



लाल बहादुर शास्त्री पैरामेडिकल काउंसिल उत्तर प्रदेश

Head Office: 2nd Floor Sunil Complex Near RG PG College Meerut

Syllabus

Diploma in

Operation

Theatre Technician

at the

LBSPC

Exam: June & December

(To be implemented from 2023-24 session)

LAL BHADUR SHASTRI PARAMEDICAL COUNCIL

DIPLOMA IN OPERATION THEATRE TECHNICIAN

DURATION: 02 YEARS

SYLLABUS

FIRST YEAR

TOPICS

1. Anatomy & Physiology
2. Microbiology, Elementary Pathology
3. Hygiene, Nutrition, Nutritional Disease
4. Biomedical Waste Mgt
5. First Aid
6. Disaster Mgt
7. Elementary Nsg
8. General Pharmacology
9. Human Relations
10. Community Health Nsg & Communicable Diseases
11. Hygiene chemicals and its uses
12. Equipment management

SECOND YEAR

1. Care of patient undergoing surgery (Pre and Intra operative), after care of Equipment.
2. Anesthesia drugs, Equipment & special operation theatre tray set up.
3. Infection control in operation theatre,
4. Role of the Theatre Assistant.
5. Surgical procedures and monitoring Operation Theatre Ethics,
6. Safety for Operation room, Operation Theatre Techniques,
7. Surgical procedures (disinfection on sterilization)
8. Care of patient in Emergencies

FIRST YEAR					
PAPER	DURATION OF STUDY	SUBJECTS	DURATION OF PAPER	MARKS	
PAPER I	105	Anatomy & Physiology	03 HRS	30	100
	15	Microbiology, Elementary Pathology		15	
	41.25	Hygiene, Hygiene chemicals and its uses Nutrition, Nutritional Disease		10	
	8.25	Biomedical Waste Mgt		5	
	120	First Aid		10	
	7.5	Disaster Mgt		5	
		INTERNAL ASSESMENT		25	
PAPER II	206.25	Elementary Nsg	03 HRS	40	100
	37.5	General Pharmacology		10	
	11.25	Human relations		5	
	37.5	Community Health Nsg & Communicable diseases		10	
	7.5	Equipment management		10	
		INTERNAL ASSESMENT		25	
Practical	600	Fundamental Nsg - Bed making & Tray setting	03 HRS	40	100
		Medical Equipment		10	
		First Aid - Bandaging, Casualty Carriage Thomas splint		25	
		Ward Marks		25	
SECOND YEAR					
PAPER	DURATION OF STUDY	SUBJECTS	DURATION OF PAPER	MARKS	
PAPER I	225	Care of patient undergoing surgery (Pre and Intra operative), After care of Equipment	03 HRS	55	100
	75	Anaesthesia drugs, Equipment & special operation theatre tray set up		20	
		INTERNAL ASSESMENT		25	
PAPER II	187.5	Infection control in operation theatre, Role of the Theatre Assistant	03 HRS	25	100
	112.5	Surgical procedures and monitoring Operation Theatre Ethics, safety for Operation room , Operation Theatre Techniques, surgical procedures (disinfection onsterilization) care of patient in Emergencies		50	
		INTERNAL ASSESMENT		25	
Practical	600	Essential Critical Care and nursing skills (Advanced procedure)	03 HRS	75	100
		INTERNAL ASSESMENT		25	

