appreciate the role of alternative system of medicine in the care of patient
- C015. Incorporate evidence based nursing practice and identify the areas of research in the field of nephro and urological nursing
- C016. Teach and supervise nurses and allied health workers
- C017. Design a layout of kidney transplant unit care, dialysis unit
- C018. Develop standards of nephro urological nursing practice

ORTHOPEDIC NURSING

- C01. Appreciate the history and developments in the field of orthopedic nursing
- C02. Identify the psychosocial needs of the patient while providing holistic care
- C03. Perform physical and psychological assessment of patients with orthopedic conditions and disabilities
- C04. Describe the various disease conditions and their management
- C05. Discuss various diagnostic tests required in orthopedic conditions
- C06. Apply nursing process in providing care to patients with orthopedic conditions and those requiring rehabilitation
- C07. Recognize and manage orthopedic emergencies
- C08. Describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation
- C09. Integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopedic conditions
- C010. Counsel the patients and their families with orthopedic conditions
- C011. Describe various orthotic and prosthetic appliances
- C012. Appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation
- C013. Appreciate the role of alternative system of medicine in care of patients with orthopedic conditions
- C014. Incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing
- C015. Recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and



rehabilitation team

C016. Teach orthopedic nursing to undergraduate students and in-service nurses

C017. Prepare a design and layout of orthopedic and rehabilitative unit

g. GASTROENTEROLOGY NURSING

C01. Appreciate trends and issues related to gastroenterology nursing

C02. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions

C03. Participate in national health programs for health promotion, prevention and rehabilitation of patient with gastrointestinal conditions

C04. Perform physical, psychosocial & spiritual assessment

C05. Assist in various diagnostic, therapeutic and surgical procedures

C06. Provide comprehensive care to patients with gastrointestinal conditions

C07. Describe the various drugs used in gastrointestinal conditions and nurses responsibility.

C08. Demonstrate skill in handling various equipment/ gadgets used for patients with gastrointestinal conditions

C09. Appreciate team work & coordinate activities related to patient care

C010. Practice infection control measures

C011. Identify emergencies and complications & take appropriate measures

C012. Assist patients and their family to cope with emotional distress, grief and anxiety and spiritual need

C013. Discuss the legal and ethical issues in GE nursing

C014. Identify the sources of stress and manage burnout syndrome among healthcare providers

C015. Appreciate the role of alternative system of medicine in the care of patient with GI disorders

C016. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing

C017. Teach and supervise nurses and allied health workers

C018. Design a layout of Gastroenterology intensive care unit (GEICU), liver care/transplant unit.

ii. OBSTETRICS AND GYNAECOLOGY NURSING

C01. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women with obstetric and gynaecological conditions.



- CO2. Perform physical, psychosocial, cultural and spiritual assessment.
- CO3. Demonstrate competence in caring for women with obstetrical and gynaecological conditions
- CO4. Demonstrate competence in caring for high risk newborn
- CO5. Identify and manage obstetrical and neonatal emergencies as per protocol.
- CO6. Practice infection control measures.
- CO7. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, gynecological and neonatal care
- CO8. Demonstrate skill in handling various equipments/gadgets used for obstetrical, gynecological and neonatal care
- CO9. Teach and supervise nurses and allied health workers
- CO10. Design a layout of specialty units of obstetrics and gynecology
- CO11. Develop standards for obstetrical and gynecological nursing practice
- CO12. Counsel women and families
- CO13. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrical and gynecology nursing
- CO14. Function as independent midwifery nurse practitioner

iii. PEDIATRIC (CHILD HEALTH) NURSING

- CO1. Apply the nursing process in the care of ill infants to pre adolescents in hospital and community
- CO 2. Demonstrate advanced skills/competence in nursing management of children with medical and surgical problems
- CO 3. Recognize and manage emergencies in children
- CO 4. Provide nursing care to critically ill children
- CO 5. Utilize the recent technology and various treatment modalities in the management of high risk children
- CO 6. Prepare a design for layout and describe standards for management of pediatric units/hospitals
- CO 7. Identify areas of research in the field of pediatric nursing



iv. PSYCHIATRIC (MENTAL HEALTH) NURSING

CO1. Apply the nursing process in the care of patients with mental disorders in hospital and community

CO2. Demonstrate advanced skills/competence in nursing management of patients with mental disorders

CO3. Identify and care for special groups like children, adolescents, women, elderly, abused and neglected people living with HIV/AIDS.

CO4. Identify and manage psychiatric emergencies

CO5. Provide nursing care to critically ill patients with mental disorders

CO6. Utilize the recent technology and various treatment modalities in the management of patients with mental disorders

CO7. Demonstrate skills in carrying out crisis intervention

CO8. Appreciate the legal and ethical issues pertaining to psychiatric nursing

CO9. Identify areas of research in the field of psychiatric nursing

CO10. Prepare a design for layout and describe standards for management of psychiatric units/emergency units/hospitals

CO11. Teach psychiatric nursing to undergraduate students & in-service nurses

COMMUNITY HEALTH NURSING

CO1. Appreciate trends and issues related to community health nursing- reproductive and child health, school health, occupational health, international health, rehabilitation, geriatric and mental health

CO 2. Apply epidemiological concepts and principles in community health nursing practice

CO 3. Perform community health assessment and plan health programme

CO 4. Describe the various components of reproductive and child health programme

CO 5. Demonstrate leadership abilities in organizing community health nursing services by using intersectoral approach

CO 6. Describe the role and responsibilities of community health nurse in various National Health and Family Welfare Programmes

CO 7. Participate in the implementation of various national health and family welfare programme



Indirani College of Nursing

DEVOTION DEDICATION DISCIPLINE

Ariyur, Puducherry - 605 102



- CO 8. Demonstrate competencies in providing family centered nursing care independently
- CO 9. Participate /conduct research for new insights and innovative solutions to health problems
- CO 10. Teach and supervise nurses and allied health workers
- CO 11. Design a layout of sub center /Primary health center/ Community health centre and develop standards for community health nursing practice

