

CLINICAL SPECIALITY- II

MEDICAL SURGICAL NURSING – ONCOLOGY NURSING

Placement: II year M.Sc Nsg.

Hours of Instruction
Theory : 150 hours
Practical : 950 hours
Total : 1100 hours

Course Description:

This course is designed to assist students in developing expertise and in-depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for Nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, Manager, and researcher in the field of oncology nursing.

Objectives:-

1. Explain the prevention, screening and early detection of cancer.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems.
3. Describe the psychological effects of cancer on patients and families.
4. Demonstrate skill in administrating/ assisting in various treatment modalities used for patients with cancer.
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts on pain Management.
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care.
9. Appreciate the role of alternative systems of medicine in care of cancer patients.
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies.
12. Counsel the patients with cancer and their families.
13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing.
14. Recognize the role of oncology nurse practitioner as a member of oncology team.
15. Collaborate with other agencies and utilize resources in caring for cancer patients.
16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

COURSE OUTLINE

Unit	Time Hours		Content
	T	P	
I	4		<p>Introduction</p> <ul style="list-style-type: none"> • Epidemiology- incidence, Prevalence- Global, National, State and Local • Disease burden, concept of cancer, risk factors • Historical perspectives • Trends and issues • Principles of cancer management • Roles and responsibilities of oncology nurse
II	5		<p>The Nature of Cancer</p> <ul style="list-style-type: none"> • Normal cell biology • The Immune system • Pathological and pathophysiological changes in tissues <ul style="list-style-type: none"> ○ Biology of the cancer cell ○ Clone formation Transformation ○ Tumors stem lines ○ Structure of a solid tumor ○ Products produced by the tumor <p>Systemic effects of tumor growth</p>
III	4		<p>Etiology of Cancer</p> <ul style="list-style-type: none"> • Carcinogenesis • Theories of cancer causation • Risk factors • Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation • Hormone changes, diet, emotional Factors.

Unit	Time Hours		Content
	T	P	
IV	10	2	<p>Diagnostic Evaluation</p> <ul style="list-style-type: none"> * Health assessment: History taking, physical examination * Staging and grading of tumors * TNM classification * Common diagnostic tests <ul style="list-style-type: none"> • Blood investigation: Haematological, Bio-chemical, Tumor markers, Hormonal assay • Cytology: Fine needle aspiration cytology (FNAC) • Histopathology: Biopsy • Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron Emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging • Endoscopies <p>Nurses responsibilities in diagnostic measures</p>
V	10	2	<p>Levels of prevention and care</p> <ul style="list-style-type: none"> * Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer. * Self examination – Oral, Breast, Testicular * Secondary prevention – early diagnosis * Screening * Tertiary prevention – disability limitation * Rehabilitation : Mobility, Speech, Bowel and bladder, Ostomies etc. * Patient and family education * Discharge instruction, follow-up care and use of community resources.

Unit	Time Hours		Content
	T	P	
VI	25	4	<p>Cancer Treatment Modalities and Nurse's Role</p> <p>* <i>Surgery</i></p> <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy • Determining surgical risk • Special surgical techniques • Pre-intra postoperative nursing care • Acute and chronic surgical complications • Future directions and advances <p>Chemotherapy</p> <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics. • Pharmacology of antineoplastic drugs -Mechanism of action, Absorption, protein binding, Biotransformation, excretion common side effects, drug Toxicity. • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions <p>Radiation Therapy</p> <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments : Linear accelerator, cobalt, Implants, Isotopes. • Types of therapies: Oral, Brachytherapy, teletherapy, selection Therapy.