S NO	COURSE CONTENT OF FIRST YEAR	NO OF PERIODS (45 MINS EACH)	NO OF HOURS
FIRST YEAR PAPER I			
1	HISTORY OF NURSING :	04	03 Hrs
(i)	Pre-Nightingale reforms, St. Vincent De Paul and Mile LeGras, John Howard, Elizabeth Fry, the work of the Fleidners at Kaisersworth.	01	
(ii)	Florence Nightingale – Her life, her work in the Crimeanwar, the founding of Nursing School at St. Thomas Hospital. Her interest in India, in Military hospital and sanitation.	01	
(iii)	Contemporary developments – Discoveries of Pasteur, Lister and Koch. The relationship of nursing to hospitalreform.	01	
(iv)	Nursing in India in modern days, the introduction and growth of Nursing in India, developments of schools, examination and registration, a brief review of organizationin India today.	01	
2	ANATOMY	80	60 Hrs
(i)	Introduction - Tissues of the body	02	
(ii)	Skeletal System - The skull, the thorax, the vertebral column, thepelvic girdle, the upper limb, the lower limb	08	
(iii)	Arthrology - Types characteristics, varieties and movements. - Special joints - Sternoclavicular, acromioclavicular, shoulder, elbow, radioulnar, wrist, hip, knee, tibiofibular, ankle and joints of thehand and foot.	08	
(iv)	Myology - Muscles of head and face, chest, abdomen,back, upper and lower extremities. - Anatomical spaces.	08	
(v)	Circulatory System - Heart and blood vessels	10	
(vi)	Lymphatic system	03	
(vii)	Alimentary system - Alimentary canal and accessory organs.	05	

(viii)	Respiratory system - Respiratory passage, lungs and pleura.	05		
(ix)	Endocrine glands	05		
(x)	Urinary system - Kidney, Ureter and Urinary bladder.	05		
(xi)	Nervous system - Meninges, brain, spinal cord, nerves and their plexuses.	08		
(xii)	Organs of special senses - Tongue, nose, eye, ear and skin.	08		
(xiii)	Reproductive system - Male and female.	05		
3.	PHYSIOLOGY	60		
(i)	Circulatory system - Blood - Cardiac cycle and circulation of the blood - Blood pressure and pulse	10		45 Hrs
(ii)	Digestive system - Food - Digestion of food	04		
(iii)	Physiology of respiration	06		
(iv)	Metabolism	06		
(v)	Function of endocrine glands	10		
(vi)	Renal function	08		
(vii)	Nervous system and cerebrospinal fluid.	08		
(viii)	Taste, sight, smell and hearing.	08		
4	ELEMENTARY PATHOLOGY AND MICROBIOLOGY	20	15 Hrs	
(i)	Characteristics of bacteria, virus , fungus	02		
(ii)	Sources of infection.	02		
(iii)	Mode of spread.	02		
(iv)	Destruction of bacteria.	02		
(v)	Control of infection.	01		
(vi)	Inflammation, healing and repair.	01		
(vii)	Infection, wounds, ulcers, blisters, boils, fractures, burns,scalds, gangrene and haemorrhage.	05		

(viii)	Urine - Characteristics of normal urine, variations in diseases, collection of samples and routine tests.	02		
(ix)	Faeces - Characteristics of normal faeces, variation in diseases, collection of samples and routine tests.	02		
(x)	Sputum and vomit - Characteristics in different diseases, collection of samples.	01		
5.	HYGIENE, SANITATION AND USES OF HYGIENE CHEMICALS –	30	22.5 Hrs	
(i)	Definition and historical background.	01		
(ii)	Personal hygiene - Sleep, washing, eating and drinking, exercises, skin disease and their prevention.	02		
(iii)	Water Sources - Rain, surface, underground. Purification - Reasons, principles and methods. Sterilization - Physical and chemical methods, individual water sterilizing outfit and its use. Storage - Water bottle, chagul, pakhal, canvas, iron cisterns and water truck. Water points Water borne disease.	12		
(iv)	Water supply	05		
(v)	Spray techniques	05		
(vi)	Various hygeine chemical, their dosage & usage	05		
6.	NUTRITION AND DIETETICS	25		18.75 Hrs
(i)	Food and nutrition - Composition of food. - Common articles of diet.	02		
(ii)	Principles of Nutrition and Dietetics.	02		
(iii)	Food requirements.	03		
(iv)	Cookery - Reasons for cooking and dietetics. - Effects of different methods on cooking. - Storage of food in ward.	05		
(v)	Preparation of tray and serving of food.	02		

