CURRICULUM

OF

POST BASIC DIPLOMA IN OPERATION ROOM NURSING

Post Basic Diploma in Operation Room Nursing

PHILOSOPHY OF THE PROGRAM

The College of nursing is a constituent unit of MGM Institute of Health Sciences (MGMIHS) Navi Mumbai. The philosophy of the college of nursing is consistent with the philosophy of MGMIHS and Indian Nursing Council.

We believe that

- o registered nurses need to be trained in Operation Room Nursing in clinical settings in order to provide comprehensive care to patients undergoing surgery.
- registered nurses need to be prepared as per the expanding roles of nurses and advances in technology for effective participation in as a health team member in operation room.

PURPOSE:

The purpose of the course is to train nurses to:

- 1. Provide quality care to patients in Operation Room.
- 2. Manage and supervise care of patients in Operation Room
- 3. Teach nurses, allied health professionals and family members in areas related to Operation Room.
- 4. Conduct research in areas of Operation Room Nursing.

COURSE DESCRIPTION

The course is designed to prepare registered nurses (GNM or B.Sc.) with advanced knowledge, clinical skills and attitude necessary to function effectively as a member of OR surgical team (OR / Perioperative Nursing includes immediate pre intra and immediate post operative nursing).

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GENERAL OBJECTIVE

At the end of the course the student will be able to develop an understanding of philosophy, principles, methods and issues, management, education and research in operation room nursing. Furthermore, this course will enable them to develop skills and attitude in providing competent operation room nursing care.

SPECIFIC OBJECTIVES:

At the end of the course the student will be able to

- 1. Describe the concepts and principles of operation room nursing.
- 2. Communicate effectively with patients having undergoing surgery and their family members
- 3. Perform advance life support skills
- 4. Apply nursing process in caring of patients undergoing surgery.
- 5. Participate effectively as a member of the health team.
- 6. Organize and demonstrate skills in management of operation room.
- 7. Make a plan for organization of operation room.
- 8. Assist during surgical procedures and coordinate with the members of OR team
- 9. Conduct research operation room nursing.
- 10. Teach and supervise nurses and allied health workers.

ADMISSION TERMS AND CONDITIONS

The student seeking admission to this course should:

- 1. Be a registered nurse (R.N. &R.M.) or equivalent.
- 2. Possess a minimum of one year experience as a staff nurse.
- 3. Nurses from other countries must obtain an equivalence certificate from INC before admission.
- 4. Be physically fit.
- 5. No. of seats
 - Maximum number of seats =25

DURATION

Course Duration = 1 Years

Teaching: Theory & clinical Practice = 42 weeks

Internship = 4 week

Examination (including preparatory leave) = 2 weeks

Vacation = 2 weeks

Public Holidays = 2 weeks

52 weeks

COURSE OF INSTRUCTIONS

Sl. No.	Subject	Theory (in hrs)	Practical (in hrs)
1.	Clinical Nursing – I (Inclusive of Foundation	155	
	Courses)		
2.	Clinical Nursing - II	155	
3.	Supervision and Management, Clinical Teaching,	_	1280 (
	Elementary Research and Statistics		Integrated clinical
	i.) Supervision and Management	30	practice)
	ii.) Clinical Teaching	30	
	iii.) Elementary Research and Statistics	30	
4.	Internship		160
	Total hours	400	1440
	Total hours = 1840 hrs		

HOURS DISTRIBUTION FOR THEORY AND PRACTICE

■ Available hours = 42 weeks x 40 hours/ week = 1680 hours

■ Block Classes = 4 weeks x 40 hours/ week = 160 hours

■ Integrated theory & clinical practice = 38 weeks x 40 hours/ week = 1520 hours

Theory hours $= 38 \text{ weeks } \times 6 \text{ hours/ week} = 240 \text{ hours}$