Unit	Time Hours		Content
	T	P	
			<ul style="list-style-type: none"> • Effects of radiation on the body Tissue. • Radiation biology-cell damage hypoxic cells, alteration of tumor Kinetics. • Approaches to radiation therapy • External radiotherapy • Internal radiotherapy-unsealed, • Sealed sources. • Effectiveness of radiotherapy- Radiosensitivity, treatment effects • Complications of radiotherapy • Radiation safety : Standards of Bhaba Atomic Research Centre (BARC) <p>Bone Marrow Transplantation/Stem Cell Transplantation</p> <ul style="list-style-type: none"> • Types, indications, t transplantation Procedure and complications. • Types and donor sources • Preparation and care of donor and recipient • Legal and ethical issues <p>Immunotherapy (Biotherapy)</p> <ul style="list-style-type: none"> • Concepts and principles • Classifications of agents • Treatment and applications <p>Gene Therapy</p> <ul style="list-style-type: none"> • Current Concepts and practices <p>Alternative and Complementary Therapies</p> <ul style="list-style-type: none"> • Current practices

Unit	Time Hours		Content
	T	P	
VII	10	4	<p>Pain management : Theories, types and</p> <ul style="list-style-type: none"> • Nature of cancer pain • Pathophysiology of pain • Pain threshold <p>Assessment of pain</p> <ul style="list-style-type: none"> • Principles of cancer pain control • Pharmacological: Opioid and nonopioid analgesic therapy • Patient controlled analgesia (PCA) • Other invasive techniques of pain control • Recent developments in Cancer pain <p>Non-Pharmacological pain relief technique.</p> <ul style="list-style-type: none"> • Complementary therapies (Music, massage, meditation, relaxation techniques, biofeed back etc) • Psychological intervention in pain control • Alternative system of medicines <p>Role of nurse</p>
VIII	5		<p>Palliative care</p> <ul style="list-style-type: none"> • Definition an scope, philosophy • Concept and elements of palliative care • Global and Indian perspective of palliative care • Quality of life issues • Communication skill • Nursing perspective of palliative care and its elements • Home care • Hospice care <p>Role of nurse in palliative care</p>

Unit	Time Hours		Learning Objectives	Content	Method of Teaching	Evaluation
	T	P				
IX	2		Recognize the process of infection and preventive methods	Infection control <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections-prevention and control of in acute, long term care facility and community based care • Standard safety measure 	Seminar Presentation	Essay type questions
X	30		Describe the care of patients with various type of malignancies.	Nursing Care of Patients With Specific Malignant Disorders <ul style="list-style-type: none"> • Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver & pancreas, care of ostomies/stoma • Respiratory malignancies • Genito urinary system malignancies prostate Bladder, renal testicular malignancies. • Gynecological malignancies-cervix uterus, ovary. • Hematological malignancies- Lymphomas, Leukemias. • Malignancies of musculoskeletal system • Endocrine malignancies • Skin • Head and Neck – brain tumors • Other malignancies – Breast cancer 	Clinical presentation Nursing Process Nursing rounds Case conference	Evaluation of case study, care plan
XI	10		Provide nursing care to paediatric group of patients	Paediatric malignancies <ul style="list-style-type: none"> • Leukemia, Lymphoma, Neuro blastoma • Wilm’s tumor, Soft tissue sarcoma, Retinoblastoma • Nursing Management of children with Paediatric Malignancies 	Clinical presentation Nursing Rounds	Assess the skill with evaluation nursing care plan

Unit	Time Hours		Learning Objectives	Content	Method of Teaching	Evaluation
	T	P				
XII	15		Recognize the clinical manifestations of cancer patients	<p>Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient</p> <ul style="list-style-type: none"> • Nutrition – effects of cancer on nutritional status and its consequences: Anemia, Cachexia, Xerostomia, mucositis, Dysphagia, Nausea and vomiting, constipation, Diarrhea, electrolyte imbalances, Taste alterations. • Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop <p>Other symptoms</p> <ul style="list-style-type: none"> • Dyspepsia & hiccup, dyspnoea • Intestinal obstruction • Fungating wounds • Anxiety & depression, insomnia • Lymph edema <p>Impact of cancer on sexuality</p> <ul style="list-style-type: none"> • Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient • Nursing management of cancer patients experiencing sexual dysfunction • Sexual counseling 	<p>Clinical presentation Ward Teaching Nursing Process</p> <p>Guided Group Discussion</p>	Evaluate care plan case study
XIII	10			<p>Cancer Emergencies</p> <ul style="list-style-type: none"> • Disseminated intravascular Coagulation (DIC). • Malignant pleural effusion • Neoplastic cardiac tamponade and septic shock spinal cord compression • Superior venacava syndrome 		