(vi)	Preparation of - Tea, coffee, cocoa, imperial drink, barley water, lemon squash, fruit juices. - Lockey, junket curds, buttermilk, jelly ice cream, Eggs flip, albumin water.	03	
(vii)	Calories, BMR and caloric requirements.	02	
(viii)	Common articles of diet.	01	
(ix)	Special diets.	02	
(x)	Sick room recipes.	01	
(xi)	Nutritional diseases	02	
7.	BIO MEDICAL WASTE MANAGEMENT	11	
(i)	- Definition, Hazards and infection control, Principles - Categories of BMW - Color coding - Waste management in hospital - Present scenario, System, Steps - Waste treatment and disposal - Bio safety	11	8.25 Hrs
8.	FIRST AID AND BANDAGING	160	
(i)	Definition of first aid, scope, principles and essentials, methods of approach and qualifications of a first aider.	10	
(ii)	First field dressing and shell dressing, routine dressing, bandaging including use of triangular bandage.	08	
(iii)	Fractures - Varieties, general signs and symptoms, general rules for treatment, padding of splints, individual fractures and treatment. Thomas splint.	15	120 Hrs
(iv)	Injuries to joints and muscles, sprains and strains.	07	
(v)	Wounds - Types, first aid and treatment.	12	
(vi)	Snake bite, bite by rabid animal, and stings of insects.	12	
(vii)	Haemorrhage - Varieties, arrest of external haemorrhage, arrest of haemorrhage from special regions, mouth, nose and ear.	15	
(viii)	Artificial respiration.	10	

(ix)	Asphyxia - Definition and causes.	07	
(x)	Poisons, classification, general rules for the treatment of poisoning.	20	
(xi)	Burn injury	08	
(xii)	Shock	08	
(xiii)	Effects of heat and cold.	08	
(xiv)	BLS, ATLS, ACLS	20	
9.	DISASTER MANAGEMENT	10	7.5 Hrs
(i)	Introduction, Principle, Outline plan and disaster cycle	01	
(ii)	Basics of NBC warfare	02	
(iii)	Pre hospital phase, Hospital phase, Triage	02	
(iv)	Supportive services and misc- Respond of various organization, Disaster management protocol	02	
(v)	Effects and their management, Prevention and mitigation	01	
(vi)	Preparedness and response	01	
(vii)	Present setup	01	
FIRST YEAR PAPER II			
10.	ELEMENTARY NURSING	275	206.25 Hrs
(i)	Bed making - Materials used for hospital beds and bedding. - Bed making - Special types of beds. - Positions in bed. - Moving and lifting of patients. - Additional appliances used for beds	60	
(ii)	Observation of patient's conditions - Importance of habit of observation, positions, expressions, delirium, appetite, sleep, cough, expectoration, vomit, tongue, mouth and skin, fluid intake and output. - Temperature, clinical thermometer and its care, taking of temperature, varieties of	60	

	<ul style="list-style-type: none"> - temperature. - Pulse : Definition, character, how to take pulse, abnormal pulse. - Respiration :Mechanism of normal respiration, measure rate of respiration. - Recording of temperature, pulse and respiration on charts. - Giving and writing of reports. 		
(iii)	<p>Caring of sick.</p> <ul style="list-style-type: none"> - Daily toilet of the patient, bathing in the bed and the bathroom. - Care of hair and the mouth tray. - Bed sores and tropic ulcers and their prevention. - Giving of bedpans and urinals, spittoons. - Feeding of the bed-ridden cases. 	50	
(iv)	Aspiration and continuous drainage of stomach and duodenum.	10	
(v)	Artificial feeding	05	
(vi)	Administration of oxygen.	05	
(vii)	Inhalations.	05	
(viii)	Preparation of patient for examination.	20	
(ix)	Dressings and instruments commonly used in the wards.	30	
(x)	Prepare nursing trays and trolleys.	30	
11.	PHARMACOLOGY	50	
(i)	Weights and measures.	05	37.5 Hrs
(ii)	Forms of medicament – powder, pills, lotions.	05	
(iii)	Mode of administration.	20	
(iv)	Common drugs used in OPDs and wards.	20	
12	HUMAN RELATIONS	15	
(i)	<p>Hospital Public relation management</p> <ul style="list-style-type: none"> - Introduction, Human behaviour, PR - Operation methods, KRA - Communication skills - Care of dying & dead 	07	11.25 Hrs
(ii)	<p>Doctors patient relationship</p> <ul style="list-style-type: none"> - Right & duties of patient - Right & duties of doctors - Consent 	08	