Laxmi 4/7/23
IQAC COORDINATOR

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INDIRANI COLLEGE OF NURSING
SVMCH & RC CAMPUS
ARIYUR, PUDUCHERRY.**

04.07.23

PRINCIPAL

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**COURSE OUTCOME - B.SC. NURSING
AS PER THE REVISED SYLLABUS-2021**

S.NO	COURSE
B.SC.NURSING I YEAR- I SEMESTER	
1.	ENGLISH
2.	APPLIED ANATOMY
3.	APPLIED PHYSIOLOGY
4.	APPLIED SOCIOLOGY
5.	APPLIED PSYCHOLOGY
6.	NURSING FOUNDATION-I

S.NO	COURSE
B.SC.NURSING I YEAR- II SEMESTER	
1.	APPLIED BIOCHEMISTRY
2.	APPLIED NUTRITION AND DIETETICS
3.	NURSING FOUNDATION-II
4.	HEALTH/NURSING INFORMATICS AND TECHNOLOGY

S.NO	COURSE
B.SC.NURSING I YEAR- III SEMESTER	
1.	APPLIED MICROBIOLOGY AND INFECTION CONTROL INCLUDING SAFETY
2.	PHARMACOLOGY I
3.	PATHOLOGY I
4.	ADULT HEALTH NURSING I WITH INTEGRATED PATHOPHYSIOLOGY INCLUDING BCLS MODULE

S.NO	COURSE
B.SC.NURSING I YEAR- IV SEMESTER	
1.	PHARMACOLOGY II INCLUDING FUNDAMENTALS OF PRESCRIBING MODULE



2.	PATHOLOGY II AND GENETICS
3.	ADULT HEALTH NURSING II WITH INTEGRATED PATHOPHYSIOLOGY INCLUDING GERIATRIC NURSING + PALLIATIVE CARE MODULE
4.	PROFESSIONALISM, PROFESSIONAL VALUES AND ETHICS INCLUDING BIOETHICS

ENGLISH

- CO1. Identify the significance of Communicative English for healthcare professionals.
- CO2. Apply the concepts and principles of English Language use in professional development such as pronunciation, vocabulary, grammar, paraphrasing, voice modulation, Spelling, pause and silence.
- CO3. Demonstrate attentive listening in different hypothetical situations.
- CO4. Converse effectively, appropriately and timely within the given context and the individual or team they are communicating with either face to face or by other means.
- CO5. Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc.
- CO6. Analyse the situation and apply critical thinking strategies.
- CO7. Enhance expressions through writing skills.
- CO8. Apply LSRW (Listening, Speaking, Reading and Writing) Skill in combination to learn, teach, educate and share information, ideas and results.

APPLIED ANATOMY

- CO1. Describe anatomical terms.
- CO2. Explain the general and microscopic structure of each system of the body.
- CO3. Identify relative positions of the major body organs as well as their general anatomic locations.
- CO4. Explore the effect of alterations in structure.
- CO5. Apply knowledge of anatomic structures to analyze clinical situations and therapeutic applications

APPLIED PHYSIOLOGY

- CO1. Develop understanding of the normal functioning of various organ systems of the body.
- CO2. Identify the relative contribution of each organ system towards maintenance of homeostasis.
- CO3. Describe the effect of alterations in functions.
- CO4. Apply knowledge of physiological basis to analyze clinical situations and therapeutic applications.

APPLIED SOCIOLOGY

- CO1. Identify the scope and significance of sociology in nursing.
- CO2. Apply the knowledge of social structure and different culture in a society in identifying social



needs of sick clients.

C03. Identify the impact of culture on health and illness.

C04. Develop understanding about types of family, marriage and its legislation.

C05. Identify different types of caste, class, social change and its influence on health and health practices.

C06. Develop understanding about social organization and disorganization and social problems in India.

C07. Integrate the knowledge of clinical sociology and its uses in crisis intervention.

APPLIED PSYCHOLOGY

C01. Identify the importance of psychology in individual and professional life.

C02. Develop understanding of the biological and psychological basis of human behaviour.

C03. Identify the role of nurse in promoting mental health and dealing with altered personality.

C04. Perform the role of nurses applicable to the psychology of different age groups.

C05. Identify the cognitive and affective needs of clients.

C06. Integrate the principles of motivation and emotion in performing the role of nurse in caring for emotionally sick client.

C07. Demonstrate basic understanding of psychological assessment and nurse's role.

C08. Apply the knowledge of soft skills in workplace and society.

C09. Apply the knowledge of self-empowerment in workplace, society and personal life.

NURSING FOUNDATION- I

C01. Develop understanding about the concept of health, illness and scope of nursing within health care services.

C02. Apply values, code of ethics and professional conduct in professional life.

C03. Apply the principles and methods of effective communication in establishing communication links with patients, families and other health team members.

C04. Develop skill in recording and reporting.

C05. Demonstrate competency in monitoring and documenting vital signs.

C06. Describe the fundamental principles and techniques of infection control and biomedical waste management.

C07. Identify and meet the comfort needs of the patients.

C08. Perform admission, transfer, and discharge of a patient under supervision applying the knowledge.

C09. Demonstrate understanding and application of knowledge in caring for patients with restricted mobility.



CO10. Perform first aid measures during emergencies.

CO11. Identify the educational needs of patients and demonstrate basic skills of patient education.

APPLIED BIOCHEMISTRY

CO 1: Describe the metabolism of carbohydrates and its alterations.

CO 2: Explain the metabolism of lipids and its alterations.

CO 3: Explain the metabolism of proteins and amino acids and its alterations.

CO 4: Explain clinical enzymology in various disease conditions.

CO 5: Explain acid base balance, imbalance and its clinical significance.

CO 6: Describe the metabolism of hemoglobin and its clinical significance.

CO 7: Explain different function tests and interpret the findings.

CO 8: Illustrate the immunochemistry

APPLIED NUTRITION AND DIETETICS

CO 1: Identify the importance of nutrition in health and wellness.

CO 2: Apply nutrient and dietary modifications in caring patients.

CO 3: Explain the principles and practices of Nutrition and Dietetics.

CO 4: Identify nutritional needs of different age groups and plan a balanced diet for them.

CO 5: Identify the dietary principles for different diseases.

CO 6: Plan therapeutic diet for patients suffering from various disease conditions.

CO 7: Prepare meals using different methods and cookery rules.