Unit	Time Hours		Learning Objectives	Content	Method of Teaching	Evaluation
	T	P				
			Appreciate the role of the nurse in cancer emergencies	<ul style="list-style-type: none"> • Metabolic emergency: hyper and hypo calcemia • Surgical emergency • Urological emergency • Haemorrhage • Organ obstruction • Brain metastasis • Nurses role in managing oncologic emergencies 	Lecture Cum Discussion Seminar Presentation	Short Answers
XIV	8		Describe the psychosocial aspects of nursing care Explains the ethical, moral and legal issues in caring for the cancer patients	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> • Psychological responses of patients with cancer • Psychosocial assessment • Crisis intervention, coping mechanisms • Stress management, spiritual/ Cultural care and needs. • Counseling: individual and family • Maximizing quality of life of patient and family <p>Ethical, moral and legal issues</p> <ul style="list-style-type: none"> • Care of dying patient • Grief and grieving process • Bereavement support • Care of Nurses who care for the dying 	Guided Group Discussion Conducting Guidance and Counseling Group Conference	Short answers checklist
XV	2		Design a layout and develop standards for management of Oncology units/hospitals and nursing care	<p>Layout and Design of an oncology institution/ward, OPD, chemotherapy unit, Bone marrow transplantation unit, pain clinic etc.</p> <ul style="list-style-type: none"> • Practice Standards of oncology nursing Policies and Procedures • Establishing Standing orders and Protocols <p>Quality Assurance Programme in Oncology units</p> <ul style="list-style-type: none"> • Nursing audit 	Field Trip Presentation of Observation Report	Evaluate the project work and presentation

