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प्राधिकार से प्रकाशित

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भारतीय उपचर्या परिषद्

अधिसूचना

नई दिल्ली, 17 मई, 2007

फा. सं. 11-1/2007-भा.उ.प.—भारतीय नर्सिंग परिषद् अधिनियम, 1947 (1947 का 48वां) के खण्ड 16 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए भारतीय उपचर्या परिषद् एतद्वारा निम्न विनियम बनाती है :—

1. लघु शीर्ष तथा प्रवर्तन : इन विनियमों को पाठ्यक्रम और विनियम गंभीर देखभाल परिचर्या में पोस्ट बेसिक डिप्लोमा, 2005 कहा जाएगा ।

2. ये विनियम सत्र 2007-08 से प्रभावी होंगे ।

गंभीर देखभाल परिचर्या में डिप्लोमा शुरू करने के लिए मार्गनिर्देश

यह कार्यक्रम निम्न संस्थानों में शुरू किया जा सकता है :

(ए) ऐसे सरकारी (राज्य/केन्द्र/स्वायत्त) परिचर्या शिक्षण संस्थान जो परिचर्या में डिप्लोमा अथवा डिग्री कार्यक्रमों की पेशकश कर रहे हैं और जिनके मूल/संबंधनप्राप्त सरकारी अस्पताल में 'गंभीर देखभाल तथा आईसीयू सुविधाएं' हैं ।

अथवा

(बी) ऐसे अन्य गैर-सरकारी परिचर्या शिक्षण संस्थान जो परिचर्या में डिप्लोमा अथवा डिग्री कार्यक्रमों की पेशकश कर रहे हैं तथा जिनके मूल अस्पतालों में गंभीर देखभाल तथा आईसीयू सुविधाएं हैं ।

अथवा

(सी) 250-500 शय्याओं वाले ऐसे अस्पताल जिनमें 8-10 शय्याएं गंभीर देखभाल शय्याएं तथा आईसीयू हैं ।

मान्यता प्रदान किए जाने की क्रियाविधि

1. गंभीर देखभाल परिचर्या में पोस्ट बेसिक डिप्लोमा शुरू करने के इच्छुक किसी भी संस्थान को राज्य सरकार से अनापत्ति/अनिवार्यता प्रमाण-पत्र प्राप्त करना होगा । जिन संस्थानों को परिचर्या में डिप्लोमा/डिग्री पाठ्यक्रम चलाने के लिए आईएनसी द्वारा पहले ही मान्यता प्रदान की जा चुकी है उन्हें अनापत्ति/अनिवार्यता प्रमाण-पत्र प्राप्त करने की जरूरत नहीं है ।
2. परिचर्या कार्यक्रम (स्कूल/कालेज) शुरू करने के लिए संस्थान से प्रस्ताव प्राप्त होने पर आईएनसी भौतिक आधारित सुविधाओं, नैदानिक सुविधाओं तथा शिक्षण संकाय को लेकर उपयुक्तता का आकलन करने के लिए निरीक्षण करेगी जिससे कि कार्यक्रम शुरू करने की अनुमति दी जा सके ।
3. परिचर्या कार्यक्रम चलाने के लिए भारतीय उपचर्या परिषद् की अनुमति मिलने के बाद संस्थान राज्य उपचर्या परिषद् तथा परीक्षा बोर्ड/विश्वविद्यालय से अनुमोदन प्राप्त करेगा ।

4. संस्थान केवल राज्य उपचर्या परिषद् तथा परीक्षा बोर्ड/विश्वविद्यालय का अनुमोदन प्राप्त होने के बाद ही छात्रों का दाखिला करेगा।
5. भारतीय उपचर्या परिषद् कार्यक्रम आयोजित करने की अनुमति को जारी रखने के लिए लगातार दो वर्षों तक निरीक्षण करेगी।

स्टाफ व्यवस्था

1. 1 : 5 के अनुपात में पूर्णकालिक शिक्षण संकाय शिक्षण संकाय की न्यूनतम संख्या 2(दो) होनी चाहिए।
अर्हता : 1. चिकित्सीय-शल्यक्रिया विशेषज्ञता सहित एम.एससी. नर्सिंग।
2. गंभीर देखभाल परिचर्या में पोस्ट बेसिक डिप्लोमा।
अनुभव : कम से कम 3 वर्ष
2. अतिथि संकाय-संबंधित विशेषज्ञताओं में बहुविषयक्षेत्रीय

