FELLOWSHIP IN ONCOLOGY CARE NURSING

ABOUT THE COURSE:

Malla Reddy School of Nursing Science and Technology believes that registered nurses need to be trained in Oncology Care Nursing in clinical and community settings in order to provide competent care to cancer patients and enhance their quality of life. Nurses play vital role in prevention, promotion, curative, rehabilitative and palliative care. Expanding roles of nurses and advances in technology necessitate additional training to prepare them for effective participation in providing such vital role. This Fellowship program is designed for nurses to enhance their knowledge and skills towards oncology care nursing.

This fellowship course is developed to help the student to recognize the etiology, pathophysiology, symptomatology, diagnostic measures, and management of patients with malignant conditions affecting various systems. The course will further help the graduates to acquire knowledge and skills in providing comprehensive nursing care to such patients and attempts to explore and expand nursing knowledge through nursing research.

OBJECTIVES:

The graduates of fellowship students will be able to:

- ➤ Relate the knowledge of basic sciences related to oncology care nursing in various clinical settings.
- ➤ Enlighten the properties of cancer cells, etiology, prevention, screening, and early detection of cancer.
- > Identify and assist in the diagnostic measures in various malignant conditions.
- ➤ Recognize the role of nurses in various therapies used for patients with oncological disorders.
- Lategorize nursing processes in providing comprehensive care to cancer patients.
- ➤ Recognize the nutritional problems of cancer patients and their management.
- ➤ Communicate effectively with patients and families of cancer patients.

ELGIBILITY

• Registered BSc Nursing in India or equivalent.

DURATION: 52 Weeks or One Academic Year

COURSE DESCRIPTION

The course is designed to prepare registered B.Sc (N) with specialized knowledge, skills, and attitude in providing advanced quality care to oncology patients, their families, and communities at primary, secondary, and tertiary levels of care.

EVALUATION

The examination will be conducted by school of nursing science and technology, Malla Reddy Vishwavidhyapeeth deemed to be university.

CRITERIA TO APPEAR THE EXAM

- 80% attendance in theory
- 100% attendance in practical

CRITERIA TO PASS

- In order to pass a candidate should obtain 50% in theory and 50% in practical separately
- A candidate should get 50% in internal assessment.

AWARD OF CERTIFICATE

Certificate will be awarded by Malla Reddy Vishwavidhyapeeth deemed to be university

S.No	COURSE	SUBJECTS	THEORY	LAB	CLINICAL	TOTAL
	CODE					
1		Basic Nursing	60	20	120	200
		For Oncology				
		(No Exam)				
2		Oncology	80	20	300	400
		Nursing – I				
3		Oncology	80	20	300	400
		Nursing – II				

BASIC NURSING FOR ONCOLOGY CARE

Theory: 60 hours Lab: 20 hours

Practical: 120 hours

Unit	Hour s	Learning objectives	Content	Teaching Learning	Assessment Methods
		•		Activity	
Unit I	10	Review psychological principles relevant to healthcare	Psychology Review Individual differences Learning, motivation, attention, &perception Emotions Human behavior& needs in crisis Stress & copping in crisis situations Leadership Communication & IPR Counseling Attitudes & humanizing care	Lectures, group discussions, role plays	Written test, group presentation , reflective journaling
Unit II	10	Understand sociological aspects in health and community	Sociology Review Social organization & community resources Leadership roles in community Family and family releation ships Socio cultural influences	Case studies, community visits, seminar	Viva, case study analysis
Unit III	10	Review basic microbiologi cal concepts relevant to nursing	Microbiology Review Immunity Infection Principles of asepsis, sterilization & disinfection Diagnostic tests in microbiology & related nurses' responsibility Standard safety measures & biomedical waste management	Lab demonstrati ons, simulations, lectures	Practical exam, quiz
Unit IV	10	Review structure and function of human body	Applied Anatomy & Physiology ➤ Review • Cell structure and physiology ✓ Normal cell	Diagram practice, case-based learning,	Written exam, OSCE (Objective

		systems	 ✓ Malignant cell Neurological system Respiratory system Blood and lymphatics Cardiovascular system Gastro intestinal system Endocrine system Musculoskeletal system Genitourinary system Reproductive system Sensory systemDocumentation and Instruction to be taken while taking opioids Nurses role while administering opioids and observing the client for side-effects. 	multimedia teaching	Structured Clinical Examinatio n)
Unit V	10	Understand pharmacologi cal concepts and nurse's role in drug administratio n	 Pharmacology Review Pharmacokinetics Analgesics Sedatives and Narcotics Antibiotics, antiseptics Drug reaction & toxicity Drugs used in cancer chemotherapy Blood and blood components Principles of drug administration, role of nurse and care of drugs 	Drug chart review, medication demonstrati ons	MCQ test, prescription analysis
Unit VI	10	Enhance communicati on and interpersonal relationship skills	 Communication skills and IPR Process and methods Establishing and maintaining good IPR & communication with family, staff and colleagues Multidisciplinary team and role of nurse Breaking bad news Guidance and counseling 	Role play, peer interaction, audio- visual aids	Role play evaluation, peer feedback, oral presentation