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2. L.K. Clarke & M.J. Dropkin (2006) Site-Specific Cancer Series: Head and Neck Cancer.
3. R.M. Carroll-Johnson, L. & N.J. Bush (2006) Psychosocial Nursing Care Alo Cancer Continuum (2nd ed.)
4. D. Camp.-Sorrell & R.A. Hawkins (2006) Clinical Manual for the Oncology Advanced Practice Nurse (2nd ed.)
5. Marcelle Kaplan (2006) Understanding & Managing Oncologic Emergencies: A resource for Nurses.
6. M.M. Gullatte (2005) Nursing Management: Principles and Practice.
7. V. Kogut & S. Luthringer (2005) Nutritional issues in Cancer Care.
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9. M. Polovich, J.M. White & L.O. Kelleher (2005) Chemotherapy & Biotherapy Guidelines and Recommendations for Practice (2nd ed.)
10. B. Nevidjon (2004) Continuing the Legacy: More Voices of Oncology Nurses
11. L.A. Jacobs (2003) Master Degree with a Specialty in Advanced Practice Oncology Nursing (4th Ed.)
12. K. Jennings – Dozier (2002) Cancer Prevention Detection, a Nursing Perspective
13. M. Frank - Stromborg (2001) Cancer Prevention in Diverse P. Cultural Implications for the Multidiplinary Team.
14. C. Burke (1998) Psychological Dimensions of Nursing care
15. A. S. Luggen and S. E. Meiner (2000) Hand book for the Care of the older Adult with Cancer.
16. G. Decker (1999) An Introduction to Complementary and Alternative Therapies
17. D. W. Bruner, M. L. Haas & T.K. Gosse (2004) Manual for Radiation Oncology Nursing Practice & Education (3rd ed.)
18. M. M. Gullatte (2001) Clinical Guide to Antineoplastic Therapy: A Chemotherapy Handbook.
19. K. Kuebler & P. Espe (2002) Palliative Practices from A-Z for Bedside Clinician
20. C. Catlin-Huth, M. L. Hai Pollock (2002) Radiation Therapy Patient Care.
21. L. A. Jacobs (2002) Standards of Oncology Nursing Generalist and Advanced Practice (3rd ed)
22. V. Fieler & P. Hanson (2000) Oncology Nursing in the Home
23. S. Ezzone (2004) Hematopoietic Stem Cell Transplantation: A Manuel for Nursing Practice
24. Whedon – Blood and Marrow Stem Cell Transplantation (2nd ed)
25. Wilkes – Cancer & HIV Clinical Nutrition Pocket Guide (2nd ed.)
26. Yarbrow/Frogge/Goodman – Cancer Nursing: Principles and Practice (6thed.)
27. American Cancer Society – A Cancer Source Book for Nurses (8th ed.)
28. Yarbrow/ Frogge/ Goodman – Cancer Symptom Management, Patient Self-Care Guides (2)
29. Yarbrow/Frogge/Goodman – A Clinical Guide to Cancer Nursing (5th ed)
30. Hassey Dow – Contemporary issues in Breast Cancer, A Nursing Perspective (2nd ed.)
31. Vogel/Bevers – Handbook of Breast Cancer Risk assessment: Evidence based Guidelines for Evaluation, Prevention Counseling & Treatment
32. Johnson/Gross – Handbook of Oncology Nursing (3rd ed) King/ Hinds Quality of Life: From Nursing and Patient Perspectives
33. Brunner/ Siddarth – Text Book of Medical Surgical Nursing. 2004 (10th ed.)
34. Sorresen /Luckman – Medical Surgical Nursing (1994) (5th ed)

Journals:

- 1 Oncology nursing news letter.

PRACTICALS

1. Clinical practice in the care of patients with various malignant disorders.
2. Assessment of clients suffering with various malignant disorders.
3. Applying Theories and nursing process in the management of patients suffering with various malignancies.
4. Providing care to patients with ostomies and other appliances.
5. Assisting for implantations of radioisotopes.
6. Clinical case presentations of a patient.
7. Projects
8. Clinical and classroom teachings.
9. Health education on related disease conditions.
10. Field Visits Regional cancer centers/ cancer specialty hospitals /unit, Hospice, mobile palliative care, community oncology centers /home care unit, cancer registry, cancer detection centers etc.

Procedures Observed

1. **CT Scan**
2. **MRI**
3. **Ultra sound**
4. **Mammography**
5. **Radio Nuclide Imaging**
6. **Bone Scan**
7. **Thyroid Function Test**
8. **Functional and Metabolic Imaging**
9. **Transportation of radioactive materials**
10. **Others**

Procedures Assisted

- 1 **IV cannulation –Open method**
- 2 **Chemotherapy**
- 3 **Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation.**
- 4 **Interstitial implantation**
- 5 **Teletherapy – Treatment planning**
- 6 **Bone marrow aspiration and biopsy**
- 7 **Biopsy – tissue**
- 8 **FNAC – Fine Needle Aspiration Cytology & Biopsy**
- 9 **Advance cardiac life support**
- 10 **Endotracheal intubation**
- 11 **Defibrillation ventilation**
- 12 **Tracheostomy**
- 13 **Thoracentesis**
- 14 **Paracentesis**
- 15 **Lumbar Puncture**
- 16 **Arterial Blood Gas**
- 17 **Nerve Block**
- 18 **Chest tube insertion**
- 19 **Intercostal drainage**
- 20 **CVP monitoring**

Procedure Performed

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. Pap smear
8. IV cannulation
9. Care of surgical flaps
10. Care of ostomies
11. Blood transfusion and component therapy
12. Counseling
13. Practice standard safety measure
14. Care of dead body and mortuary formalities

