

CRITICAL CARE CERTIFICATION COURSE for NURSES (4CN)

Offered by

Critical Care Foundation

Affiliated to

Critical Care Nurses Society

(Member of World Federation of Critical Care Nurses)

TITLE

CERTIFICATE COURSE IN CRITICAL CARE

PREAMBLE

An intensive care nurse is pivotal in delivering care in ICU and it is seen world over that it is the nurses' proficiency which decides the quality of care in ICU. Over all these years, since late 60s we instituted intensive care units in India, we all have felt the dire need of good quality and number of dedicated ICU nurses; but we continue to be deprived of such quality human resources in almost all ICUs in India. Various attempts have been made at various levels but those have woefully failed to achieve the desired objective especially in two tier cities and of course not to mention the smaller cities and towns. COVID-19 pandemic has glaringly exposed this deficiency in India and certainly this would have costed us dearly during these two trying years of the pandemic. The Critical Care Foundation group was self-motivated to take up this cause and prepare a rigorous training program for nurses who, after successful completion, would go back to various level III or level II ICUs with a proper frame of mind and proficiency to deliver ICU care and play a leadership role for training other nurses and organizing a culture of learning, free of tension and fear. The promoters are committed to provide highest level of training at minimum cost which is affordable. The objective also is to enhance their self-esteem and make them confident and knowledgeable ICU specialist nurses who could be easily selected by specialty hospitals in India and overseas with a respectable remuneration package.

AIM

The aim of the program is to develop Critical Care Nurses with advanced level competencies, sound Clinical Judgement and Critical thinking skills related to Critical Care Nursing applying the scientific principles, plan and implement comprehensive Nursing care.

OBJECTIVES

PRIMARY OBJECTIVE:

To Train & empower Qualified Nurses (GNM/ BSC) with knowledge and critical care competences required to provide comprehensive individualized patient centered care to critically ill patients.

SECONDARY OBJECTIVE:

To enhance communication skill and promote personality, leadership & language development.

COURSE DESCRIPTION

Certificate Course in Critical Care Nursing is a 6 months unique blended learning program designed to equip Critical Care Nurses with expertise to perform advanced level competencies and in- depth knowledge in the field of Critical Care Nursing. This Online Blended Learning Module comprises of online interactive Expert Session, few contact hours and Self-Directed Learning activities to harness Knowledge and critical thinking skills for distance learning, and clinical exposure in varied clinical areas (in the candidates' institution or in approved sites).

ADMISSION REQUIREMENT / ELIGIBILITY

- Minimum qualification: B.Sc. (Nursing) or GNM, (preferably with ICU experience)
- The course is open to all nationals subject to regulatory clearance

Entrance: No entrance examination

Intake capacity: 25 students/ batch.

COURSE REQUIREMENT

SR NO	DESIGNATION	QUALIFICATION	EXPERIENCE
1	Professor / Asso. Professor	Masters in Medical Surgical Nursing	5 years (Clinical and Teaching Inclusive)
2	Lecturer	Masters in Medical Surgical Nursing	3 years (Clinical and Teaching Inclusive)
3.	Expert Resource Person	Specialized in Intensive care	Minimum 2 years in Critical care unit

FACULTY

SRNO	NAME OF THE FACULTY	DEESIGNATION
1	Prof. Dr Jaya Kuruvilla	Principal , Founder & Past President CCNS, RFCCN
2	Ms. Pooja Nair	Asso.Prof. P.D.Hinduja College of Nursing
3	Ms. Sani George	Coordinator, CCNS
4	Ms. Sinta Mathew	Lecturer , P.D.Hinduja College of Nursing
5	Ms. Alison Biju	Tutor, P.D.Hinduja College of Nursing
6	Ms. Chaitanya Valsalan	Tutor, P.D.Hinduja College of Nursing

INSTRUCTIONAL METHODS

- Distance education with few direct contact hours and additional online learning modules. Distance learning can happen through online and offline educational e-modules.
- Additionally, it shall have asynchronous interaction between student and facilitator. The students therefore need to have basic understanding of computer applications and usage.
- It is mandatory to have minimum 90% attendance for the direct contact learning.
- The candidates will have the liberty to obtain the required clinical experience from the hospitals of their choice for most of the clinical areas with exception of two. Clinical Competency Log maintained by the students will indicate the competencies developed by the students during the period of the course.
- Internal assessment would include formative and summative assessment. Formative assessment will happen with the completion of each module. Summative assessment comprises of prefinal theory and practical exam

CONTENTS OF COURSE:

Theory

- Complete coverage of nursing critical Care syllabus
- Exposure to spoken English
- Stress on Communication and Leadership development

Clinical Training

- Bedside training in Level II or Level III ICU (Under guidance of a Mentor)

Course Material

- One Text Book on Nursing Critical Care will be given to all Registered Nurses
- Additional literature will be given as and when required.