ONCOLOGY CARE NURSING – I

Theory: 80 hours Lab: 20 Hours Practical: 300 hours

Unit	Hour	Learning	Content	Teaching	Assessment
	S	objectives	Content	Learning Activity	Methods
Unit - I	10	Understand types of brain tumors and nursing care approaches	Tumors of the brain and central Nervous System - Gliomas, pituitary tumors - Meningioma, pineal tumors - Metastasis brain tumor - Nursing Care of patients with brain tumors undergoing radiation therapy / chemotherapy / surgery	Case discussions, clinical exposure, videos	Written test, case study analysis
Unit - II	15	Learn types, treatment, and nursing care in head and neck cancers	 Head & Neck Cancers Cancers of Nasopharynx, Paranasal sinuses, oral cavity, and oropharynx Cancers of larynx and hypopharynx Tumors of salivary, orbit & eye Neck dissections Reconstructive surgery Nursing care of patients undergoing head & neck surgery Nurses' role in rehabilitation 	Simulation, surgical video review, role plays	OSCE, oral exam
Unit - III	15	Gain foundationa l understandi ng of oncology nursing and cancer biology	Introduction to oncology nursing; Biology of cancer Etiology of care Epidemiology of cancer Warning signs Pathogenesis of cancer Staging of tumors Cancer prevention, screening and Early detection and nurses role Standards of oncology nursing practice principle of cancer management Role and responsibility of oncology nurse	Lectures, interactive Q&A, group work	MCQs, group presentation

Unit	20	Understand diagnostic procedures and nurses' responsibilit ies	 Cancer care setting and role of nurse in different settings Nursing process Techniques of Diagnosis Fine needle Aspiration Cytology Biopsies Endoscopy Laproscopy Histopathology Cytology Computed tomography MRI Radio nuclide imaging Ultra sound Functional and metabolic imaging Using radiotopes Pap smear Nurses responsibility in diagnostic measures 	Diagnostic tool demonstrations, hospital visits	Objective structured assessments , quiz
Unit	20	Learn principles and nursing care in various treatment modalities	 Principles and techniques of radiotherapy Nature of radioactivity Radio active elements Radio biology Types and sources Principles of radiation protection Radiotherapy- brachytherapy LDR,HDR, interstitial implantation Teletherapy / treatment planning/ stimulation Adverse effect and their management Nurse role Chemotherapy Principle and classification of chemotherapeutics Safe handling and administration Side effects, complications and management 	Role play, group seminars, expert sessions, clinical demonstrati ons	Practical exam, written test, case-based discussion

Future directions and advances
Nurses role
Surgery:
Principles of surgical oncology
Special surgical techniques
Palliative Surgery
Pre operative & postoperative
nursing care
Care of flaps and amputations
Future directions and advances
Biotherapy:
Diomerupy.
Major biologic response
modifiers
Nurses' role in Biotherapy
Monoclonal antibodies &
immunomodulating agents
New approaches
Cone thousant Immune toxin
• Gene therapy, Immuno – toxin
therapy and Vaccines
AIDS related Malignancies

ONCOLOGY CARE NURSING – II

Theory: 80 hours Lab: 20 Hours Practical: 300 hours

Unit	Hour s	Learning objectives	Content	Teaching Learning Activity	Assessment Methods
Unit-I	08	Understand types of lung and mediastinal tumors and related nursing care	 Tumors of Lung and Mediastinum Small cell lung cancer & Nonsmall cell lung cancer Neoplasms of the mediastinum and thymic neoplasms Nursing care of patients undergoing radiation therapy / chemotherapy / surgery Nursing implications in intercostal drainage 	Clinical demonstrati ons, case studies	Case study discussion, MCQs
Unit- II	08	Learn screening, diagnosis,	 Cancer of the Breast Screening, diagnosis & staging Clinical features 	Breast models, role play,	OSCE, written test