	<ul style="list-style-type: none"> - CPA - MLC - Medical ethics - The female patient 		
13	COMMUNITY HEALTH NSG & COMMUNICABLE DISEASES	50	37.5 Hrs
(i)	Health Determinants	01	
(ii)	Indicators of Health	01	
(iii)	Levels of Health Care	01	
(iv)	Primary Health Care	01	
(v)	National Health Policy, National Population Policy	01	
(vi)	National Health Programmes (i) NAMP (ii) RCH (iii) RNTCP (iv) NACP (v) Pulse Polio	08	
(vii)	Immunization schedule.	05	
(viii)	Preventable diseases - Classification and mode of spread. - Common disease and their prevention - diarrhoeas and dysenteries, malaria, rabies, round worm, small pox, tuberculosis, typhoid, typhus, venereal diseases.	15	
(ix)	Life history and prevention against housefly and mosquito.	02	
(x)	Effects of heat and cold and their prevention.	01	
(xi)	Hygiene and sanitation of ward and ancillaries.	02	
(xii)	Infection, Isolation, Disinfection methods.	02	
(xiii)	Communicable diseases: Nursing care -general management, Specific diseases : Diphtheria, measles, whooping cough, chicken pox, mumps, influenza, typhoid and paratyphoid, typhus, dysentery, food poisoning, cholera, plague, tetanus, malaria, dengue, HIV/AIDS.	10	
14.	EQUIPMENT MANAGEMENT	10	7.5 Hrs
	<ul style="list-style-type: none"> - Pulse oximeter - Nebulizer - Glucometer - ECG machine 	10	

	<ul style="list-style-type: none"> - Cardiac monitor - Defibrillator - Total patient bed side monitor - SWD - Oxygen concentrator 		
15.	PRACTICAL	600 Hrs	
(i)	General duties- <ul style="list-style-type: none"> - Tour of hospital and various departments - Personal discipline. - Ward discipline and discipline of the patients - Standing orders. - Admission procedure in MI Rooms and wards. - Cleanliness of the ward, pantry and the sanitary block including materials used for cleaning. - Sick parades. - Care of the dying and the dead. 	100 Hrs	
(ii)	Must be able to <ul style="list-style-type: none"> - Clean ward and ancillaries. - Write reports - Take care of convalescent patients 	30 Hrs	
(iii)	Must be able to maintain correctly – <ul style="list-style-type: none"> - Charts. - Case sheets. - Other documents. 	30 Hrs	
(iv)	Must be conversant with - <ul style="list-style-type: none"> - Admission and discharge procedure. - Standing orders. - Storage, care and maintenance of linen, utensils, crockery and furniture. 	100 Hrs	
(v)	Local applications <ul style="list-style-type: none"> - Hot application - Application of cold. - Poultices and plasters. - Liniments, ointments, pastes and paints. 	50 Hrs	
(vi)	General procedure <ul style="list-style-type: none"> - General treatment for reducing temperature, methods of reducing temperature, sponging, cold packing, Brand's bath, ice cradling. - Application of heat, hot baths, hot sponging, radiant heat, hot wet pack, hot dry pack, vapour bath, hot air bath, and medicated bath. 	100 Hrs	