Exit Examination for Certification

- Theory Exit Test after 3 Months: 60% score mandatory to qualify for bedside Internship
- Clinical Exit Test: 75% marks required for successful certification

After successful certification

- Successful Nurses will be recommended for employment in best Hospitals, including international and national hospitals

Registration Fee

For Indians Including SAARC Nationals Rs 37000/- Including Theory course; practical bed side clinical training, examination fee and certificate fee.

Material, Examination fee etc. **Foreign Nationals 500 USD**

ACADEMIC CALENDAR

Course duration: 6 months

Weeks available: 24 weeks

Theory Hours: 135 (75+60)

Online Theory: 75 hours

Practical: 680 hours

Preparatory days: 1 week

Examination: 1 week

SUBJECT COVERED & HOURS

Subject Code	Subject	Theory Hours	Theory Hours			Practical Hours
			Theory Hours Online Session	Lab Hours	Self-Directed Learning	
CCN01	Comprehensive Critical Care Nursing	135	60	30	45	680

CLINICAL EXPERIENCE:

Candidates may complete specified number of hours of clinical experience in a speciality area of their choice if desired or may complete clinical posting in approved local sites.

Candidates will have to complete specified number of hours in the given specialty area to qualify to appear for certifying exam.

SR. NO.	AREA/ DEPARTMENT	TOTAL HRS.
1.	General /Medical/ surgical / Neuro/ cardiac ICU	580
2.	Consolidated clinical experience	100
	Total Hours	680

**Candidates may choose to obtain clinical experience in these areas in their hospital*

MODULES

MODULE NO	MODULE	ONLINE HRS	LAB HOURS	SELF DIRECTED LEARNING HRS	TOTAL HRS
I	Introduction to Critical Care Nursing	5	2	8	15
II	Infection Prevention & Control	4	2	4	10
III	Comprehensive Critical Care Nursing	40	26	24	90
IV	Quality Assurance in Critical Care Nursing	5	-	5	10
V	Communication in Critical Care	6	-	4	10
		60	30	45	135HRS

HOURS OF INSTRUCTION

THEORY: 135 HRS (60+30+45)

PRACTICAL: 680 HRS

TOTAL= 815 Hours

MODULE I
INTRODUCTION TO CRITICAL CARE NURSING

TOTAL HOURS: (13+2=15)

LEARNING OUTCOMES	THEORY		CONTENT	SELF-DIRECTED LEARNING ACTIVITIES	EVALUATION
	Theory Hrs.	Lab Hrs.			
<ul style="list-style-type: none"> ▪ Explain the Concepts ▪ Principles of Critical Care Nursing ▪ Describe the Role of Nurse in Critical care Unit 	13	2	<ul style="list-style-type: none"> ▪ History of Critical care Nursing ▪ Concepts of Critical Care Nursing ▪ Principles of Critical Care Nursing ▪ Scope of Critical care Unit ▪ Role of Nurse in Critical care Unit ▪ Organization and planning of ICU ▪ Code of Conduct Professionalism ▪ International Patient Safety Goals ▪ Assessment of Critically ill Patient ▪ FAST HUG BD ▪ Documentation in ICU ▪ Stress & Burnout in Nurses 	<p>Draw the different structure of ICU</p> <p>Prepare a Chart on History of Critical Care Nursing & Key Mile stones</p> <p>Prepare a critical Care flow sheet</p>	<p>Perform Assessment of Critically ill patient</p> <p>Nursing Care Plan-1</p>

MODULE II
INFECTION PREVENTION & CONTROL

TOTAL (8+2=10hrs)