NURSING FOUNDATION-II

CO1: Develop understanding about fundamentals of health assessment and perform health assessment in supervised clinical settings

CO 2: Demonstrate fundamental skills of assessment, planning, implementation and evaluation of nursing care using Nursing process approach in supervised clinical settings

CO 3: Assess the Nutritional needs of patients and provide relevant care under supervision

CO 4: Identify and meet the hygienic needs of patients

CO 5: Identify and meet the elimination needs of patient

CO 6: Interpret findings of specimen testing applying the knowledge of normal values

CO 7: Promote oxygenation based on identified oxygenation needs of patients under supervision

CO 8: Review the concept of fluid, electrolyte balance integrating the knowledge of applied physiology

CO 9: Apply the knowledge of the principles, routes, effects of administration of medications in administering medication

CO 10: Calculate conversions of drugs and dosages within and between systems of measurements

CO 11: Demonstrate knowledge and understanding in caring for patients with altered functioning of



sense organs and unconsciousness

CO 12: Explain loss, death and grief

CO 13: Describe sexual development and sexuality

CO 14: Identify stressors and stress adaptation modes

CO 15: Integrate the knowledge of culture and cultural differences in meeting the spiritual needs

CO 16: Explain the introductory concepts relevant to models of health and illness in patient care

HEALTH/NURSING INFORMATICS AND TECHNOLOGY

CO 1: Develop a basic understanding of computer application in patient care and nursing practice.

CO 2: Apply the knowledge of computer and information technology in patient care and nursing education, practice, administration and research.

CO 3: Describe the principles of health informatics and its use in developing efficient health care.

CO 4: Demonstrate the use of information system in health care for patient care and utilization of nursing data.

CO 5: Demonstrate the knowledge of using Electronic Health Records (EHR) system in clinical practice.

CO 6: Apply the knowledge of interoperability standards in clinical setting.

CO 7: Apply the knowledge of information and communication technology in public health promotion.

CO 8: Utilize the functionalities of Nursing Information System (NIS) system in nursing.

CO 9: Demonstrate the skills of using data in management of health care.

CO 10: Apply the knowledge of the principles of digital ethical and legal issues in clinical practice.

CO 11: Utilize evidence-based practices in informatics and technology for providing quality patient care.

CO 12: Update and utilize evidence-based practices in nursing education, administration, and practice.

B.Sc. Nursing – III semester

SECTION: A APPLIED MICROBIOLOGY

CO:1 Identify the ubiquity and diversity of microorganisms in the human body and the environment.

CO:2 Classify and explain the morphology and growth of microbes.



CO:3 Identify various types of microorganisms.

CO:4 Explore mechanisms by which microorganisms cause disease.

CO:5 Develop understanding of how the human immune system counteracts infection by specific and non-specific mechanisms.

CO:6 Apply the principles of preparation and use of vaccines in immunization.

Identify the contribution of the microbiologist and the microbiology laboratory to the diagnosis of infection.

SECTION B: INFECTION CONTROL & SAFETY

CO 1: Develop knowledge and understanding of Hospital acquired Infections (HAI) and effective practices for prevention.

CO 2: Integrate the knowledge of isolation (Barrier and reverse barrier) techniques in implementing various precautions.

CO 3: Demonstrate and practice steps in Hand washing and appropriate use of different types of PPE.

CO 4: Illustrate various disinfection and sterilization methods and techniques.

CO 5: Demonstrate knowledge and skill in specimen collection, handling and transport to optimize the diagnosis for treatment.

CO 6: Incorporate the principles and guidelines of Bio Medical waste management.

CO 7: Apply the principles of Antibiotic stewardship in performing the nurses' role.

CO 8: Identify patient safety indicators and perform the role of nurse in the patient safety audit process.

CO 9: Apply the knowledge of International Patient Safety Goals (IPSG) in the patient care settings.

CO 10: Identify employee safety indicators and risk of occupational hazards.

CO 11: Develop understanding of the various safety protocols and adhere to those protocols.

PATHOLOGY - I

CO 1: Rationalize the various laboratory investigations in diagnosing pathological disorders.

CO 2: Demonstrate the understanding of the methods of collection of blood, body cavity fluids, urine and feces for various tests.

CO 3: Apply the knowledge of genetics in understanding the various pathological disorders.

CO 4: Appreciate the various manifestations in patients with diagnosed genetic abnormalities.

CO 5: Rationalize the specific diagnostic tests in the detection of genetic abnormalities.

CO 6: Demonstrate the understanding of various services related to genetics.



ADULT HEALTH NURSING - I WITH INTEGRATED PATHOPHYSIOLOGY (including BCLS module)

- CO 1: Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of common medical and surgical disorders.
- CO 2: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection.
- CO 3: Identify nursing diagnoses, list them according to priority and formulate nursing care plan.
- CO 4: Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients.
- CO 5: Integrate knowledge of pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.
- CO 6: Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities.
- CO 7: Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.
- CO 8: Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.
- CO 9: Identify the drugs used in treating patients with medical surgical conditions.
- CO 10: Plan and give relevant individual and group education on significant medical surgical topics.
- CO 11: Maintain safe environment for patients and the health care personnel in the hospital.
- CO 12: Integrate evidence-based information while giving nursing care to patients.

B.Sc. Nursing -IV semester

PHARMACOLOGY - II

- CO 1: Explain the drugs used in the treatment of ear, nose, throat and eye disorders.
- CO 2: Explain the drugs used in the treatment of urinary system disorders.
- CO 3: Describe the drugs used in the treatment of nervous system disorders.
- CO 4: Explain the drugs used for hormonal replacement and for the pregnant women during antenatal, intra natal and postnatal period.
- CO 5: Explain the drugs used to treat emergency conditions and immune disorders.
- CO 6: Discuss the role and responsibilities of nurses towards safe administration of drugs used to treat disorders of various systems with basic understanding of pharmacology.
- CO 7: Demonstrate understanding about the drugs used in alternative system of medicine.
- CO 8: Demonstrate understanding about the fundamental principles of prescribing.

PATHOLOGY - II AND GENETICS

- CO 1: Apply the knowledge of pathology in understanding the deviations from normal to abnormal pathology



- CO 2: Rationalize the various laboratory investigations in diagnosing pathological disorders
- CO 3: Demonstrate the understanding of the methods of collection of blood, body cavity fluids, urine and feces for various tests
- CO 4: Apply the knowledge of genetics in understanding the various pathological disorders
- CO 5: Appreciate the various manifestations in patients with diagnosed genetic abnormalities
- CO 6: Rationalize the specific diagnostic tests in the detection of genetic abnormalities.
- CO7: Demonstrate the understanding of various services related to genetics.