(vii)	<p>Enema and lavage</p> <ul style="list-style-type: none"> - Enema : Varieties, how to administer enema. - Flatus tube. - Lavage : Rectum, colon and gastric lavage. 	40 Hrs	
(viii)	<p>Principles of sepsis and antisepsis</p> <ul style="list-style-type: none"> - General principles, definition and methods used. - Preparations of hands and use of gloves. - Sterilization of instruments, dressings, rubber goods, utensils, ligatures and sutures, sponges, mackintosh, towels, trays, syringes. - Care and maintenance of the above. 	100 Hrs	
(ix)	<p>Disposal of waste products</p> <ul style="list-style-type: none"> - Faeces : Methods of disposal in permanent, semi permanent and temporary camps, deep and shallow trench latrines. - Urine : Methods of disposal. 	50 Hrs	
SECOND YEAR PAPER I			
16.	<p>Care of patient undergoing surgery (Pre and Intra operative), after care of Equipment : must be conversant with</p>	300	
	<ul style="list-style-type: none"> - Responsibilities of an Operating Room Assistant in OT in a surgical unit in peace and war. - Reception and preparation of patients for operations, observation of patients during operations and management of patients in the immediate post-operative period in the recovery room. - Preparation of patients for anaesthesia and positioning of patients for different operations. - Application of bandages and dressings after operations. - Methods of application of tourniquets and their dangers. - Plaster of Paris technique and preparation of plaster of Paris bandages assist in the application and removal of plaster casts. - Methods of application and uses of different types of splints. - Duties and role of ORA in a Central Sterile Supply Room (CSSR). - Duties and role of ORA in Intensive Care Units - Care of Critically ill Patients in ICU including use of 	300	225 Hrs

	<p>Ventilators</p> <ul style="list-style-type: none"> - Use, Care and Maintenance of all OT and ICU related equipment including Gas & Cylinder systems - Responsibilities in cases of Cardiac Arrest, Trauma and Resuscitation - Triage of trauma and surgical cases - Organization and function of mobile surgical units: Role in War - Familiarity with Information Technology: Computer hardware and office-based software <p>- Administrative responsibilities of Operating Room Assistant in ;</p> <ul style="list-style-type: none"> (i) Running of Operation Theatre, (ii) Allotment of duties, (iii) Maintenance of day-night duty cycles, (iv) OT scheduling and precedence of surgical cases, (v) OT Record Keeping and Workload reporting 		
17.	<p>Anaesthesia drugs, Equipment & special operation theatre tray set up: Must be conversant with –</p>	100	
	<ul style="list-style-type: none"> (a) Introduction and Concepts of Anaesthesia (b) Pre-anaesthesia Evaluation (PA Checkup) (c) Pre-anaesthesia Medication and optimization of surgical patient (d) Types of Anaesthesia incl General Anaesthesia, Neuraxial Blocks (Spinal, Epidural and Combined Spinal Epidural Anaesthesia), Regional Blocks, Local Anaesthesia and Dissociative Anaesthesia (e) Arrangement and preparation of Drugs in OT (f) Equipment preparation for anaesthesia – Anaesthesia Machines, Circuits, Monitors, Transducers, Airway devices and Pre-anaesthesia Checks (‘Cockpit Drill’). (g) Conduct of General Anaesthesia incl observation and assessment of patient (h) Preparation and arrangement for neuraxial and regional anaesthesia (j) Conduct of Neuraxial Blocks – Spinal Epidural and CSE (k) Conduct of Regional Anaesthesia and plexus Blocks 	100	75 Hrs

	<ul style="list-style-type: none"> (l) Monitored Anaesthesia Care and Conscious Sedation (m) Airway Management including Airway Emergencies – incl Difficult Airway Cart (n) Record Keeping during Anaesthesia – incl Noseworthy Charts and OT Registers (o) Mask Ventilation and Endotracheal Intubation for airway management 		
SECOND YEAR PAPER II			
18.	Infection control in operation theatre, Role of the Theatre Assistant	60	
	<p><u>Operation Theatre Work and OT Nursing.</u> Must be conversant with: -</p> <ul style="list-style-type: none"> (a) The operation theatre unit and its functioning (b) Cleanliness and sterilization of operation theatre and annexes (c) Lighting in an operation theatre, emergency lighting sets, trailer generator and lighting sets (d) Scrubbing Protocols (e) Helping surgeon and others to wash up and drape for operations, holding out cap mask, gown and gloves for surgeons and others and handling sterile articles (f) Washing, cleansing, testing, sorting and packing of gloves for sterilization (g) Preparation of dressings, gauze, swabs and packs and arranging and packing of drums for sterilization (h) Use, care, maintenance and sterilization of the commoner types of instruments, needles, sutures and ligatures used in the operating theatre (j) Use, care and maintenance of various types of surgical diathermy units, suction apparatus, endoscopes, laparoscopic instruments, surgical microscopes, headlamps, image intensifiers metallic implants. (k) Identification of instruments and methods of laying out trolley for common operations, examinations and procedures (l) Components, parts and methods of sterilization of tracheostomy sets (m) Components, parts and working of the standard operating, neurosurgical and orthopaedic tables 	60	45 Hrs
19	Surgical procedures and monitoring Operation Theatre Ethics, safety for Operation room , Operation Theatre Techniques, surgical procedures (disinfection on sterilization), care of patient in Emergencies	250	
	<u>Surgical Skills:</u> Must be trained to develop skill connected	250	187.5 Hrs