LEARNING OUTCOMES	THEORY		CONTENT	SELF-DIRECTED LEARNING ACTIVITIES	EVALUATION
	Theory Hrs.	Lab Hrs.			
<p>Explain standard safety Measures</p> <p>Perform Procedure in strict Aseptic technique</p> <p>Identify the role of Critical care Nurse in infection prevention& control</p>	8	2	<ul style="list-style-type: none"> ▪ Standard Safety Precautions ▪ Transmission based Precautions ▪ Isolation policies and procedures ▪ Antimicrobial Stewardship ▪ Hand Hygiene: Technique, Why, Who, How, When ▪ PPE ▪ Nosocomial infection in intensive care unit, methicillin resistant staphylococcus aureus (MRSA) ▪ Prevention of HAI: CAUTI, SSI, CRBSI, VAP Bundles ▪ Cleaning, Sterilization and Disinfection ▪ Biomedical Waste Management ▪ Role of Critical Care Nurse in Infection Prevention & control ▪ NSI, Post Exposure Prophylaxis 	<p>Activity worksheet</p> <p>Transmission Based Precaution</p> <p>Quiz Biomedical Waste Management</p> <p>What if Scenarios</p>	<p>Quiz SAQ, LAQ Educational Visit CSSD</p>

MODULE III
COMPREHENSIVE CRITICAL CARE NURSING Theory (64+26= 90Hrs)

LEARNING OUTCOMES	THEORY		CONTENT	SELF-DIRECTED LEARNING ACTIVITIES	EVALUATION
	Theory	Lab Hours			
<p>Perform assessment of patient with various Medical Surgical Disorder</p> <p>Explain the causes , pathophysiology, Clinical manifestation and Management of common Medical Surgical disorder</p>	10	05	<p><u>1.Approach to Respiratory Critical Care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Common Respiratory Disorder Airway, FB, COPD and exacerbation, Pneumonias, Croup, ARDS, Pulmonary edema, Pulmonary embolism, Status Asthmatics, Pneumothorax <p>Treatment Modalities</p> <ul style="list-style-type: none"> ▪ Airway Management. ▪ Ventilator Management: Invasive, non-invasive, long term mechanical ventilations ▪ Bronchial Hygiene: Nebulization, deep breathing exercise, chest physiotherapy, ▪ Postural drainage, Inter Costal Drainage, Thoracic surgery. ▪ Drugs Acting on Respiratory system ▪ Nursing care and Consideration 	<p>Pre reading Material</p> <p>Video Based Learning</p> <p>Diagnostic reflective sheet</p> <p>Concept Map</p> <p>Integrated Teaching</p> <p>Pathophysiology & pharmacology</p> <p>Drug sheet</p>	<p>Case based learning</p> <p>Nursing Care Plan</p> <p>Clinical Portfolio</p> <p>Focused health Assessment</p> <p>Reverse Case Study</p> <p>Bedside Clinic Proforma</p>

<p>Provide Comprehensive Nursing care based on Nursing Process</p>	<p>10</p> <p>10</p>	<p>05</p> <p>03</p>	<p><u>2. Approach to Cardiac Critical Care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Common Cardiovascular Disorder Hypertensive crisis MI, Arrhythmias, Tamponade, Shock Valvular diseases, ▪ Treatment Modalities Thrombolytic therapy, pacemaker: temporary and permanent, percutaneous transluminal coronary angioplasty, Cardioversion, IntraAortic balloon pump monitoring, Defibrillation, Cardiac surgery Coronary Artery Bypass Grafts (CABG / MICAS), Valvular surgeries, Heart Transplantation, Radiofrequency Catheter Ablation. ▪ Drugs Acting on CVS ▪ Nursing care and Consideration <p><u>3. Approach to Neuro Critical Care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Common Neurological Disorder Head Injury, CVA, CNS Infections, Cerebral Oedema, Hydrocephalus, Epilepsy, GBS Problems associated with neurological disorders: thermo 	<p>Pre reading Material</p> <p>Video Based Learning</p> <p>Diagnostic reflective sheet</p> <p>Concept Map</p> <p>Integrated Teaching</p> <p>Pathophysiology & pharmacology</p> <p>Drug sheet</p>	<p>Case based learning</p> <p>Nursing Care Plan</p> <p>Clinical Portfolio</p> <p>Focused health Assessment</p> <p>Reverse Case Study</p> <p>Bedside Clinic Proforma</p>
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	07	03	<p>regulation, Unconsciousness, Herniation syndrome</p> <ul style="list-style-type: none"> ▪ Treatment Modalities ▪ Management modalities: management of ICH, Craniotomy ▪ Drugs Acting on CNS ▪ Nursing care and Consideration <p><u>4 Approach to Nephrology & Urology Critical Care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Common Disorders ▪ AKI, CKD, Nephrotic Syndrome, Urosepsis ▪ Treatment Modalities Haemodialysis, Peritoneal Dialysis, CRRT, Renal Transplant. ▪ Drugs Acting on Renal System ▪ Nursing care and Consideration 	<p>Pre reading Material</p> <p>Video Based Learning</p> <p>Diagnostic reflective sheet</p> <p>Concept Map</p> <p>Integrated Teaching</p> <p>Pathophysiology & pharmacology</p>	<p>Case based learning</p> <p>Nursing Care Plan</p> <p>Clinical Portfolio</p> <p>Focused health Assessment</p> <p>Reverse Case Study</p> <p>Bedside Clinic Proforma</p>
	10	05	<p><u>5 Approach to GI dysfunction & Critical Care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Common Disorders Acute Liver Failure, Pancreatitis, Abdominal compartmental syndrome, Acute abdomen, Intestinal obstruction, APD, GI bleeding, Perforative Peritonitis ▪ Treatment Modalities 	<p>Drug sheet</p>	