ADULT HEALTH NURSING - II WITH INTEGRATED PATHOPHYSIOLOGY including Geriatric Nursing AND PALLIATIVE CARE MODULE

- CO 1: Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of
- CO 2: Selected common medical and surgical disorders.
- CO 3: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of diagnostic tests in the process of data collection.
- CO 4: Identify diagnoses, list them according to priority and formulate nursing care plan.
- CO 5: Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients.
- CO 6: Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.
- CO 7: Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities.
- CO 8: Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.
- CO 9: Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.
- CO 10: Identify the drugs used in treating patients with selected medical surgical conditions.
- CO 11: Plan and provide relevant individual and group education on significant medical surgical topics.
- CO 12: Maintain safe environment for patients and the health care personnel in the hospital.

PROFESSIONALISM, PROFESSIONAL VALUES AND ETHICS INCLUDING BIOETHICS

- CO 1: Describe profession and professionalism.
- CO 2: Identify the challenges of professionalism.
- CO 3: Maintain respectful communication and relationship with other health team members, patients and society.
- CO 4: Demonstrate professional conduct.
- CO 5: Describe various regulatory bodies and professional organizations related to nursing.
- CO 6: Discuss the importance of professional values in patient care.



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CO 7: Explain the professional values and demonstrate appropriate professional values in nursing practice.

CO 8: Demonstrate and reflect on the role and responsibilities in providing compassionate care in the healthcare setting.

CO 9: Demonstrate respect, human dignity and privacy and confidentiality to self, patients and their caregivers and other health team members.

CO 10: Advocate for patients 'wellbeing, professional growth and advancing the profession.

CO 11: Identify ethical and bioethical concerns, issues and dilemmas in nursing and healthcare.

CO 12: Apply knowledge of ethics and bioethics in ethical decision making along with health team members.

CO 13: Protect and respect patient's rights.

Sajeev 4/7/23
IQAC COORDINATOR

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INDIRANI COLLEGE OF NURSING
SVMCH & RC CAMPUS
ARIYUR, PUDUCHERRY.**

H-T-28
PRINCIPAL

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ARIYUR, PUDUCHERRY.**



COURSE OUTCOME- B. SC. NURSING

S. No	COURSES
B. Sc. NURSING I YEAR	
1.	English
2.	Anatomy
3.	Physiology
4.	Nutrition
5.	Biochemistry
6.	Nursing Foundations
7.	Nursing Foundations – Practical
8.	Psychology
9.	Microbiology
10.	Introduction to Computer
B. Sc. NURSING II YEAR	
1.	Sociology
2.	Pharmacology
3.	Pathology & Genetics
	Section A – Pathology
	Section B – Genetics
4.	Medical Surgical Nursing (Adult Including Geriatrics) – I
5.	Medical Surgical Nursing (Adult Including Geriatrics) – I Practical
6.	Community Health Nursing – I
7.	Community Health Nursing – I Practical
8.	Communication & Educational Technology



B. Sc. NURSING III YEAR	
1.	Medical Surgical Nursing (Adult Including Geriatrics) II
2.	Medical surgical Nursing (Adult & Geriatrics) II Practical
3.	Child Health Nursing
4.	Child Health Nursing – Practical
5.	Mental Health Nursing
6.	Mental Health Nursing – Practical
7.	Nursing Research & Statistics
B. Sc. NURSING IV YEAR	
1.	Midwifery & Obstetrical Nursing
2.	Midwifery & Obstetrical Nursing – Practical
3.	Community Health Nursing – II
4.	Community Health Nursing – II Practical
5.	Management of Nursing Services & Education

COURSE: B. SC. NURSING I YEAR

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

1. ENGLISH:

- C01.Speak and write grammatically correct English
- C02.Review of Grammar
- C03.Develop ability to read, understand and express meaningfully the prescribed
- C04.Develop writing skills
- C05.Develop skill in spoken English
- C06.Develop skill in listening comprehension

2. ANATOMY

- C01. Describe the anatomical terms, organization of human body and structure of cell, tissues, membranes and glands
- C02.Describe the structure & function of bones and joints
- C03.Describe the structure and function of muscles
- C04. Describe the structure and function of nervous system



- C05. Explain the structure and function of sensory organs
- C06. Describe the structure and function of circulatory and lymphatic system
- C07. Describe the structure and function of respiratory system
- C08. Describe the structure and function of digestive system
- C09. Describe the structure and function of excretory system
- C010. Describe the structure and function of endocrine system
- C011. Describe the structure and function of reproductive system

3. PHYSIOLOGY

- C01. Describe the physiology of cell, tissues, membranes and glands
- C02. Describe the bone formation and growth and movements of skeletal system
- C03. Describe the muscle movements and tone and demonstrate muscle contraction and tone
- C04. Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves
- C05. Demonstrate reflex action and stimulus
- C06. Describe the physiology of blood and functions of Heart
- C07. Demonstrate blood cell count, coagulation, grouping, Hb, BP and pulse monitoring
- C08. Describe the physiology and mechanisms of respiration
- C09. Demonstrate spirometry.
- C010. Describe the physiology of digestive system
- C011. Demonstrate BMR
- C012. Describe the physiology of excretory system
- C013. Describe the physiology of sensory organs
- C014. Describe the physiology of endocrine glands
- C015. Describe the Physiology of male and female reproductive system
- C016. Describe the physiology of Lymphatic and Immunological system

4. NUTRITION

- C01. Describe the relationship between nutrition & health
- C02. Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates
- C03. Describe the classification, functions, sources and recommended daily allowances (RDA) of fats



C04. Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins

C05. Describe the daily calorie requirement for different categories of people

C06. Describe the classification, functions, sources and recommended daily allowances (RDA) of vitamins

C07. Describe the classification, functions, sources and recommended daily allowances (RDA) of minerals

C08. Describe the sources, functions and requirements of water & electrolytes

C09. Describe the cookery rules and preservation of nutrients

C010. Prepare and serve simple beverages and different types of foods

C011. Describe and plan balanced diet for different categories of people

C012. Describe the various national programmes related to nutrition

C013. Describe the role of nurse in assessment of nutritional status and nutrition education