Clinical Experience = 38 weeks x 34 hours/ week = 1280 hours

■ Internship = 4 weeks x 40 hours/ week = 160 hours

SCHEME OF EXAMINATION

Subject	Duration Hours	Internal assessment	External examination	Total marks
		marks	marks	
A. Theory				
Paper I- Clinical Nursing I	3	25	75	100
Paper II- Clinical Nursing II	3	25	75	100
Paper III - Supervision and Management, Clinical Teaching, Elementary Research and Statistics	3	25	75	100
B. Practical				
Clinical Nursing (teaching & supervision to be Integrated)		100	100	200
Grand Total		175	325	500

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GENERAL RULES FOR UNIVERSITY YEARLY EXAMINATION

A. Condition for admission to Examination

- 1. The student has attended not less than 75 % of the theoretical instruction hours in each subject during the year.
- 2. The student has done not less than 75 % of the clinical practical hours. However, students should make up 100% of attendance in term of hours and activities before awarding the certificate.

B. Examination Body

3. The examination to be conducted by the State Nursing Registration Council / State Nursing Examination Board/ **University recognized** by the Indian Nursing Council.

C. Standard of Passing

- 4. In order to pass a candidate should obtain at least 50% marks separately in internal and external examination in each of the theory and practical papers.
- 5. Grades are as follows
 - a) Second division = Less than 60%
 - b) First division = 60 % and above and below 75%
 - c) Distinction = 75 % and above
- 6. Students will be given opportunity of maximum of 3 attempts for passing.

CERTIFICATION

- 1. Title Post Basic Diploma in **Operation Room nursing**
- 2. A diploma is awarded upon successful completion of the prescribed study programme, which will state that,
 - a. Candidate has completed the prescribed course of cardio- thoracic nursing.
 - b. Candidate has completed prescribed clinical experience.
 - c. Candidate has passed the prescribed examination.

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OPERATION ROOM NURSING -I

Theory: 155 hours

Course Description –This course is designed to help the students to review their knowledge of structure and function of human body, pharmacodynamics of drugs acting on various systems of body and their relation with promotion of health and application of principles of microbiology as applied to infection control practices in the operation room.

Objectives: This course will help the students to:

- 1) Apply the knowledge of structure and function of various system of human body relevant to surgical procedures.
- 2) Describe the pharmacodynamics of common drugs and anesthetic agents used in OR.
- 3) Apply principles of microbiology in infection control practices in OR.
- 4) Describes the principles, types and methods of anesthesia and nurses responsibilities.
- 5) Apply principles of biophysics and chemistry in use of various gadgets.
- 6) Discuss ethical and legal responsibilities of OR nurse.

Unit	Hrs	Theory	Hrs	Practical
Ι	20	ANATOMY AND PHYSIOLOGY		
		Review		
		☐ Musculo skeletal system		
		☐ Body fluids & electrolyte balance		
		☐ Respiratory system		
		☐ Cardiovascular system		
		☐ Central Nervous system		
		☐ Special senses Ear & Hearing, Eye & Vision Elimentary		
		system		
		☐ Metabolism & Nutrition – Vitamins – Minerals Blood		
		☐ Urinary System		
II	45	SURGICAL ANATOMY		
		☐ GENERAL SURGERY: Abdominal Surgery- Anatomy		
		of abdominal wall incisions, hernia alimentary canal, gall		
		bladder, bile duct, liver, spleen, pancreas, surgery of head		
		and neck mouth and breast, thyroid gland		
		☐ ORTHOPEDICS: Bones and joints		
		☐ UROLOGY: Kidney, ureters, Bladder, prostate, testes		
		☐ EAR, NOSE AND THROAT: Surgery of pharynx larynx		
		nose and ear		
		☐ GYNAEC AND OBST.: Pelvic viscera & other supports		