	05		<ul style="list-style-type: none"> ▪ Drugs Acting on GI System ▪ Nursing care and Consideration <p><u>6 Approach to Endocrine Critical care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test\ ▪ Common Disorders Hypoglycaemia, Diabetic Ketoacidosis. Thyroid crisis, Myxedema, Adrenal crisis, Syndrome of Inappropriate secretion Antidiuretic Hormone (SIADH) ▪ Treatment Modalities ▪ Drugs Acting on Endocrine System ▪ Nursing care and Consideration <p><u>7 Approach to Burns Critical care</u></p> <ul style="list-style-type: none"> ▪ Review of Anatomy & Physiology ▪ Assessment and Diagnostic Test ▪ Types, classification, pathophysiology, clinical features of burns. ▪ Treatment Modalities <p>Fluid and electrolyte therapy calculation of fluids and its administration Pain management, Wound care, Reconstructive surgery</p> <p><u>8. Care in Selected Medical</u></p>	<p>Pre reading Material</p> <p>Video Based Learning</p> <p>Diagnostic reflective sheet</p> <p>Concept Map</p> <p>Integrated Teaching</p> <p>Pathophysiology & pharmacology</p> <p>Drug sheet</p>	
	05				

			<p><u>Condition</u></p> <ul style="list-style-type: none"> ▪ Poisonings ▪ DIC ▪ Tetanus ▪ Covid ▪ HIV ▪ Septic Shock ▪ MODs/ MOF ▪ Haemorrhagic situations ▪ Tropical Fever ▪ Tuberculosis ▪ Immune compromised patient <p><u>9. Care in selected Surgical condition</u></p> <ul style="list-style-type: none"> ▪ Transplantation ▪ Trauma ▪ Bleeding ▪ Pancreatic disease <p><u>10. Fluid & electrolyte imbalances</u></p> <p>Special Consideration</p> <ul style="list-style-type: none"> ▪ Pregnancy ▪ Paediatric patient 	<p>Pre reading Material</p> <p>Video Based Learning</p> <p>Diagnostic reflective sheet</p> <p>Concept Map</p> <p>Integrated Teaching</p> <p>Pathophysiology & pharmacology</p> <p>Drug sheet</p>	
	05				
		05			
	04				

MODULE IV

QUALITY ASSURANCE IN CRITICAL CARE NURSING

TOTAL (10hrs)

LEARNING OUTCOMES	THEORY	CONTENT	SELF-DIRECTED LEARNING ACTIVITIES	EVALUATION
<p>Identify Various Quality indicators in ICU</p> <p>Explain the process of Accreditation</p> <p>Participate in Nursing Excellence program</p> <p>Describe the Legal & Ethical issues in Critical care</p> <p>Conduct Nursing Audit along with Other Health Care Team Members</p>	<p>10hrs</p>	<p>Quality assurance in ICU</p> <ul style="list-style-type: none"> ▪ Quality Indicators ▪ Accreditation NABH, Nursing Excellence, JCI ▪ Nursing Audit ▪ Quality Improvement Projects ▪ Standard operating Procedures and Protocol ▪ Legal and Ethical issues in Critical care ▪ End of Life Care Issues 	<p>Prereading Material</p> <p>Case based Learning</p> <p>Ethical and Legal Issues</p> <p>Experience Sharing</p>	