5. BIOCHEMISTRY

C01. Describe the structure, composition and functions of cell

C02. Differentiate between prokaryote and eukaryote cell

C03. Identify techniques of microscopy

C04. Describe the structure and functions of cell membrane

C05. Explain the metabolism of carbohydrates

C06. Explain the metabolism of Lipids

C07. Explain the metabolism of Amino acids and Proteins

C08. Describe types, composition and utilization of Vitamins & minerals

C09. Describe Immuno-chemistry

6. NURSING FOUNDATION

C01. Describe the concept of health, illness and health care agencies

C02. Explain concept and scope of nursing

C03. Describe values, code of ethics and professional conduct for nurses in India

C04. Explain the admission and discharge procedure

C05. Perform admission and discharge procedure

C06. Communicate effectively with patient, families and team members and maintain effective



- human relations (projecting professional image)
- C07.Appreciate the importance of patient teaching in nursing C08.Explain the concept, uses, format and steps of nursing process
- C09.Documents nursing process as per the format
- C010.Describe the purposes, types and techniques of recording and reporting
- C011.Describe principles and techniques of monitoring and maintaining vital signs
- C012.Monitor and maintain vital signs
- C013.Describe the purpose and process of health assessment
- C014.Describe the health assessment of each body system
- C015.Perform health assessment of each body system
- C016.Identifies the various machinery, equipment, linen and their care
- C017.Describe the basic, physiological and psychosocial needs of patient
- C018.Describe the principles and techniques for meeting basic, physiological and psychosocial needs of patient
- C019.Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient
- C020.Describe principles and techniques for infection control and biomedical waste management in supervised clinical settings
- C021.Explain the principles, routes, effects of administration of medications
- C022.Calculate conversions of drugs and dosages within and between systems of measurements
- C023.Administer drugs by following routes-oral, intradermal, subcutaneous, intramuscular, intravenous, topical and inhalation
- C024. Describe the pre and post-operative care of patients
- C025.Explain the process of wound healing
- C026.Explain the principles and techniques of wound care
- C027.Perform care of wounds
- C028.Explain care of patients having alterations in body functioning
- C029.Explain care of terminally ill patient
- C030.Explain the basic concepts of conceptual and theoretical models of nursing



7. NURSING FOUNDATION – PRACTICAL

- C01. Performs admission and discharge procedure
- C02. Prepare nursing care plan as per the nursing process format
- C03. Communicate effectively with patient, families and team members
- C04. Maintain effective human relations
- C05. Develop plan for patient teaching
- C06. Prepare patient reports
- C07. Presents reports
- C08. Monitor vital signs
- C09. Perform health assessment of each body system
- C10. Provide basic nursing care to patients
- C11. Perform infection control procedures
- C12. Provide care to pre and post- operative patients
- C13. Perform procedures for care of wounds
- C14. Administer drugs
- C15. Provide care to dying and dead
- C16. Counsel and support relatives

8. PSYCHOLOGY

- C01. Describe the history, scope and methods of psychology
- C02. Explain the biology of Human behaviour
- C03. Describe various cognitive processes and their applications
- C04. Describe motivation, emotions, stress, attitudes and their influence on behaviour
- C05. Explain the concepts of personality and its influence on behaviour
- C06. Describe psychology of people during the life cycle
- C07. Describe the characteristics of mentally healthy person
- C08. Explain ego defense mechanisms
- C09. Explain the Psychological assessments and role of nurse

9. MICROBIOLOGY

- C01. Explain concepts and principles of microbiology and their importance in nursing
- C02. Describe structure, classification morphology and growth of bacteria



- C03. Identify micro- organisms
- C04. Describe the methods of infection control
- C05. Identify the role of nurse in hospital infection control programme
- C06. Describe the different disease producing organisms
- C07. Explain the concept of immunity, hyper sensitivity and immunization

10. INTRODUCTION TO COMPUTERS

- C01. Identify & define various concepts used in computer
- C02. Identify application of computer in nursing
- C03. Describe and use the Disk operating system
- C04. Demonstrate skill in the use of MS Office
- C05. Demonstrate skill in using multi-media
- C06. Identify features of computer aided teaching and testing
- C07. Demonstrate use of internet and Email
- C08. Describe and use the statistical packages
- C09. Describe the use of Hospital Management System



COURSE: B. SC. NURSING II YEAR

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

1. SOCIOLOGY

- C01.State the importance of sociology in nursing
- C02. Describe the interrelationship of individual in society and community
- C03. Describe the influence of culture on health and disease
- C04. Identify various social groups and their interactions
- C05. Explain the growth of population in India and its impact on health
- C06. Describe the institutions of family and marriage in India
- C07. Describe the class and caste system and their influence on health and health practices
- C08. Describe the types of communities in India, their practices and the impact on health
- C09. Explain the process of Social Change
- C010. Describe the social system and inter relationship of social organizations
- C011.Explain the nature and process of social control
- C012. Describe the role of the nurse in dealing with social problems in India

2. PHARMACOLOGY

- C01. Describe Pharmaco-dynamics, pharmaco-kinetics, classification and the principles of drug administration
- C02. Explain chemotherapy of specific infections, infestations and nurse's responsibilities
- C03. Describe antiseptics, disinfectants, insecticides and nurse's responsibilities
- C04. Describe the drugs acting on Gastro Intestinal system and nurse's responsibilities
- C05. Describe drugs used on Respiratory Systems and nurse's responsibilities
- C06. Describe drugs used on Urinary system and nurse's responsibilities
- C07. Describe drugs used in de-addiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and Immunosuppression and nurse's responsibilities
- C08. Describe the drugs used on skin and mucous membranes and nurse's responsibilities
- C09. Describe Drugs used on Nervous System and nurse's responsibilities
- C010. Describe Drugs used on Cardio-vascular system and nurse's responsibilities
- C011. Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities
- C012. Demonstrate awareness of the common drugs used in alternative system of medicine



3. PATHOLOGY AND GENETICS

Section A - Pathology

- CO1. Define the common terms used in pathology.
- CO2. Appreciate the deviations from normal to abnormal structure and functions of the body system.
- CO3. Explain Pathological changes in disease conditions of various systems
- CO4. Describe various laboratory tests in assessment and monitoring of disease conditions
- CO5. Describe the laboratory tests for examination of body cavity fluids, transudates and exudates
- CO6. Describe the laboratory tests for examination of urine and feces