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Unit	Hrs	Theory	Hrs	Practical
		☐ Uterus, fallopian tubes, ovaries, cervix, vagina		
		☐ CARDIOTHORACIC SURGERY: Chest wall, heart,		
		blood vessels, trachea, bronchi, lungs		
		□ NEURO SURGERY: Brain, spinal cord, peripheral		
		& sympathetic nerves		
		□ PAEDIATRIC SURGERY: Body systems		
		□ OPTHALMOLOGY: Eyes		
III	8	BIO-PHYSICS CHEMISTRY	2	Operation
		Review		table
		☐ Units of measurement		mechanics
		☐ Gas laws		
		□ Heat		
		☐ Electrostatics		
		☐ Laser rays used in O.R		
		☐ Chemicals used in O.R		
		☐ Occupational hazards in O.R., Its prevention, control		
		and management in emergency		
		☐ Radioactive materials, operation tables mechanics,		
		positioning		
		☐ Principles underlying use of various gadgets		
TX 7	10			
IV	10	COMMUNICATION SKILLS & IPR		
		Process and methods		
		Establishing and maintaining good IPR &		
		communication with family, staff and colleagues		
		☐ Breaking of bad news, multidisciplinary team and role of nurses		
		☐ Guidance & Counseling		
		Guidance & Counselling		
V	8	ANAESTHESIA	2	Anaesthesia
		☐ Introduction		Machine
		□ Principles,		
		☐ Types, Stages		
		☐ Method of administration		
		☐ Anaesthetic machines and equipments		
		☐ Nurses role and responsibilities		
		☐ Drugs used in anaesthesia		
		☐ Anaesthetic agents used: types		
		☐ Methods of administration		
		☐ Actions and effects, side effects, Antidotes		
		☐ Nurses responsibilities		

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Unit	Hrs	Theory	Hrs	Practical
VI	10	LEGAL RESPONSIBILITIES		
		 Identification of patients 		
		 Identification of right part to be operated 		
		 Valid consent – for patient 		
		- use of body tissue and organ transplant		
		 Care of dentures 		
		 Counting of sponges, instruments etc 		
		 Prevention of unusual incidences(fall of patient, 		
		burn, fire hazards)		
		 Records in operation theatre – Its medico –legal 		
		importance		
VII	30	PHARMACOLOGY	5	Drug
		Review		calculation
		□ Pharmacokinetics		
		☐ Drug reactions and toxicity		
		☐ Principles of drug administration , role of nurses		Operating
		Antiseptics and disinfectants		■ syringe
		Hypnotics and Barbiturates		pump
		Tranquillizers and sedatives		■ infusion
		Neuroleptic drugs		pump
		• Phenothiazines		■ meter dose
		Butobarbitone		inhaler
		Anticonvulsants		
		• Analgesics		
		Intraoperative analgesia		
		Nonsteroidal anti-inflammatory drugs		
		Narcotic antagonists		
		Intravenous induction agents		
		• Isopynatime		
		Bronchodilators Descriptory et involunts		
		Respiratory stimulants Anti-decompt basis of		
		• Antidysarrythmics		
		• Vasopressor		
		Vasodilators Antihymoutonoiyya dunga		
		Antihypertensive drugs Ganglion blockers		
		Ganglion blockers Plasma Expanders		
		Plasma ExpandersMuscle relaxant		
		Beta blockers Utarina stimulators, Utarina inhibitors		
		Uterine stimulators, Uterine inhibitors Insulin		
		• Insulin		

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Unit	Hrs	Theory	Hrs	Practical
		 Histamine and H1 and H2 receptor antagonists Anticoagulants Anticholinergics Drugs acting on eye, ENT etc. 		
VIII	6	 MICROBIOLOGY Inflammation and Infection Principles of asepsis Classification of Microorganisms Principles and methods of Sterilization and Infection Diagnostic tests in microbiology and related nurses responsibility Culture and Growth Standard safety measures and Biomedical waste management 	4	Visit to CSSD
IX	5	 CARE OF DYING PATIENTS Spiritual support to the dying Grief and grieving process Bereavement support Organ donation and counseling Care of dead 		