MODULE V

COMMUNICATION IN CRITICAL CARE UNIT

TOTAL (10hrs)

LEARNING OUTCOMES	THEORY	CONTENT	SELF-DIRECTED LEARNING ACTIVITIES	EVALUATION
<p>Enumerate the Principles of Effective Communication</p> <p>Communicate effectively as member of Health care Team</p> <p>Perform Assessment using ISBAR communication tool</p> <p>Identify Role of Nurse in Breaking Bad news and Therapeutic Communication</p>	<p>10Hrs</p>	<ul style="list-style-type: none"> ▪ Communication Process ▪ Principles of Communication ▪ Grounds Rule for Effective Communication with patient, relatives, colleagues , administrators and physicians ▪ Communication (ISBAR/ Handover/breaking a bad news) ▪ Therapeutic Communication & Role of Nurse ▪ Team Building in ICU 	<p>Communication Origami games</p> <p>ISBAR communication Techniques</p>	<p>Perform Assessment using ISBAR</p> <p>Communication Tool.</p>

MUST KNOW COMPETENCIES IN CRITICAL CARE

SRNO.	LIST OF COMPETENCY
A	CENTRAL NERVOUS SYSTEM
	1. Neurological Assessment
	2. Monitoring Intracranial pressure
	3. Care of Extra ventricular Drain
B	CARDIOVASCULAR SYSTEM
	1. CVS Assessment
	2. Central Venous Pressure Insertion & Monitoring
	3. Arterial catheterization & Arterial Blood pressure Monitoring
	4. Arterial Blood gas Analysis
	5. Blood transfusion
	6. IV Cannula insertion & IV fluid / Bolus administration
	7. Administration of medication via Parenteral route (IM, SC, ID, Intra Cardiac) use of infusion/ syringe pump, calculation of dosages
	8. Monitoring of Pulmonary Artery pressures (PAWP/PACWP)
	9. IABP Monitoring
	10. CPR/Basic Life Support (BLS)
	11. ECG Monitoring
	12. Advance cardiac Life Support (ACLS)
	13. Assisting with temporary pacing and defibrillation
	14. Application of Sequential compression device/ flowtron/ DVT Stockings
15. Assisting with ECMO	
C	RESPIRATORY SYSTEM
	Respiratory Assessment
	Airway management
	a. Application of oropharyngeal airway
	b. Oxygen therapy via (Nasal cannula, Venturi mask, NRBM, AIRVO), High Flow Nasal Cannula
	c. Application of BIPAP/ CPAP (Continuous Positive Airway pressure)
	d. Care of tracheostomy
	e. Assisting with entacheal intubation and extubation
	f. Suctioning - Oral ,Naso, tracheal
	g. Care of patient on invasive and Non Invasive Ventilation. Troubleshooting of alarms.
h. Nebulization via mask , T-piece	
g. Bronchial Hygiene Chest physiotherapy/ prone Ventilation	
D	GASTROINTESTINAL SYSTEM
	a. GI assessment
	b. Nasogastric Tube insertion and Feeding
	c. Gastric Lavage
	d. Gastrostomy And Jejunostomy Feeding

E	ENDOCRINE SYSTEM
	Blood sugar Monitoring
F	GENTOURINARY
	Urinary Catheterization care and insertion
	Monitoring Urine output and specimen collection.
	Insertion and care of AV fistula
	Care during hemodialysis and peritoneal dialysis
CRRT	
H	INFECTION PREVENTION & CONTROL
	Scrubbing , gowning, gloving
	Standard precaution & Transmission based Precaution

	FIELD VISITS:
1.	CSSD
2.	Dialysis Unit
3.	Blood Bank
4.	Palliative Centre
5.	Emergency (Triage Corner)
6.	Diagnostic Centre
7.	Cardiac Catherization LAB

REGULATION FOR EXAMINATION

Eligibility: 90% attendance for direct contact classes and 100% clinical attendance.

The candidate has to produce evidence of having completed the clinical experience requirements.