SECTION - B GENETICS

- CO1. Explain nature, principles and perspectives of heredity
- CO2. Explain Maternal, prenatal and genetic influences on development of defects and diseases
- CO3. Explain the screening methods for genetic defects and diseases in neonates and children
- CO4. Identify genetic disorders in adolescents and adults
- CO5. Describe the role of nurse in genetic services and counseling

4. MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I

- CO1. Appreciate the trends in medical and surgical nursing
- CO2. Describe the role of a nurse in caring for adult patient in hospital and community
- CO3. Describe the concepts of medical surgical asepsis
- CO4. Describe the common signs, symptoms, problems and their specific nursing interventions
- CO5. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory system
- CO6. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems
- CO7. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardiovascular problems
- CO8. Describe the vascular conditions and its nursing management.
- CO9. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito-urinary systems
- CO10. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive system
- CO11. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system



- C012. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of skin
- C013. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculo- skeletal system
- C014. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of immunological system
- C015. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with communicable Diseases
- C016. Describe the organization and physical set up of operation theatre
- C017. Identify the various instruments and equipments used for common surgical procedures
- C018. Describe the infection control measures in the Operation Theatre
- C019. Describe the role of the nurse in the Operation Theatre

5. MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I

PRACTICAL

General Medical ward

- C01. Provide nursing care to adult patients with medical disorders
- C02. Counsel and educate patients and families

General surgical ward

- C03. Provide pre and post-operative nursing care to adult patients with surgical disorders
- C04. Counsel and educate patients and families

Cardiology Ward

- C05. Provide nursing care to patients with cardiac disorders
- C06. Counsel and educate patients and families

Skin and communicable diseases

- C07. Identify skin problems
- C08. Provide nursing care to patients with skin disorders & communicable diseases
- C09. Counsel and educate patients and families

Orthopaedic Ward

- C010. Provide nursing care to patients with musculo-skeletal disorders
- C011. Counsel and educate patients and families

Operation Theatre

- C012. Identify instruments used in common operations
- C013. Participate in infection control practices in the operation theatre
- C014. Set-up the table/ trolleys for common operative procedures
- C015. Assist in giving anesthesia



C016. Assist in the operative procedures

C017. Provide perioperative nursing care

6. COMMUNITY HEALTH NURSING - I

C01. Describe concept and dimensions of health

C02. Describe determinants of health

C03. Describe the concept, scope, uses methods and approaches of epidemiology

C04. Describe Epidemiology and nursing management of common communicable diseases

C05. Describe Epidemiology and nursing management of common Non-communicable diseases

C06. Describe the concepts and scope of demography

C07. Describe methods of data collection, analysis and interpretation of demographic data

C08. Identify the impact of population explosion in India

C09. Describe the methods of population control

7. COMMUNITY HEALTH NURSING I - PRACTICAL

C01. Build and maintain rapport

C02. Identify demographic characteristics, health determinants and community health resources

C03. Diagnose health needs of individual and families

C04. Provide primary care in health center.

C05. Counsel and educate individual, family and community

8. COMMUNICATION & EDUCATIONAL TECHNOLOGY

C01. Describe the communication process

C02. Identify techniques of effective communication

C03. Establish effective inter-personal relations with patients, families & co-workers

C04. Develop effective human relations in context of nursing

C05. Develop basic skill of counseling and guidance

C06. Describe the philosophy & principles of education

C07. Explain the teaching learning process

C08. Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings

C09. Prepare and use different types of educational media effectively

C010. Prepare different types of questions for assessment of knowledge, skills and attitudes

C011. Teach individuals, groups, and communities about health with their active participation



COURSE: B. SC. NURSING III YEAR

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

1. MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)- II

- CO1. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear Nose and Throat
- CO2. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of Eye.
- CO3. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and nursing management of patients with neurological disorders
- CO4. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and nursing management of patients with disorder of female reproductive system
- CO5. Describe the concept of reproductive health and family welfare programme
- CO6. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with burns, reconstructive and cosmetic surgery
- CO7. Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with oncological conditions
- CO8. Describe organization of emergency and disaster care services
- CO9. Describe the role of nurse in disaster management
- CO10. Describe the role of nurse in management of common emergencies
- CO11. Explain the concept and problems of ageing
- CO12. Nursing care of the elderly
- CO13. Describe organization of critical care units
- CO14. Describe the role of nurse in management of patients in critical care units
- CO 15. Describe the etiology, pathophysiology, clinical manifestations, assessment, diagnostic measures and management of patients with occupational and industrial health disorder

2. MEDICAL SURGICAL NURSING (ADULT AND GERIATRICS)- II- PRACTICAL

ENT

- CO1. Provide care to patients with ENT disorders
- CO2. Counsel and educate patient and families

Ophthalmology

- CO3. Provide care to patients with Eye disorders
- CO4. Counsel and educate patient and families,



Neuro

C05. Provide care to patients with neurological disorders

C06. Counsel and educate the patient and families

Gynecology ward

C07. Provide care to patients with gynecological disorders

C08. Counsel and educate patient and families

Burns Unit

CO 9. Provide care to patients with Burns

CO10. Counsel and educate patient and families

Oncology Unit

CO11. Provide care to patients with cancer

CO12. Counsel and educate patient and families

Critical care unit (Neuro, general ICU)

CO13. Provide care to critically ill patients

CO14. Counsel patient and families for grief and bereavement

Casualty/ Emergency

CO15. Provide care to patients in emergency and disaster situation

CO16. Counsel patient and families for grief and bereavement

3. CHILD HEALTH NURSING

CO1. Explain the modern concept of child care & principles of child health nursing

CO2. Describe national policy programs and legislation in relation to child health and welfare

CO3. List major causes of death during infancy, early & late childhood

CO4. Describe the major functions and role of the paediatric nurse in caring for a hospitalized child.