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SCHEME OF EXAMINATION

Sr. No	Theory Exam	Marks allotted	Duration in hours
1	Internal Assessment	25	-
2	External Assessment	75	3
	Total	100	

INTERNAL ASSESSMENT

(25 MARKS)

Sr	Item	Marks	Weightage	Marks
No		allotted	(%)	out of 25
1.	First term Exam	50	20	5.0
2.	Pre-final Exam	75	30	7.5
3.	Assignments			
	a) Seminar	25	10	2.5
	b) Journal- instruments, machines, Application of biophysics in OR	25	20	5.0
	c) Drug book	25	10	2.5
4.	Attendance		10	2.5
	Total	200	100	25

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OPERATION ROOM NURSING-II

Theory: 155 hours

Course Description – This course is designed to prepare OR nurses with specialized knowledge and skills in assisting for various surgical procedures and practicing infection control measures.

Objectives: On completion of this course the student will:

- 1) Demonstrate the skill in assisting different operative procedures.
- 2) Apply nursing process in preoperative, operative and post-operative stages.
- 3) Demonstrate skill in organization of tasks, time, motion, equipment, supplies, materials and resources
- 4) Demonstrate knowledge and principles of sterilization and disinfection
- 5) Participate with other surgical team member

Unit	Hrs	Theory	Hrs	Practical
Ι	10	O.R TABLE AND ORGANIZATION		
		Equipments and amenities		
		Different types of tables and accessories		
		Organization of table and equipments, Nurses		
		role and responsibilities		
II	12	INFECTION CONTROL	3	• Hand Washing
		• Environment :- Cleaning, disinfecting O.R,		Techniques
		Area, equipments, air conditioning system		• Practice
		Aseptic Techniques – hand washing, use of		standard safety
		mask, gowning, gloving, head cover		precaution
		 Sterilization – preparing and packing of 		
		instruments, dressing materials, linen, suture		
		materials, drainage tubes, and catheters, care of		
		electro medical equipments, handling and storing		
		of sterilized material, equipments, instruments		
		Collection of various specimens for laboratory		
		tests		
		Bio medical waste management: - Universal		
		standards and its application in O.R. Nursing.		
		Nurses role and responsibility		
III	60	PREPARATION AND ASSISTING FOR	10	-Setting up of trays
		VARIOUS SURGICAL PROCEDURE; AS		and trolleys
		CIRCULATING AND SCRUB NURSE		-Skin Preparation
		Setting up of operation room and table		-Draping and
		Setting up of trays and trolleys for various		positioning
		surgical procedures		-Preparation of pre
		Part preparation for surgical procedures		operative and

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Unit	Hrs	Theory	Hrs	Practical
		Positioning and draping according to the surgical		post operative unit
		procedures		Duessing of all
		Incisions for various surgical procedures		-Dressing of all wounds
		Minor surgeries – surgical instruments and		wounds
		suturing materials		-Scrubbing
		Major surgeries – surgical instruments		,gowning, gloving
		General, gynaecology		
		Obstetrics		
		Orthopedics		
		Plastic and Reconstructive Surgeries		
		Ophthalmic		
		Head and Neck		
		• ENT		
		Cardio-Thoracic		
		Neuro,		
		Paediatric		
		Dental		
		Laser and robotic surgery		
		Records and reports		
		Nurses role and responsibilities		
IV	5	OPERATING MICROSCOPES		
		Types, Accessories, Attachments, Uses		
		Disinfection, Maintenance and storage		
		Nurses role and responsibilities		
V	4	SUTURE MATERIAL AND NEEDLES	1	Identify
		Types, Uses, Disinfection and Storage		instruments,
				suture materials
VI	10	ENDOSCOPIES		for operations
		• Definition		
		• Types		
		• Uses		
		Maintenance and storage		
		 Preparation of patients 		
		 Nurses role and responsibilities 		
VII	4	BANDAGES, SPLINTS, CASTS AND TRACTION	1	Bandaging
		Types, Uses, Preparation, Maintenance and storage		
VIII	23	RECOVERY ROOM/ SURGICAL INTENSIVE	2	Transferring of the
		CARE UNIT		patient
		Set up and organization		