Candidate should have secured minimum 50% marks in Internal Assessment

SCHEME OF EXAMINATION

INTERNAL ASSESSMENT

THEORY	MARKS
Module Assessment	100
Total Marks	100*
*Marks will be converted to 25	

PRACTICAL	MARKS
Case Base learning- 1	50
Clinical portfolio-1	100
Nursing Care Plan -2	50
Clinical Presentation-1	50
Total Marks	250*
*Marks will be converted to 100	

SCHEME OF EXAMINATION

Subject	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Comprehensive Critical care Nursing	3	25	75	-	100	100

EVALUATION FORMATS

EVALUATION CRITERIA FOR CASE BASE LEARNING

Sr. No.	Criteria	Max. Marks
1	Patient History and Physical Examination	5
2	Presenting Symptoms & Pathophysiology	5
3	Medical Management	2
4	Wound Care Interventions	10
5	Related Evidence Based Practices	5
6	Nursing Care Plan	15
7	Nurses Notes	5
8	Evaluation/ Conclusion	2
9	Bibliography	1
	TOTAL	50

EVALUATION CRITERIA FOR NURSING CARE PLAN

NAME OF THE STUDENT : _____

AREA OF CLINICAL EXPERIENCE : _____

(Maximum Marks 50)

Sr. No	Content	Marks allotted	Marks Obtained
1	Elicits relevant history	05	
2	Makes quick and valid assessment	08	
3	Identifies problems / needs	05	
4	Formulates nursing diagnosis	08	
5	Prioritizes the nursing diagnosis	04	
6	Plans care for any two priority needs	03	
7	List the outcome criteria	02	
8	Implements care for any two priority needs	10	
9	Evaluated the care (nurses notes based on actual care given every day)	05	
	Total Marks	50	

Remarks for improvement

Remarks by students

EVALUATION CRITERIA FOR PROJECT (CLINICAL PORTFOLIO)

SR.NO	CONTENT	MARKS
1	Aims & Objectives	10
2	Contents	
	a. Adequacy	10
	b. Relevance	10
3	Organization	10
4	Use of Evidence Based Practice	20
5	Presentation	
	a. Clarity	10
	b. Interesting	10
	c. Effective use of Visual Aid	10
	d. Overall Presentation	10
Total		100

EVALUATION CRITERIA FOR CASE PRESENTATION

Name of the student: _____

Area of clinical experience: _____

(Maximum Marks 50)

Sr. No	Content	Marks allotted	Marks Obtained
1	Assessment a) History taking b) Physical assessment	10	
2	Disease condition in detail a) Etiology, b) Pathophysiology c) Clinical features d) investigations e) Medical management	10	
3	Objectives of care	04	
4	Application of Nursing theories	06	
5	Nursing diagnosis	06	
6	Nursing management	10	
7	Conclusion	04	
	Total marks	50	

Remarks for improvement

Remarks by students

Signature of the supervisor
Date

Signature of the student
Date

REFERENCES

1. Kuruvilla J. Essentials of Critical Care Nursing. First edition. New Delhi:Jaypee Publication;2007.
2. Black J.M. Hawk, J.H. Medical Surgical Nursing – Clinical Management for Positive Outcomes. 7th ed. Elsevier; 2005
3. Brunner S. B, Suddarth D.S. The Lippincott Manual of Nursing practice. Philadelphia.: J.B.Lippincott;2012
4. Lewis, Heitkemper & Dirksen. Medical Surgical Nursing Assessment and Management of Clinical Problem .6th ed. India: Mosby; 2000.
5. Thomas Cathy H. Clinical Guide-Wound Care.5th Edition. USA: Lippincott Williams & Wilkins; 2005.
6. Theresa Porrett, Anthony McGrath. Stoma Care-Essential Clinical Skills for Nurses. UK: Blackwell Publishing Ltd;2005

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(MEMBER OF WORLD FEDERATION OF CRITICAL CARE NURSES)

ACADEMIC PLANNER

MODULE I INTRODUCTION TO CRITICAL CARE NURSING

WEEK	DATE	WEEKLY GOALS	RESOURCE PERSON	ASSESSMENT
1	3.6.2022	<ul style="list-style-type: none"> ▪ History of Critical Care Nursing ▪ Concepts of Critical Care Nursing 	Release of SDL material	Google form Reflection sheet Critical care Flow sheet Perform critical Assessment of Critically ill patient Nursing Care Plan-1
	4.6.2022	▪ <i>Principles of Critical Care Nursing</i>	Prof. Dr Jayakuruvilla	
		▪ <i>International Patient Safety Goals</i>	Ms. Pooja Nair	
2	6.6.2022	▪ Scope of Critical care Unit	SDL Prerecorded Session	
		▪ Role of Nurse in Critical care		
	8.6.2022	▪ <i>Assessment of Critically ill</i>	Dr Reshu Gupta	
		▪ <i>FAST HUG BD</i>	Dr Asif Ahmed	
	▪ <i>Documentation in CCU</i>	Dr Banambar Ray		
3	13.6.2022	<ul style="list-style-type: none"> ▪ Stress & Burnout in Nurses ▪ Organisation & Planning of ICU 	SDL Rereading material	
	15.6.2022	▪ <i>Strategies to Combat Stress in CCN</i>	Ms. Pooja Nair	
		▪ <i>Role of Nurse in Critical care Unit</i>	Ms. Sani George	
	▪ <i>Q& A session</i>			