with common resuscitative procedure, general surgical operation such as:

(a) General Skills

- (i) Causation, signs and symptoms of hemorrhage and shock.
- (ii) Management of hemorrhagic Shock
- (iii) Broad principles of intravenous Fluids and blood administration and the commonly available IV Fluids.

(b) Operation Procedures: Must be able to perform independently, if reqd.

- (i) Drainage of small, superficial abscesses.
- (ii) Cleaning and suturing of small, superficial cuts, clean lacerated wound
- (iii) Dressing of dirty, contaminated wound
- (iv) Arrest of hemorrhage
- (v) Small, minor surgical procedures like excision of sebaceous cyst, corns, warts, small lipomas, ingrowing toenails
- (vi) Application of POP slabs and casts
- (vii) Urinary bladder catheterization and irrigation and emergency percutaneous suprapubic cystostomy
- (viii) Dressing of burns and scalds.
- (ix) Operative and nursing procedures for common disease of ear nose and throat viz examination of ear, nose, ear syringing, wax removal, removal of easily accessible foreign bodies in ear & nose, epistaxis control.
- (x) Common ophthalmologic procedures like eye padding and dressing, removal of corneal foreign bodies, lachrymal sac syringing.

Operative Procedures: Must be conversant with the theory & practical aspect of operative procedures in various fields & disciplines of surgery.

- (a) General Surgery: Procedures like varicocoele, circumcision, hernia, hydrocoele, ano-rectal surgery, varicose veins, amputation, surgery of breast and thyroid, abdominal incision, common operation on stomach & gall bladder, intestinal procedures, hepato-biliary surgery, head & neck surgery
- (b) Orthopaedics: Special features of orthopaedic surgery, extremity fractures,

	<p>joint reconstruction & replacement</p> <p>(c) Ophthalmology: Introduction of eye surgery, ocular trauma, cataract surgery, operative procedures of eye lid and adnexae.</p> <p>(d) Otorhinolaryngology (ENT): Introduction to ENT surgery, common surgeries on ear, nose and throat like surgery for otitis media, epistaxis, tonsillectomy, foreign body removal etc.</p> <p>(e) Plastic And Reconstructive Surgery: Special features of plastic surgery, skin grafting techniques, burns, cosmetic surgery, various flaps, hand surgery, microsurgical flaps.</p> <p>(f) Paediatric Surgery: Introduction to paediatric surgery, paediatric anesthesia, and other related common procedures.</p> <p>(g) Cardiothoracic And Vascular Surgery: Introduction to cardiothoracic and vascular Surgery, closed & open heart surgeries, CABG, Cardiac Catheterization and angioplasty, bronchoscopy.</p> <p>(h) Oncosurgery: Introduction to cancer treatment surgical principles in oncology, common surgical procedures in oncology like neck dissections, mastectomies etc</p> <p>(j) Urology: Diagnostic procedures in urology, endo-urological techniques, common open urological surgery for calculus, hydronephrosis, nephrectomy and renal transplant.</p> <p>(k) Neurosurgery: Introduction to basics, burr holes, VP shunt, Spinal surgery, craniotomies special neurosurgical techniques.</p> <p>(l) Laparoscopic Surgery: Introduction, equipment, various basic and advanced laparoscopic surgical procedures.</p> <p>(m) Transplantation: Introduction, types of transplants, various organ transplantation, introduction to post transplant management.</p>		
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- (n) Peripheral Vascular Surgery:
Introduction, types of vascular grafts,
various peripheral vascular surgical
procedures.