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Unit	Hrs	Theory	Hrs	Practical
		Management of patient		
		Reporting and recording		
		Transportation of patient		
		 Nurses role and responsibilities 		
IX	8	FLUID THERAPY	2	- Fluid therapy in
		Fluid and electrolytes		various disorders
		 Blood and blood components 		- Administration of
		Plasma and plasma		blood and its
		Allergies and reactions		components
		High risk patients		
		Management of anaphylactic shock		
		Records and reports		
		 Nurses role and responsibilities 		

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SCHEME OF EXAMINATION

Sr. No	Theory Exam	Marks allotted	Duration in hours
1	Internal Assessment	25	-
2	External Assessment	75	3
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INTERNAL ASSESSMENT

(25 MARKS)

Sr No	Item	Marks allotted	Weightage (%)	Marks out of 25
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2.	Pre-final Exam	75	30	7.5
3.	Assignments			
	a) Seminar	25	20	5.0
	b) Journal	25	20	5.0
4.	Attendance		10	2.5
	Total	175	100	25

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SUPERVISION AND MANAGEMENT, CLINICAL TEACHING, ELEMETARY RESEARCH AND STATISTICS

Theory: 90 hours

Course Description –This course is designed to develop an understanding of principles of supervision and management, clinical teaching and research.

Objectives:

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

- 1. Describe professional trends.
- 2. Describe role of nurse in management and supervision of nursing personnel in operation room.
- 3. Teach nurses and allied health workers in Operation room.
- 4. Describe research process and perform basic statistical tests.
- 5. Plan and conduct research in Operation room nursing.

Section A: Supervision and Management

30 hrs

Section A: Supervision and Management			30 nrs	
Unit	Hrs	Theory	Hrs	Practical
I	15	SUPERVISION AND MANAGEMENT	5	Preparation of
		□ Management		- SOPs
		 Definition & Principles 		- Performance
		■ Elements of management of Operation room –		appraisal tool
		planning, organizing, staffing, reporting,		
		recording and budgeting.		
		 Operation room management – time, material 		
		and personnel.		
		Physical Layout of Operation room: Design,		
		size, shape, colour, ventilation with air		
		conditioning, lighting, ultra clean air system,		
		traffic flow pattern, zones of risk, sign of		
		various facilities.		
		☐ Clinical supervision		
		 Introduction, definition and objectives of 		
		supervision		
		 Principles and functions of supervision 		
		 Qualities of supervisors 		
		 Responsibilities of clinical supervisors 		
		 Practical standards of Operation room nurse. 		
		 Policies and procedures 		
		- Establishing standing orders and protocols		
		 Orientation programme for new recruits. 		
		☐ Quality Assurance programme in Operation room		
		 Nursing Audit 		
		 ISO, NABH, JCI accreditation 		

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Unit	Hrs	Theory	Hrs	Practical
		 □ Performance appraisal ■ Principles of performance evaluation ■ Tools of performance appraisal – rating scales, checklist, peer reviews, self appraisal □ Staff development ■ Introduction and purposes ■ In-service education ■ Continuing education 		
II	5	PROFESSIONAL TRENDS ☐ Introduction ☐ Code of ethics, code of professional conduct and practice standards of Nursing in India. ☐ Ethical issues. ☐ Expanding role of the nurse: Specialist nurse, nurse practitioner etc. ☐ Professional organizations.		
III	5	MEDICO – LEGAL ASPECTS □ Legislations and regulations related to OR □ Consumer Protection Act (CPA) □ Negligence and Malpractice □ Legal responsibilities of nurses ■ Bill of Right of a patient ■ Case studies of Judgement with regard to negligence of services in the Hospital □ Records and Reports □ Role of the nurse in Legal issues □ Professional practice issues in the OR □ Bioethical issues in OR ■ ethics, ethical principles, ■ withholding and withdrawing treatment, ■ Ethical decision making in a OR ■ Code of professional conduct and practice standards.		