SDL: Release of SDL Every Monday

Live Interactive Session: once a week Every Wednesday 6-8pm

Q & A session Every Saturday: Threaded Email

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ACADEMIC PLANNER

MODULE II INFECTION PREVENTION & CONTROL

WEEK	DATE	WEEKLY GOALS	RESOURCE PERSON	ASSESSMENT
4	20.6.2022	<ul style="list-style-type: none"> ▪ Standard Safety Precautions ▪ Transmission based Precautions ▪ Isolation policies and procedures 	Release of SDL Material	Google form Quiz What if Scenario
	22.6.2022	<ul style="list-style-type: none"> ▪ <i>Infection Control in ICU</i> 	Dr Diptimala	
		<ul style="list-style-type: none"> ▪ <i>Biomedical Waste Management</i> ▪ <i>Role of Care Bundles in CCU</i> 	Dr Deepak Sharma Dr Yash Javeri	
5	27.6.2022	<ul style="list-style-type: none"> ▪ Cleaning, Sterilization and Disinfection ▪ Prevention of HAI: CAUTI, SSI, CRBSI, VAP Bundles ▪ Hand Hygiene, PPE 	SDL Prerecorded Session Video	Educational Visit Report to CSSD
	29.6.2022	<ul style="list-style-type: none"> ▪ <i>Antimicrobial Stewardship</i> 	Ms. Chaitanya V	
		<ul style="list-style-type: none"> ▪ <i>Role of Critical care Nurse in Infection Prevention & Control</i> ▪ <i>Prevention of Needle stick Injury/ Post Exposure Prophylaxis</i> 	Ms. Sinta Mathew Dr Uma Hariharan	

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ACADEMIC PLANNER

MODULE IV QUALITY ASSURANCE IN ICU

WEEK	DATE	WEEKLY GOALS	RESOURCE PERSON	ASSESSMENT
6		<ul style="list-style-type: none">Quality Indicators	Release of SDL material	Google form Reflection sheet
		<ul style="list-style-type: none">Accreditation Readiness	Ms. Pooja Nair	
		<ul style="list-style-type: none">Standard operating Procedures and Protocol in ICU	SDL Prerecorded Session	
		<ul style="list-style-type: none"><i>Legal and Ethical issues in critical care</i>	Ms. Sani George	
		<ul style="list-style-type: none"><i>Nursing Audit</i>	Ms. Sinta Mathew	

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ACADEMIC PLANNER

MODULE V: COMMUNICATION IN CRITICAL CARE UNIT

WEEK	DATE	WEEKLY GOALS	RESOURCE PERSON	ASSESSMENT
7		<ul style="list-style-type: none"> ▪ Communication Process ▪ Principles of Communication 	Release of SDL material	Google form Reflection sheet <ul style="list-style-type: none"> ▪ ISBAR worksheet ▪ Team Building Games
		<ul style="list-style-type: none"> ▪ <i>Grounds Rule for Effective Communication</i> 	<i>Ms. Alison Biju</i>	
		<ul style="list-style-type: none"> ▪ <i>Communication (ISBAR/ Handover/breaking a bad news)</i> 	<i>Ms. Sani George</i>	
		<ul style="list-style-type: none"> ▪ <i>Team Building in ICU</i> 	<i>Ms. Pooja Nair</i>	