Other procedures

1. Alternative therapies

Clinical Experience

SN	Department/Unit	No. of Week	Total Hours
1	Medical Oncology Ward	6	180
2	Surgical Oncology Ward	6	180
3	Bone marrow transplantation	2	60
4	Operation Theatre	2	60
5	Radiotherapy Unit	2	60
6	Chemotherapy Unit	4	120
7	Out patient department and pain clinic	2	60
8	Pediatric Oncology Ward	2	60
9	Palliative Care Ward	2	60
10	Community Oncology	2	60
11	Hospice	1	30
12	Other field visits	1	30
	Total	32	960

GUIDELINES TO WRITE CLINICAL PRESENTATION – MSc NURSING

1. Introduction
2. Patient's Profile
3. Health History
 - a. Chief complaints on admission
 - b. Present & Past illness (Medical surgical, Obstetrics, pediatric, psychiatric, Oncology)
 - c. Family History
 - d. Specific information of the patient
4. Health Assessment
 - a. Physical examination (head to foot & system assessment)
 - b. Investigation
 - c. Health information from other sources
5. Provisional Medical diagnosis
6. Treatment
7. Correlation of clinical and book picture
 - a. Definition
 - b. Clinical features
 - c. Prognosis
 - d. Etiology
 - e. Investigation
 - f. Complication
 - g. Pathophysiology
 - h. Treatment
8. Nursing Management – Nursing process
9. Plan of discharge & rehabilitation
10. Conclusion
11. Bibliography

Practical Experience Assignments

Case study	:	02	(50 marks each)	50 x 2 =	100
Case Presentation	:	02	(50 marks each)	50 x 2 =	100
Care Plan	:	03	(50 marks each)	50 x 3 =	150
Clinical Performance Evaluation:		03	(100 marks each)	100 x 3 =	300
Practical Examination			Mid Term		50
			Pre Term		100
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					800

Internal Assessment Total marks out of 100

External Assessment Total marks out of 100

(Theory)

Midterm Exam	50
Prefinal Exam	75
Seminar	50
Project work on planning oncology unit	75

800

M.Sc. NURSING : CLINICAL SPECIALITY – II

PROFORMA & GUIDELINE FOR CASE STUDY

Area :- (Maximum Marks – 50)

01. Selection of patient.
02. Demographic data of the patient.
03. Medical history past and present illness.
04. Comparison of the patient's disease with book picture.
 - a) Anatomy and physiology.
 - b) Etiology.
 - c) Patho physiology.
 - d) Signs and symptoms.
 - e) Diagnosis - provisional & final
 - f) Investigations
 - g) Complications & prognosis.
05. Management:- Medical or Surgical
 - a) Aims and objectives.
 - b) Drugs and Medications.
 - c) Diet.
06. Nursing Management (Nursing Process approach)
 - a) Aims and objectives.
 - b) Assessment and specific observations.
 - c) Nursing diagnosis.
 - d) Nursing care plan (Short term & long term with rationale.)
 - e) Implementation of nursing care with priority.
 - f) Health teaching.
 - g) Day to day progress report & evaluation.
 - h) Discharge planning.
07. Drug Study.
08. Research evidence.
09. Summary and conclusion.
10. Bibliography.

EVALUATION CRITERIA FOR CASE STUDY.

(Maximum Marks – 50)

SN	Criteria	Marks allotted.	Marks obtained	Total
01.	Assessment	5		
02.	theoretical knowledge about disease	5		
03.	Comparative study of the patient's disease & book picture.	10		
04.	Management: Medical or Surgical.	5		
05.	Nursing Process.	15		
06.	Drug study.	3		
07.	Summary & conclusion including research evidence.	5		
08.	Bibliography.	2		
Total		50		

Signature of Student

Signature of Clinical supervisor

M Sc NURSING: CLINICAL SPECIALITY – II

PROFORMA & GUIDELINE FOR CASE PRESENTATION

I] Patient Biodata

Name, Age, Sex, Religion, Marital status, Occupation, Source of health care, Date of admission, Provisional Diagnosis, Date of surgery if any.