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Section B: Clinical Teaching

30 hrs

Unit	Hrs	Theory	Hrs	Practical
IV	20	Teaching Learning Process	10	Preparing lesson
		☐ Introduction and concepts		plans
		☐ Principles of teaching and learning		
		☐ Formulation of learning objective		Conducting clinical
		☐ Lesson planning		teaching (3) using
		☐ Teaching methods		various teaching
		■ Lecture		methods.
		Demonstration, simulation		
		Discussion		
		 Clinical teaching methods 		
		Microteaching		
		Self learning		
		☐ Evaluation- Assessment of students		
		Purposes, Types		
		■ Steps		
		 Tools for assessing knowledge, skill and 		
		attitude		
		☐ Use of media in teaching learning process		

Section C: Elementary research and statistics

30 hrs

Unit	Hrs	Theory	Hrs	Practical
V	18	RESEARCH	2	Presentation of
		☐ Research and research process		research
		☐ Types of Research		proposal
		☐ Research problem /question		
		☐ Review of Literature		
		☐ Research approaches and designs		
		☐ Sampling		
		☐ Data collection: tools and techniques		
		☐ Analysis and interpretation of data		
		☐ Communication and utilization of Research		
		☐ Research priorities in OR		
	7	STATISTICS	3	Computer
		☐ Sources and presentation of data		application –
		Qualitative and quantitative		practicals
		 Tabulation, frequency distribution, percentiles 		
		 Graphical presentation 		 MS word
		☐ Measures of central tendency: Mean, Median,		 MS Excel
		Mode		 MS PPT
		☐ Measures of Variance		
		□ Normal probability and tests of significance		
		☐ Co-efficient of correlation		
		☐ Statistical packages and its application		
		☐ Preparing a research proposal		
		☐ Application of Computers.		

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- **4.** DorothyYB & Marie TH, Fundamentals of research in Nursing, Jones & Bartlett Publishers,Boston.
- **5.** Mahajan Methods in Bio statistics.
- **6.** Trece E.W. & Treece JW: Elements of Research in Nursing, The CV Mosby Company St, Louis

SCHEME OF EXAMINATION

Sr. No	Theory Exam	Marks allotted	Duration in hours
1	Internal Assessment	25	-
2	External Assessment	75	3
	Total	100	

INTERNAL ASSESSMENT

(25 MARKS)

Sr No	Item	Marks allotted	Weightage (%)	Marks out of 25
1.	First term Exam	50	20	5
2.	Pre-final Exam	75	30	7.5
3.	Assignments			
	a) Ward management report	25	10	2.5
	b) Clinical teaching (3)	150	10	2.5
	c) Research project	100	10	2.5
	d) Prepare clinical rotation plan	25	10	2.5
4.	Attendance		10	2.5
	Total	425	100	25

${\bf CLINICAL\ NURSING\ (TEACHING\ \&\ SUPERVISION\ TO\ BE\ INTEGRATED)}$

HOURS DISTRIBUTION FOR CLINICAL EXPERIENCE

Sr. No.	Operation Room	As per INC (In Weeks)	No. of Hrs
1.	Gastro Intestinal	4	136
2.	Nephrology and urology surgery	4	136
3.	Neurology surgery	4	136
4.	Cardiovascular and thoracic surgery	4	136
5.	Ortho surgery	4	136
6.	ENT	2	68
7.	Ophthalmic	2	68
8.	Gynae and obstetrical	4	136
9.	Pediatric Surgery	4	136
10.	Burns and plastic	4	136
11.	Dental surgery	2	68
	Total	38 weeks	
	Internship*	4 weeks	160