बजट

स्टाफ वेतन, अंशकालिक अध्यापकों के लिए मानदेय, लिपिकीय सहायता, संस्थान के समग्र बजट में कार्यक्रम के लिए पुस्तकालय तथा आपातक व्यवस्था के वास्ते बजटीय प्रावधान होना चाहिए।

भौतिक सुविधाएं

1. क्लासरूम-1
2. परिचर्या प्रयोगशाला--।
3. पुस्तकालय-गंभीर देखभाल, चिकित्सीय शल्यक्रियात्मक, हृदय, श्वसन, आपातक परिचर्या, बर्न्स, तंत्रिका, वृक्क प्रतिघात आदि में नवीन परिचर्या पाठ्यपुस्तकों तथा पत्रिकाओं से सुसज्जित चिकित्सीय/अस्पताल पुस्तकालय का प्रयोग करने की अनुमति।
4. शिक्षण सहायक सामग्री-निम्न के प्रयोग के लिए सुविधाएं
 - ओवरहेड प्रोजेक्टर
 - स्लाइड प्रोजेक्टर
 - वासीपी अथवा वीसीआर, वीडिओ कैसेटों सहित टीवी
 - एलसीडी प्रोजेक्टर
 - कंप्यूटर, सीडी, डीवीडी प्लेअर, डीवीडी
 - कौशल निदर्शन के लिए उपकरण (मैनिकिनस, सिम्युलेटर, माडल, नमूने आदि)
5. कार्यालय सुविधाएं :
 - टाइपिस्ट, चपरासी, सफाई कर्मचारी की सेवाएं
 - इन्फार्मेशन, उपकरण आपूर्ति आदि के लिए सुविधाएं जैसेकि
 - लेखन सामग्री
 - प्रिंटर सहित कंप्यूटर
 - जीरौक्स मशीन/रिसोग्राफ
 - टेलीफोन

नैदानिक सुविधाएं

न्यूनतम शय्या संख्या

- 250-500 शय्याएं
- आईसीयू शय्याएं : ≥ 10

दाखिले की शर्तें और उपबंध

पाठ्यक्रम में दाखिला लेने के इच्छुक छात्र को :

1. एक पंजीकृत नर्स (आरएन तथा आरएन) अथवा समतुल्य होना चाहिए।
2. उसके पास एक स्टाफ नर्स के रूप में कम से कम एक वर्ष का अनुभव होना चाहिए।
3. दूसरे देशों की नर्सों को दाखिले से पहले आईएनसी से समतुल्यता का प्रमाण-पत्र प्राप्त करना होगा।
4. शारीरिक दृष्टि से स्वस्थ होना चाहिए।
5. सीटों की संख्या—
 - 250-500 शय्याओं वाले अस्पताल (8-10 आईसीयू शय्याएं) में सीटों की संख्या = 5-10
 - 500 से अधिक शय्याओं वाले अस्पताल (20 अथवा उससे अधिक आईसीयू शय्याएं) में सीटों की संख्या = 10-20

- (xiv) गंभीर रोगियों का दाखिला और छुट्टी
 - (xv) ओजी (औरोगैस्ट्रिक) नलिका प्रवेशन
 - (xvi) तापनियमन—तापनियमन की व्यवस्था करना और नियंत्रण, हाइपोथर्मिया मशीनों का प्रयोग
 - (xvii) औषधियां खिलाना: आई/एम, IV इंजेक्शन, IV कैन्जूलेशन तथा फिक्सेशन इन्पयूजन पम्प, खुराकों की गणना, द्रवचिकित्सा का मानीटरन
 - (xviii) रुधिर और इसके घटक चढ़ाना
 - (xix) संक्रमणों को रोकने की क्रियाविधियां: हाथ धोना, विसंक्रमण तथा निर्जीवाणूकरण, निगरानी, प्यूमीगेशन
 - (xx) गंभीर देखभाल संबंधी नमूनों का संग्रह
 - (xxi) बर्न्स: आकलन, द्रव—क्रिस्टैलायड तथा कोलैयाड की गणना
 - (xxii) अंतर्गहरण और निकासी चार्ट बनाए रखना
 - (xxiii) घावों की मरहमपट्टी करना तथा अवकुंचनों की रोकथाम
 - (xxiv) पुनर्वास
- IV. अन्य क्रियाविधियां

टी. दिलीप कुमार, अध्यक्ष
[विज्ञापन III/4/102/2007-असा.]

INDIAN NURSING COUNCIL

NOTIFICATION

New Delhi, the 17th May, 2007

F.No. 11-1/2007 -INC.—In exercise of the powers conferred by Section 16 of the Indian Nursing Council Act, 1947 (48 of 1947), the Indian Nursing Council hereby makes the following Regulations namely:—

(i) **Short Title and Commencement:** — These Regulations may be called the "Post Basic Diploma in Critical Care Nursing 2005".