II] Presenting complaints

Describe the complaints with which the child has been brought to the hospital

III] Socio-economic status of the family: Monthly income, expenditure on health, food, education etc.

IV] History of Illness (Medical & Surgical)

- i) History of present illness – onset, symptoms, duration, precipitating / aggravating factors
- ii) History of past illness surgery, allergies, medications etc.
- iii) Family history – Family tree, history of illness in the family members, risk factors, congenital problems, psychological problems etc.

V] Diagnosis: (Provisional & confirmed).

Description of disease: Includes the followings

1. Definition.
2. Related anatomy and physiology
3. Etiology & risk factors
4. Path physiology
5. Clinical features.

VI] Physical Examination of Patient (Date & Time)

Physical examination: with date and time.

Clinical features present in the book Present in the patient

VII] Investigations

Date Investigation done Results Normal value Inferences

VIII] Management - (Medical /Surgical)

- a) Aims of management
- b) Objectives of Nursing Care Plan

IX] Treatment:

S.No	Drug (Pharmacological name)	Dose	Frequency/ Time	Action	Side effects & drug reaction
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Nurse's

responsibility

- Medical or Surgical Management.
- Nursing management

X] Nursing Care Plan: Short Term & Long Term plan.

Assessment Nursing

Diagnosis

Objective Plan of care

Rationale Implementation Evaluation

XI] Discharge planning:

It should include health education and discharge planning given to the patient.

XII] Prognosis of the patient:

XIII] Summary of the case:

IVX] References:

EVALUATION CRITERIA FOR CASE PRESENTATION

Maximum Marks – 50)

SN	Criteria	Marks Allotted	Marks Obtained	Total
1	Content Subjective & objective data.	08		
2	Problems & need Identified & Nsg. Care Plan	15		
3	Effectiveness of presentation	5		
4	Co-relation with patient & Book i. e. research evidence.	10		
5	Use of A. V. Aids	5		
6	Physical arrangement	2		
7	Group participation	3		
8	Bibliography & references	2		
	Total	50		

CLINICAL EVALUATION: COMPREHENSIVE NURSING CARE

(Maximum Marks – 100 each area.)

Name of the Student

Year: II Year M.Sc Nursing

Duration of Experience:

SN	Criteria	1	2	3	4	5
I	UNDERSTANDING OF PATIENT AS PERSON A. Approach. 1. Rapport with patient/ family members. 2. Collects significant information. B. Understanding of patient's health problems. 1. Knowledge about disease condition. 2. Knowledge about investigations. 3. Knowledge about treatment. 4. Knowledge about progress of the patient.					
II	NURSING CARE PLAN A. Assessment of the condition of the patient. 1. History taking – past & present health and illness. 2. Specific observation of the patient. 3. Nursing diagnosis. B. Development of the short – term & long term Nursing care plans. 1. Identification of all problems in the patient/ family. 2. Prioritization & implementation of the plans. 3. Evaluation of the care given & replanning					
III	TECHNICAL SKILL 1. Economical & safe adaptation to the situation & available facilities. 2. Implements the procedure with skill speed & completeness.					
IV	RECORDING & REPORTING 1. Prompt, precise, accurate & relevant. 2. Maintenance of clinical experience file.					
V	HEALTH TEACHING 1. Incidental/ planned teaching with principles of teaching & learning. 2. Uses visual aids appropriately					
VI	PERSONALITY 1. Professional appearance (uniform, dignity, tact fullness interpersonal relationship, punctuality etc. 2. Sincerely, honesty & Sense of responsibility.					
	TOTAL MARKS					

Positive & Negative aspects.

Signature of Student _____

Signature of Clinical supervisor _____