^{*}Two weeks evening and two weeks night (40 hrs per week)

SCHEME OF EXAMINATION (Practical)

Sr. No	Theory Exam	Marks allotted
1	Internal Assessment	100
2	External Assessment	100
	Total	200

INTERNAL ASSESSMENT

(100 MARKS)

Sr	Item	Marks	Weightage	Marks
No		allotted	(%)	out of 25
1.	First term Exam	50	10	10
2.	Pre-final Exam	100	30	30
3.	Assignments			
	a) Clinical Evaluation (4)	400	10	10
	b) Case studies (5)	250	10	10
	c) Case Presentations (5)	250	10	10
	d) Case Book	50	10	10
	e) Observation report	50	5	5
	f) Health Teachings (3)	75	5	5
4.	Attendance		10	10
	Total	1225	100	100

Post Basic Diploma in Operation Room Nursing

ESSENTIAL NURSING SKILLS

I. Procedures to be Observed

a. Surgical interventions in all the minor and major OTs

II. Procedures to be Assisted

- 1. Monitoring ICP
- 2. Advanced life support system
- 3. Arterial blood gas analysis
- 4. ECG recording
- 5. Arterial catheterization
- 6. Chest tube insertion
- 7. Endotracheal intubation
- 8. Ventilation
- 9. Central line, arterial line, cardiac pacing
- 10. Use of defibrillation, cardio pulmonary resuscitation
- 11. Endoscopy
- 12. Dialysis- hemodialysis, and peritoneal dialysis
- 13. Intra venous pylography (IVP)
- 14. EEG
- 15. Bronchoscopy

III. Procedures to be Performed

- Work as scrub nurse
- Work as circulatory nurse
- Setting up of trays and trolleys of all surgical procedures
- Skin preparation
- Draping and positioning
- Transferring of the patient
- Use of operating room care plan
- Specific teaching related to patient's surgery
- Adequate instrumentation
- Use special supplies and /or equipments
- Dressing of all wounds
- Sterilization and asepsis
- Microbiology and environment
- Preparation of supplies and instruments
- Working knowledge of disposable packs
- Disposable gowns, proper handling of paper wrappers.
 - 1. Neurological assessment: Glasgow coma scale
 - 2. Pulse oxymetry
 - 3. Arterial BP Monitoring
 - 4. Venous access, ABG collection, monitoring

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- 5. Oxygen administration, suctioning, respiratory therapy, tracheostomy toilet
- 6. Airway management
 - i. Application of oropharyngeal airway
 - ii. Oxygen therapy
 - iii. CPAP
 - iv. Care of Tracheostomy
 - v. Endotracheal intubation
- 7. Care of Intercostal drainage
- 8. Nebulisation,
- 9. Chest physiotherapy
- 10. Monitoring of critically ill patients clinically and with monitors, CRT (Capillary refill time), ECG
- 11. Gastric lavage
- 12. Setting of ventilators
- 13. Assessment of Neonates: identification and assessment of risk factors, APGAR score.
- 14. Admission and discharge of critically ill patients
- 15. OG (Orogastric) tube insertion
- 16. Thermoregulation- management of thermoregulation and control, use of hypothermia machines.
- 17. Administration of drugs: IM, IV injection, IV cannulation and fixation of infusion pump, calculation of dosages, monitoring fluid therapy.
- 18. Administration of blood and its components
- 19. Procedures for prevention of infection: hand washing, disinfections and sterilization, surveillance, fumigation.
- 20. Collection of specimens related to critical care
- 21. Burns: assessment, calculation of fluids crystalloids and colloids.
- 22. Maintenance of intake and output chart.
- 23. Wound dressing and prevention of contractures.
- 24. Rehabilitation.

IV: other procedure