		treatment, and care	 Primary tumors of the breast Treatment of breast cancer Nursing care of patients undergoing surgery / radiotherapy/chemotherapy Nurses' role in rehabilitation 	counseling simulation	
Unit - III	10	Identify GI cancers and nursing managemen t	 Gastrointestinal Tumor Oesophagus, stomach, liver, pancreas, and rectal cancers Nursing care of patients undergoing surgery/ radiotherapy/chemotherapy Care of ostomies 	Ostomy care demo, video teaching	Practical assessment, scenario- based questions
Unit- IV	08	Understand GU cancers and nursing responsibilit ies	 Genitourinary Cancers Cancers of kidney, ureter, bladder, prostate, testis & penis Nursing care of patients undergoing surgery/radiotherapy/chemothera py 	Visual lectures, patient care plans	Case presentation , viva
Unit- V	08	Learn types, diagnosis, and nursing care	 Gynaecologic Cancers Cancer of cervix, endometrium, ovary, vulva & vagina Nursing care of patients undergoing surgery/radiotherapy/chemothera py 	Simulation labs, patient stories	MCQs, reflective writing
Unit- VI	08	Understand endocrine cancers and treatment	 Cancer of Thyroid & Adrenal Glands Epidemiology, etiology, pathology, diagnosis & staging, and treatment of cancer of Thyroid, Parathyroid & Adrenal glands. Nursing care of patients undergoing surgery Nursing implications in Radio Iodine therapy 	Video case review, discussion	Written test, Q&A
Unit- VII	05	Identify types and managemen t	 Skin Cancers Sarcoma of soft tissue and bone Basal cell carcinoma Squamous cell carcinoma Malignant melanoma Nursing care of patients undergoing surgery / radiotherapy / chemotherapy 	UV exposure prevention demo, patient education	Quiz, role play

Unit- VIII	12	Understand hematologic malignancie s and nursing intervention s	 Leukemia & Lymphoma Acute Leukemia Chronic Leukemia Hairy cell Leukemia Myelodysplastic Syndrome Hodgkin's and Non-Hodgkin's Lymphoma Nursing care in all types of leukemia & Lymphoma Nursing implications in bone marrow depression 	Flowcharts, lab interpretati on	Clinical scenario exam
Unit- IX	05	Learn etiology, features, and nursing care	 Multiple Myeloma Etiology & risk factors Clinical features, diagnosis & staging Treatment & prognosis Management of complications Nursing management 	Chart reviews, symptom managemen t workshops	MCQs, care plan submission
Unit-X	08	Understand transplant processes and nursing care	 Bone Marrow & Stem Cell Transplantation (BMT & PBST) Indications, procedure, principles & process of transplantation Associated complications and management Nursing implications in BMT & PBST 	Expert talks, process videos	Viva, case- based quiz
Unit- XI	08	Identify bone and soft tissue cancers and their managemen t	Bone Cancers & Cancers & Soft Tissue Sarcoma Osteosarcoma, Chondrosarcoma Fibrosarcoma, Ewing's sarcoma, Soft tissue sarcomas Nursing care of patients undergoing surgery/radiotherapy/chemothera py Nurses' role in rehabilitation	Surgical case studies, group discussion	Written test, group presentation
Unit- XII	15	Recognize and manage emergencies in cancer care	 Oncological Emergencies Disseminated intravascular coagulation (DIC), hypercalcemia Malignant pleural effusion Neoplastic cardiac tamponade & septic shock, Spinal cord compression 	Emergency drills, simulation labs	OSCE, emergency response evaluation

			 Superior vena cava syndrome Metabolic emergency Surgical emergency Urological emergency Nurses role in managing oncologic emergencies 		
Unit-	12	Understand	Pediatric Malignancies	Pediatric	Pediatric
XIII		pediatric	 Leukemia, Lymphoma, 	mannequin,	case review,
		cancer types	Neuroblastoma	caregiver	viva
		and	 Wilm's tumor, Soft tissue 	interviews	
		specialized	sarcoma, Retinoblastoma		
		nursing care	Nursing Management of children		
			with Pediatric Malignancies		

ONCOLOGICAL CARE AT END STAGE

Unit	Hour	Learning	Content	Teaching	Assessment
	S	objectives		Learning	Methods
				Activity	
Unit-I		Understand	End stage care	video	Reflective
		philosophy	 Definition & Scope, Philosophy 	demonstrati	journals,
		and	 Concept & Elements of 	ons, patient	case-based
		elements of	Palliative Care	narratives	discussion
		palliative	 Global & Indian perspective of 		
		care and the	Palliative Care		
		nurse's role	 Quality of life issues 		
			 Communication Skill 		
			 Nursing perspective of Palliative 		
			Care & its elements		
			 Home care 		
			 Hospice care 		
			 Role of nurse in palliative care 		
Unit-		Address	Impact of Cancer on Sexuality	Role play,	Case
II		sexual	 Effect of Radiotherapy/ 	peer	scenario
		health and	Chemotherapy/Surgery on	discussions,	evaluation,
		counseling	Sexuality of the cancer patient	expert	OSCE
		in cancer	 Nursing management of cancer 	session	
		care	patients experiencing sexual		
			dysfunction		
			 Sexual counseling 		
Unit -		Support	Psychosocial, Spiritual & Ethical	Group	Presentation
III		psychosocia	Issues	work,	s, essay
		1 and	 Psychological reactions of 	cultural	writing, role
		spiritual	patients with cancer	care	play
		needs,	 Spiritual/cultural care & needs 	planning,	