(ii) These regulations will become effective from the session 2007-08.

GUIDELINES FOR STARTING THE POST BASIC DIPLOMA IN CRITICAL CARE NURSING

The Programme may be offered at

(A) The Government (State/Center/Autonomous) nursing teaching institution offering diploma or degree programmes in nursing having parent/affiliated Government Hospital facilities of critical care & ICU.

Or

(B) Other non-Government nursing teaching institution offering diploma or degree programmes in nursing having parent Hospital facilities of critical care & ICU.

Or

(C) 250—500 bedded Hospital, which has a 8 : 10 beds critical care beds & ICUs

RECOGNITION PROCEDURE

1. Any institution which wishes to start post basic diploma in critical care nursing should obtain the No Objection/Essentiality certificate from the State Government. The institutions which are already recognized by INC for offering diploma/degree programmes in nursing are exempted for obtaining the No Objection/Essentiality certificate.

2. The Indian Nursing Council on receipt of the proposal from the Institution to start nursing program (School/College), will undertake the inspection to assess suitability with regard to physical infrastructure, clinical facility and teaching faculty in order to give permission to start the programme.

3. After the receipt of the permission to start the nursing programme from Indian Nursing Council, the institution shall obtain the approval from the State Nursing Council and Examination Board/ University.

4. Institution will admit the students only after taking approval of State Nursing Council and Examination Board/ University.

5. The Indian Nursing Council will conduct inspection for two consecutive years for continuation of the permission to conduct the programme.

STAFFING

1. Full time teaching faculty in the ratio of 1:5
Minimum number of teaching faculty should be 2 (two)
Qualification: (1) M.Sc Nursing with Medical Surgical Specialty
(2) Post basic diploma in critical care nursing
Experience: Minimum 3 years
2. Guest faculty: Multi-disciplinary in related specialties

BUDGET

There should be budgetary provision for staff salary, honorarium for part time teachers, clerical assistance, library and contingency expenditure for the programme in the overall budget of the institution.

PHYSICAL FACILITIES

1. Class room - 1
2. Nursing Laboratory -1
3. Library - Permission to use medical/hospital library having current nursing textbooks & journals in critical care, medical surgical, cardiac, respiratory, emergency nursing, burns, neuro, renal, trauma etc.
4. Teaching Aids - Facilities for the use of
 - * Overhead projector * Slide Projector slides
 - * TV with VCP or VCR, Video cassettes * LCD projector
 - * Computer, CDs, DVD player, DVD's
 - * Equipment for demonstration of skills (manikins, simulators, models, specimens etc.)
5. Office facilities
 - * Services of typist, peon, safai karamchari
 - * Facilities for office, equipment and supplies, such as * Stationary
 - Computer with printer
 - Xerox machine/Risograph
 - Telephone and fax

CLINICAL FACILITIES

Minimum Bed strength

- * 250—500 beds
- * ICU beds \geq 10

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 equivalent certificate from INC before admission.
4. Be physically fit.
5. No. of seats
 - Hospital which is having 250—500 beds (8—10 ICU beds) no. of seats = 5—10
 - Hospital having more than 500 beds (20 or more ICU beds) no. of seats = 10—20

ORGANIZATION OF THE COURSE

I. DURATION: Duration of the course is one academic year.

II. DISTRIBUTION OF THE COURSE :

1. Teaching: Theory & Clinical practice	42 weeks
2. Internship	4 weeks
3. Examination (including preparation)	2 weeks
4. Vacation	2 weeks
5. Public holidays	2 weeks
	52 weeks

III. COURSE OBJECTIVES :**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 critical care nursing. Further more, this course will enable them to develop skills and attitude in providing competent critical care nursing.

Specific Objectives :

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

1. Describe the concepts and principles of critical care nursing.
2. Communicate effectively with critically ill patients and their family members.
3. Perform advance cardiac life support skills.
4. Apply nursing process in caring of critically ill patients.
5. Participate effectively as a member of the health team.
6. Organize and demonstrate skills in management of critical care nursing services.
7. Make a plan for organization of critical care units.
8. Conduct research in critical care nursing.
9. Teach and supervise nurses and allied health workers.