Resuscitation & Life Support

- (a) Basic Life Support (BLS) and Resuscitation
- (b) Advanced Cardiac Life Support (ACLS)
- (c) Advanced Trauma Life Support (ATLS)
- (d) Paediatric Advanced Life Support (PALS)
- (e) Neonatal Advanced Life Support (NALS)
- (f) Special Situations in Resuscitation – Pregnancy, children, Choking, Drowning and Hanging
- (g) Equipment used in Basic and Advanced Life Support – incl Masks, Ambu Bag, ET Tubes, Laryngoscopes, Defibrillators and Automated External Defibrillators (AED)

Critical Care and ICU Training

- (a) Principles of Critical Care
- (b) Asepsis and hand washing
- (c) Basics of Mechanical Ventilation and Care of patient on Ventilator
- (d) Endotracheal Suction and long-term airway management
- (e) Central Venous Access and Arterial Cannulation
- (f) Resuscitation and maintenance of crash carts
- (g) Cylinder and Pipeline Gas supply – running and maintenance
- (h) Use, Care and maintenance of ICU equipment incl Infusion pumps and ventilator

OT Procedure and Patient Flow in OT

- (a) OPD, PA Clinic and Pain Clinic Management
- (b) OT List preparation and dispatch
- (c) Reception of patients in OT
 - (i) Identification procedure
 - (ii) Consent confirmation
 - (iii) Documentation check
 - (iv) PAC and Lab and other investigation reports
 - (v) Premedication
 - (vi) Pre-anaesthesia counseling
 - (vii) Communication with Patient and families
 - (viii) Placement into OT according to list
- (d) Post-operative reception and monitoring
- (e) Post Anaesthesia Care Unit (PACU) protocols
- (f) Assessment of patient recovery (Aldrete scoring)
- (g) Preparation and Packing of OT linen and disposables
- (h) Maintenance and functioning of Instrument Rooms

	<u>OT Design and Medico legal Aspects</u> (a) OT Illumination (b) Electrical safety (c) Medical Attendance to female patients (d) Consent (e) Death in OT (f) Organ transplantation – medico legal aspects		
2.	PRACTICAL		600 Hrs
	General duties : <ul style="list-style-type: none"> - Manage a ward independently - Supervise and assign duties - Maintain discipline of the staff under him and the patients - Maintain all the records and submit reports and return - Must know the maintenance of accounts, diets, drugs, clothing and equipment 		100 Hrs
	Essential Critical Care and Nursing skills (Advanced procedure) : <ul style="list-style-type: none"> - Critical care & ICU training : BLS, ACLS, ATLS - CPR - Emergency recognition and response- Procedure of AdvNsg - Combat Med Care – Role in war - Anaphylaxis - Dressing - OT procedure and patient flow in OT - Eqpt, Stretcher - Patient Triage & Casualty Evacuation - OT design and medico legal aspects in OT <u>Emergency Recognition and Response:</u> Must be conversant with <ul style="list-style-type: none"> (a) Causation, sign and symptoms of hemorrhage and shock. (b) Cardiac and Respiratory Emergencies (c) Major Trauma Management (d) Broad principles of intravenous therapy and transfusions. (e) Transfusion fluids in common use, methods of transfusion, reconstitution of plasma for intravenous use. <u>Basic and Advanced Life Support:</u> <ul style="list-style-type: none"> (a) BLS, ACLS and ATLS (b) Neonatal and Paediatric Advanced Life Support (c) Life Support Equipment – Defibrillators/AED, Ambu Bag, Respiratory Circuits, Transport and ICU Ventilators, advanced monitoring systems 		500 Hrs