SDL: Release of SDL Every Monday

Live Interactive Session: once a week Every Wednesday 6-8pm

Q & A session Every Saturday: Threaded Email

MODULE III COMPREHENSIVE CRITICAL CARE NURSING				
6.00-6.30pm	Hemodynamic Monitoring CVP monitoring Dr. Padmakumar	Cardiac critical care Ms. Chaitanya Valsalan	Airway Management Dr Reshu Gupta	Nutrition in Critically ill Patient Dr Sammadar
6.30-7.00pm	Hemodynamic Monitoring Arterial BP Monitoring Dr Shrikant	Care of Indwelling catheter/ tubes / Drains Ms. Sani George	Methods of Oxygen Administration Ms. Sinta Mathew	Safe Transport Dr Gautam
7.00-7.30pm	ABG interpretation Dr Syed Moeid	Prevention of Needle stick Injury/ Post Exposure Prophylaxis Dr Uma Hariharan	Care of Patient on ventilator Dr Prashant (Rohtak)	Documentation in CCU Dr Banambar Ray
7.30-8.00pm	Activity Arterial & CVP wave forms under & over damping	Q & A Session Reflection: Key Takeaways	Q & A Session Reflection: Key Takeaways	Language & Team Building Ms. Pooja Nair

6.00-6.30pm	Prevention & Management Pressure Ulcer Dr Ranvir	Capnography Dr Bikram Gupta	Transfusion of Blood & Blood Products Ms. Alison Biju	Care of Comatose Patient Dr Diptimala
6.30-7.00pm	Role of Chest & Limb Physiotherapy in ICU Dr Lalit	Language Development Ms. Sinta Mathew	Best Practices in IV therapy Dr Rajesh Pandey	Sedation in ICU Dr Srikant
7.00-7.30pm	Pulse Oximetry Dr Sanjay Dhanuka	Management of Shock Dr Rungta	Non Invasive Ventilation Dr Yash Javeri	Delirium Control Ms. Sinta Mathew

7.30-8.00pm	Activity Identification Grade of Pressure Ulcer Q & A Session	Q & A Session Reflection: Key Takeaways Fluid Calculation	Reflection: Key Takeaways Case Based discussion	Q & A Session Reflection: Key Takeaways
6.00-6.30pm	CPR Basic Dr Khusrav Bajan	Crash cart maintenance policy Ms Binodini	Approach to a patient in AKI Dr Rungta	Liver failure Ms. Pooja Nair
6.30-7.00pm	CPR Advance Dr Khusrav Bajan	Drugs in ICU(Emergency) Dr Sai Prasad	Drugs in ICU (Respiratory/Endocrine) Dr Prashant Nasa	Drugs in ICU (cardiac) Dr Ritesh Shah
7.00-7.30pm	Care of Death & Dying Ms. Jessy George	Approach to Poisoning, Nursing perspectives Dr AK Singh	Snake Bite, Nursing perspectives Dr Punde	Drugs in ICU Renal/GI Dr Ritesh Shah
7.30-8.00pm	Activity Steps of CPR Q& A	Q & A Session Activity Drug Calculation	Q & A Session Reflection: Key Takeaways	Activity Drug Calculation

6.00-6.30pm	Basics of ECMO Nursing perspectives Dr Arvind Dahiya	Defibrillation & Cardioversion Dr Kedar Toraskar	Care of Paediatric Patients in ICU Dr Kundan Mittal	Early warning Signs Dr Mohan Mathew
6.30-7.00pm	End of Life Care Issues Prof. Dr Jaya Kuruvilla	Pacemaker Temporary Ms. Binodini Mishra	Language Development Ms. Sinta Mathew	Overview of Dialysis Parul Sammadder

7.00-7.30pm	Near miss events and Accidents Ms. Rimita Dey	Fluid Resuscitation Dr Banambar Ray	Disinfection & Sterilization Ms. Alison Biju	Palliative Care Ms. Sinta Mathew
7.30-8.00pm	Q & A Session	Q & A Session Reflection: Key Takeaways Fluid Calculation	Reflection: Key Takeaways Case Based discussion	Q & A Session Reflection: Key Takeaways
6.00-6.30pm	High Flow Nasal cannula Ms. Sinta Mathew	Management of Hyper/Hypokalemia Ms. Pooja Nair	Triage & Trauma Management	
6.30-7.00pm	Management of Acid base Imbalance Respiratory / Metabolic Acidosis Alkalosis Ms. Chaitanya	Arrhythmia Recognition & Management	Management of Hyper/Hyponatremia	<i>Building Resilience in Critical Care Nurse Prof. Dr Jaya Kuruvilla</i>
7.00-7.30pm	Narcotic Drug Policy	Arrhythmia Recognition & Management	Quality Indicators in ICU Fall prevention	
7.30-8.00pm				