CO5. Describe the principles of child health nursing

CO6. Describe the normal growth & development of children at different ages

CO7. Identify the needs of children at different ages & provide parental guidance

CO8. Identify the nutritional needs of children at different ages and ways of meeting the needs

CO9. Appreciate the role of play for normal & sick children

CO10. Appreciate the preventive measures and strategies for children

CO11. Provide care to normal & high risk neonates

CO12. Perform neonatal resuscitation

CO13. Recognize and manage common neonatal problems

CO14. Provide nursing care in common childhood diseases

CO15. Identify measures to prevent common childhood diseases including immunization

CO16. Manage the child with behavioural & social problems



C017. Identify the social & welfare services for challenged children

4. CHILD HEALTH NURSING – PRACTICAL

Paediatric Medicine Ward

C01. Provide nursing care to children with various medical disorders

C02. Counsel and educate parents

Paediatric Surgery Ward

C03. Recognize different paediatric surgical conditions/malformations

C04. Provide pre and post-operative care to children with common paediatric surgical conditions/malformation

C05. Counsel and educate parents

Paediatric OPD/ Immunization room

C06. Perform assessment of children: Health Developmental and Anthropometric

C07. Perform immunization

C08. Give Health Education/Nutritional Education

Paediatric medicine and surgery ICU

C09. Provide nursing care to critically ill children

5. MENTAL HEALTH NURSING

C01. Describe the historical development & current trends in mental health nursing

C02. Describe the epidemiology of mental health problems

C03. Describe the National Mental Health Act, programmes and mental health policy

C04. Discuss the scope of mental health nursing

C05. Describe the concept of normal & abnormal behavior

C06. Define the various terms used in mental health nursing

C07. Explain the classification of mental disorders

C08. Explain psycho dynamics of maladaptive behaviour

C09. Discuss the etiological factors, psychopathology of mental disorders

C010. Explain the principles and standards of Mental health Nursing

C011. Describe the conceptual models of mental health nursing

C012. Describe the nature, purpose and process of assessment of mental health status

C013. Identify therapeutic communication techniques

C014. Describe therapeutic relationship

C015. Describe therapeutic impasse and its intervention

C016. Explain treatment modalities and therapies used in mental disorders and role of the nurse



- C017. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders
- C018. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with mood disorders
- C019. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatization disorders
- C020. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders
- C021. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with spersonality, Sexual and Eating disorders
- C022. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency
- C023. Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management organic brain disorders
- C024. Identify psychiatric emergencies and carry out crisis intervention
- C025. Explain legal aspects applied in mental health settings and role of the nurse
- C026. Describe the model of preventive psychiatry
- C027. Describe community Mental Health services and role of the nurse

6. MENTAL HEALTH NURSING – PRACTICAL

Psychiatric OPD

- C01. Assess patients with mental health problems
- C02. Observe and assist in therapies
- C03. Counsel and educate patient and families
- C04. Assessment of children with various mental health problems
- C05. Counsel and educate children, families and significant others

Child Guidance clinic

- C01. Assess patient with mental health problems
- C02. To provide nursing care for patients with various mental health problems
- C03. Assist in various therapies
- C04. Counsel and educate patients, families and significant others

Inpatient ward

- C01. Assess patient with mental health problems
- C02. To provide nursing care for patients with various mental health problems



CO3. Assist in various therapies

CO4. Counsel and educate patients, families and significant others

Community Psychiatry

CO1. To identify patients with various mental disorders

CO2. To motivate patients for early treatment and follow up

CO3. Counsel and educate patient and family and community

7. NURSING RESEARCH AND STATISTICS

CO1. Describe the concept of research, terms, need and areas of research in nursing

CO2. Explain the steps of research process

CO3. Identify and state the research problem and objectives

CO4. Review the related literature

CO5. Describe the research approaches and designs

CO6. Explain the sampling process

CO7. Describe the methods of data collection

CO8. Analyze, Interpret and summarize the research data

CO9. Explain the use of statistics, scales of measurement and graphical presentation of data

CO10. Describe the measures of central tendency and variability and methods of correlation

CO11. Communicate and utilize the research findings

Course: B. Sc. NURSING III YEAR

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

1. MIDWIFERY AND OBSTETRICAL NURSING

CO1. Recognize the trends and issues in midwifery and obstetrical nursing

CO2. Describe the anatomy and physiology of female reproductive system

CO3. Describe the diagnosis and management of women during antenatal period

CO4. Describe the physiology and stages of labour

CO5. Describe the management of women during intranatal period

CO6. Describe the physiology of puerperium

CO7. Describe the management of women during postnatal period

CO8. Describe the assessment and management of normal neonate

CO9. Describe the identification and management of women with high risk pregnancy

CO10. Describe management of abnormal labour and obstetrical emergencies

CO11. Describe management of postnatal complications



C012. Identify the high risk neonates and their nursing management

C013. Describe indication, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers

C014. Appreciate the importance of family welfare programme

C015. Describe the methods of contraception and role of nurse in family welfare programme

2. MIDWIFERY AND OBSTETRICAL NURSING - PRACTICAL

Antenatal clinic/OPD

C01. Assessment of pregnant women

Labour room O.T

C02. Assess woman in labour

C03. Carry out pervaginal examinations

C04. Conduct normal deliveries

C05. Perform episiotomy and suture it

C06. Resuscitate newborns

C07. Assist with caesarean sections, MTP and other surgical procedures

Postnatal ward

C08. Provide nursing care to postnatal mother and baby

C09. Counsel and teach mother and family for parenthood

Newborn nursery

C011. Provide nursing care to newborn at risk

Family planning clinic

C0 12. Counsel for and provide family welfare services

3. COMMUNITY HEALTH NURSING - II

C01. Define concepts, scope, principles and historical development of Community Health and community health nursing

C02. Describe health plans, policies, various health committees and health problems in India

C03. Describe the system of delivery of community health services in rural and urban areas

C04. List the functions of various levels and their staffing pattern

C05. Explain the components of health services

C06. Describe alternative systems of health promotion and health maintenance

C07. Describe the chain of referral system

C08. Describe Community Health Nursing approaches and concepts

C09. Describe the roles and responsibilities of Community health nursing personnel



CO10. Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health

CO11. Describe national health and family welfare programmes and role of a nurse

CO12. Describe the various health schemes in India

CO 13. Explain the roles and functions of various national and international health agencies

4. COMMUNITY HEALTH NURSING II - PRACTICAL

CO 1. Identify community profile

CO2. Identify prevalent communicable and noncommunicable diseases

CO3. Diagnose health needs of Individual, families and community

CO4. Plan, provide and evaluate care

CO5. Participate in school health program

CO6. Participate in national health programs

CO7. Organize group for self help and involve clients in their own health activities

CO8. Provide family welfare services

CO9. Counsel and educate individual, family and community

CO10. Collect vital health statistics

CO11. Maintain records & reports

5. MANAGEMENT OF NURSING SERVICES AND EDUCATION

CO1. Explain the principles and functions of management

CO2. Describe the elements and process of management

CO3. Describe the management of nursing services in the hospital and community

CO4. Describe the concepts, theories and techniques of organizational behavior and human relations

CO5. Participate in planning and organizing in -service education program

CO6. Describe management of nursing educational institutions

CO7. Describe the ethical and legal responsibilities of a professional nurse

CO8. Explain the nursing practice standards

CO9. Explain the Various opportunities for professional advancement.