	address ethical	Ethics - definition, principles, euthanasia Counseling skills, family.	ethical debates	
	concerns	 Counseling skills, family counseling Nursing interventions of psychosocial problems 		
Unit-	Provide	Care of the Dying Patient	Hospice	Practical
IV	compassi	J	visit,	exam,
	ate care to	 Grief and grieving process 	simulation	reflective
	terminally	 Bereavement support 	with	assessment,
	ill patient	s	standardize	group
	and their		d patients,	discussion
	families		video case	
			analysis	

Research Activity:

An independent research is to be carried out by the student.

ESSENTIAL ONCOLOGY NURSING SKILLS

I. Procedures Observed

- 1. Chemotherapy Administration (IV, oral, intrathecal)
- 2. Radiation Therapy Procedures (External Beam, Brachytherapy)
- 3. Bone Marrow Aspiration & Biopsy
- 4. Central Venous Access Device Insertion (e.g., PICC, Port-a-Cath)
- 5. Oncological Surgeries (e.g., Mastectomy, Colectomy, Nephrectomy)
- 6. Imaging Studies (e.g., PET scan, CT, MRI for staging)
- 7. Stem Cell/Bone Marrow Transplant Procedures
- 8. Palliative Care Interventions
- 9. Hospice Care and End-of-Life Discussions

II. Procedures Assisted

- 1. Preparation and Monitoring for Chemotherapy
- 2. Handling and Disposal of Cytotoxic Drugs
- 3. Central Line Care (e.g., Flushing, Dressing Change)
- 4. Management of Radiation Therapy Side Effects

- 5. Administration of Antiemetics and Supportive Therapies
- 6. Blood Transfusion for Anemia or Thrombocytopenia
- 7. Paracentesis and Thoracentesis
- 8. Pain Management and Opioid Titration
- 9. Nutritional Therapy (Enteral/Parenteral Feeding)
- 10. Psychosocial Support and Counseling
- 11. Monitoring for Tumor Lysis Syndrome
- 12. Infection Control for Immunocompromised Patients
- 13. Management of Oncological Emergencies:
 - Spinal cord compression
 - o Superior vena cava syndrome
 - o Febrile neutropenia

III. Procedures Performed

1. Assessment & Monitoring

- Initial and Ongoing Patient Assessment
- Pain and Symptom Assessment
- Skin and Oral Mucosa Assessment (for mucositis)
- Monitoring for Side Effects of Chemotherapy and Radiation
- Vital Signs, Intake/Output Monitoring
- Neutropenic Precautions
- Fall Risk and Pressure Ulcer Prevention

2. Patient Care Management

- Administration of Oral Chemotherapeutic Agents
- Care of Patients on Immunosuppressive Therapy
- IV Therapy: Medication Administration, Fluid Management
- Nutritional Support: TPN, Tube Feeding, Monitoring Intake
- Education on Self-Care, Side Effects, and Medication Compliance
- Teaching on Use and Care of Central Venous Devices
- Coordinating Multidisciplinary Care (Nutrition, Social Work, Palliative Team)

3. Symptom Management

- Management of Nausea, Vomiting, Diarrhea, and Constipation
- Management of Cancer-related Fatigue
- Wound and Ostomy Care (e.g., for post-surgical oncology patients)
- Skin Care during Radiation Therapy
- Oral Care for Mucositis/Stomatitis
- Management of Lymphedema

4. Infection Prevention

- Aseptic Technique in All Procedures
- Strict Hand Hygiene and PPE Usage
- Safe Handling and Disposal of Chemotherapeutic Agents
- Monitoring for Signs of Infection in Neutropenic Patients

5. Psychosocial and Palliative Care

- Therapeutic Communication and Emotional Support
- Counseling Patients and Families on Diagnosis and Prognosis
- Supporting Grief and Bereavement
- Spiritual and Cultural Sensitivity in End-of-Life Care
- Advanced Directives and Code Status Discussions
- Collaboration with Hospice Services

Signature of Resident/SNO