	<p><u>Operating Theatre work.</u> Must be conversant with: -</p> <p>(a) Assembly and dismantling of various common surgical appliances, cleaning and sterilization.</p> <p>(b) Must be conversant with the operative techniques, anaesthesia, intensive care and resuscitation and be able to assist in all common and advanced operations carried out in military hospital surgical units including eye, ENT, and all sub-specialties in surgery and anaesthesiology. Exposure and extended work in specialties of interest namely, Cardiothoracic surgery, Neurosurgery, Urosurgery, Oncosurgery, Ophthalmology, Otorhinolaryngology, Reproductive and infertility surgery, Gastrointestinal Surgery, Transplantation surgery, laparoscopic surgery and paediatric surgery.</p> <p>(c) Application of Plaster of Paris casts, Plaster of Paris Jackets and Spicas.</p>	
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TEXT BOOKS RECOMMENDED:

(i)	Sr. Nancy- Principles and Practice of Nursing, N.R Brothers, M.Y. Road. Indore
(ii)	Suzanne C. Smeltzer, Brenda G. Bare, Janice L. Hinkle, Kerry H. Cheever- Textbook of Medical-Surgical Nursing Volume-1, Wolters Kluwer India Pvt. Ltd, 501-A, Devika Tower, 6, Nehru Place New Delhi-110019
(iii)	Suzanne C. Smeltzer, Brenda G. Bare, Janice L. Hinkle, Kerry H. Cheever- Textbook of Medical- Surgical Nursing Volume-2, Wolters Kluwer India Pvt. Ltd, 501-A, Devika Tower, 6, Nehru Place New Delhi-110019
(iv)	Patricia A, Potter, RN, MSN, PhD, CMAC, FAAN, Anne Griffin Perry, RN, MSN, EdD, FAAN- Fundamentals of Nursing, Printed and bound at International Print-O-Pac-Limited C/4-11, Phase-II Extn, NOIDA-201201 (U.P)
(v)	L.C Gupta, MD, MNAMS, Abhitabh Gupta- Manual of Fist Aid, Jaypee Brothers Medical Publishers (PVT) LTD, B-# EMCA House, 23/23B Ansari Road, Daryaganj,, Post Box 7193, New Delhi-11002
(vi)	Virendra N Shgal, Govind Srivastava- Diagnosis and Treatment of Common Skin Diseases, Jaypee Brothers Medical Publishers (P) LTD New Delhi
(vii)	Lippincott Williams & Wilkins - Pharmacology, A Wolters Kluwer Company Philadelphia
(viii)	Annamma Jacob, Rekha R, Jadhav Sonali Tarachand- Pharmacology for Nurses, Jaypee Brother Medical Publishers (P) LTD New Delhi
(ix)	Virendra N Sehgal- Textbook of Clinical Dermatology, Jaypee Brother Medical Publishers (P) LTD New Delhi
(x)	S Nambi- Psychiatry for Nurses, Jaypee Brother Medical Publishers (P) LTD , B-3, EMCA House, 23/23B Ansari Road. Daryaganj Post Box 7193, New Delhi
(xi)	BT Basavanthappa- Psychiatric Mental Health Nursing, Jaypee Brother Medical Publishers (P) LTD New Delhi
(xii)	Harsh Mohan - Textbook of Pathology, Jaypee Brother Medical Publishers (P) LTD New Delhi T K Indrani- Nursing Manual of Nutrition and Therapeutic Diet, Jaypee Brother Medical Publishers (P) LTD New Delhi
(xiii)	K Park- Preventive and Social Medicine, M/s Banarsidas Bhanot, Publishers, 1167, PremNagar, Jabalpur -482001 (India)
(xiv)	Rattan Lal Ichhpujani, Rajesh Bhatia- Microbiology for Nurses, Jaypee Brother Medical Publishers (P) LTD New Delhi
(xv)	Ross and Wilson- Anatomy and Physiology, Edinburgh
(xvi)	PR Ashalatha- Text book of Anatomy and Physiology for Nurses, Jaypee Brother Medical Publishers (P) LTD New Delhi

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