Dayan 4/7/23

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COURSE OUTCOME - P.B.B.SC. NURSING

S. No	Course
P.B.B.Sc. Nursing I Year	
1.	Nursing Foundation
2.	Nutrition & Dietetics
3.	Biochemistry and Biophysics
4.	Psychology
5.	Microbiology
6.	Maternal Nursing
7.	Child Health Nursing
8.	Medical & Surgical Nursing
9.	English (Qualifying)
P.B.B.Sc. Nursing II Year	
1.	Sociology
2.	Community Health Nursing
3.	Mental Health Nursing
4.	Introduction to Nursing Education
5.	Introduction to Nursing Administration
6.	Introduction to Nursing Research & Statistics

COURSE: P.B.B.SC. NURSING I YEAR

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

1. NURSING FOUNDATION

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



2. NUTRITION & DIETETICS

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

3. BIOCHEMISTRY & BIOPHYSICS

- CO 1. Identify the basic principles of Biochemistry and Biophysics
- CO 2. Synthesize the knowledge of these principles in various nursing situations

4. PSYCHOLOGY

- CO 1. Apply psychological principles while performing nursing duties
- CO 2. Distinguish the psychological processes during health and sickness
- CO 3. Analyze own behavior patterns
- CO 4. Tabulate the psychological needs of the patients for planning nursing care
- CO 5. Participate in psychometric assessment of the client

5. MICROBIOLOGY

- CO 1. Identify common disease producing micro-organisms
- CO 2. Explain the basic principles of microbiology and their significance in health and disease
- C 3. Demonstrate skill in handling specimens
- CO 4. Explain various methods of dis-infection and sterilization
- CO 5. Identify the role of the nurse in hospital infection control system

6. MATERNAL NURSING

- CO 1. Describe the physiology of pregnancy, labour and puerperium.
- CO 2. Manage normal pregnancy, labour and puerperium.
- CO 3. Explain the physiology of lactation and advice on management of breast feeding.
- CO 4. Be skilled in providing pre and post-operative nursing care in obstetric conditions.
- CO5. Identify and manage high risk pregnancy, labor, puerperium and neonates including appropriate referrals.
- CO 6. Propagate the concept and motivate acceptance of family planning methods.
- CO 7. Teach, guide and supervise auxiliary midwifery personnel.



7. CHILD HEALTH NURSING

- CO 1. Explain the modern concepts of child care and the principles of child health nursing.
- CO 2. Describe the normal growth and development of children at different ages.
- CO 3. Manage sick as well as healthy neonates and children.
- CO 4. Identify various aspects of preventive paediatric nursing and apply them in providing nursing care to children in hospital and community

8. MEDICAL AND SURGICAL NURSING

- CO 1. Explain relevant anatomy and physiology of various systems of the body.
- CO 2. Explain pathophysiology of various disorders.
- CO 3. Explain the actions, side effects and nursing implications in administering drugs for various disorders.
- CO 4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
- CO 5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
- CO 6. Assist the patients and their families in identifying and meeting their own health needs.
- CO 7. Appreciate the role of the nurse in the medical surgical health team.

9. ENGLISH

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

COURSE: P.B.B.SC. NURSING II YEAR

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

1. SOCIOLOGY

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

2. COMMUNITY HEALTH NURSING

- CO 1. Explain the concept of various factors contributing to health of individual, family and community.
- CO 2. Identify the role of community health nurse.
- CO 3. Describe national health care delivery system.



CO 4. Describe epidemiological methods and principles of prevention and control of illness in the community.

CO 5. Identify the role of personnel working in the community health set up.

CO 6. Plan the work of community health nurse and supervise and train health workers

3. MENTAL HEALTH NURSING

CO 1. Identify and describe the philosophy and principles of mental health nursing

CO 2. Describe the historical development of mental health and psychiatric nursing

CO 3. Classify mental disorders

CO 4. Develop skill in history taking and performing mental status examination

CO 5. Describe etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders

CO 6. Manage the patients with various mental disorders

CO 7. Communicate therapeutically with patients and their families

CO 8. Identify role of the nurse in preventive psychiatry

CO 9. Identify the legal aspects in practice of mental health and psychiatric nursing

4. INTRODUCTION TO NURSING EDUCATION

CO 1. Describe the philosophy and principles of education

CO 2. Explain the teaching – learning process and curriculum development

CO 3. Develop the ability to teach, using various methods and media

CO 4. Describe the process of assessment

CO 5. Describe the administrative aspects of school of nursing

CO 6. Participate in planning and organizing an in-service education programme

CO 7. Develop basic skill of counseling and guidance

5. INTRODUCTION TO NURSING SERVICE ADMINISTRATION

CO 1. Identify the principles of administration

CO 2. Describe the principles and techniques of supervision

CO 3. Explain the principles and methods of personnel management

CO 4. Explain the principles of budgeting

CO 5. Organize and manage a nursing unit effectively

CO 6. Identify dynamics of organizational behaviour, styles and functions of effective leadership



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6. INTRODUCTION TO NURSING RESEARCH AND STATISTICS

- CO 1. Define the terms and concepts of nursing research
- CO 2. Identify needs and scope of nursing research
- CO 3. Identify and define a research problem
- CO 4. Locate and list sources of literature for a specific study
- CO 5. Describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method
- CO 6. Develop tool for data collection
- CO 7. Enumerate steps of data analysis and present data summary in tabular form
- CO 8. Use descriptive and co-relational statistics in data analysis
- CO 9. Conduct a group research project

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