IV. COURSE OF STUDIES :

	Theory	Practical
1. Critical Care Nursing-I (Inclusive of foundation courses)	155 Hours	Integrated Clinical Practice
2. Critical Care Nursing-II	155 Hours	
3. Supervision & Management. Clinical Teaching, Elementary Research & Statistics		1280 Hours

	Theory	Practical
(i) Supervision & Management	30 Hours	
(ii) Clinical Teaching	30 Hours	
(iii) Elementary Research & Statistics	30 Hours	
4. Internship		160 Hours
TOTAL	400 Hours	1440 Hours
• Hours distribution for theory and practice	42 weeks × 40 hours/week = 1680 hours	
• Block classes	4 weeks × 40 hours/week = 160 hours	
• Integrated theory & clinical practice	38 weeks × 40 hours/week = 1520 hours	
- (Theory 400 hrs)* Theory 6 hours /week	38 weeks × 6 hours/week = 240 hours	
- Clinical experience 34 hours/weeks	38 weeks × 34 hours/week = 1280 hours	
Internship	4 weeks × 40 hours = 160 hours.	

V. CLINICAL EXPERIENCE

Areas of clinical experience required

Clinical experience must be provided as the stipulated clinical hours. The students should be posted in Critical Care Units.

Sl. No.	Clinical Area		Weeks (38 hrs./week)
1.	Critical care units and wards	General	8 weeks
2.	Cardiac & Respiratory	Medical	6 weeks
3.	Critical Care Units	Surgical	6 weeks
4.	OTs (Cardiac, neuro, respiratory, renal, major abdominal surgeries)		4 weeks
5.	Casualty/Diagnostic test		3 weeks
6.	Neuro and trauma		4 weeks
7.	Renal		2 weeks
8.	Obstretical and pediatric emergencies		2 weeks
9.	Burns & plastic surgery		3 weeks
Internship : In any of the above critical care units			4 weeks

VI. EXAMINATION SCHEME

	Int. Ass. Marks	Ext. Ass. Marks	Total Marks	Duration (in hours)
A. Theory				
Paper I - Clinical Nursing I	50	150	200	3
Paper II - Clinical Nursing II	50	150	200	3
Paper III - Supervision & Management, Clinical Teaching, Elementary Research & Statistics	50	150	200	3
B. Practical				
Clinical Nursing (teaching & supervision to be integrated)	100	100	200	
Grand Total		250	550	800

C. CONDITIONS FOR ADMISSION TO EXAMINATION**The Student:**

1. Has attended not less than 75% of the theoretical instruction hours in each subject during the year.
2. Has done not less than 75% of the clinical practical hours. However, students should make up 100% of attendance for integrated practice experience and internship in term of hours and activities before awarding the certificate.

VII. EXAMINATION

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

VIII. STANDARD OF PASSING

1. In order to pass a candidate should obtain at least 50% marks separately in internal Assessment and external examination in each of the theory practical and papers.
2. (a) Less than 60% is Second division,
(b) 60% and above and below 75% is First division,
(c) 75% and above is Distinction.
3. Students will be given opportunity of maximum of 3 attempts for passing.

IX. CERTIFICATION

- A. **TITLE - Post Basic Diploma In Critical Care Nursing.**
- B. A diploma is awarded upon successful completion of the prescribed study programme, which will state that
 - (i) Candidate has completed the prescribed course of Critical Care Nursing
 - (ii) Candidate has completed prescribed clinical experience.
 - (iii) Candidate has passed the prescribed examination.

CRITICAL CARE NURSING - I

(Including Foundation Courses)

Description:

This course is designed to develop an understanding of the concepts, principles and practices of biological and behavioral sciences in caring for critically ill patients.

Objectives:

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

1. Describe the concept and principles of behavioral, biological and nursing sciences as applied to critical care nursing.
2. Describe the various drugs used in critical care and nurses responsibility.
3. Describe the concepts & principles of critical care nursing.
4. Identify the sources of stress and manage burnout syndrome among health care providers.
5. Identify the psychosocial problems of patients and family members and provide holistic care.
6. Apply nursing process in providing comprehensive care to critically ill patients.
7. Practice infection control measures.
8. Assess and manage pain.

9. Recognise the nutritional needs of critically ill patients and their management.
 10. Assisting patient and family to cope with emotional and spiritual distress and grief anxiety.

Theory = 155 hours

Subject	Hours	Content
(1)	(2)	(3)
Unit I	10	Psychology <input type="checkbox"/> Review <ul style="list-style-type: none"> • Individual differences • Learning, Motivation, attention & perception • Emotions • Human behavior & needs in crisis • Stress & coping in crisis situations • Leadership • Communication and IPR • Counselling • Attitudes and humanizing care
Unit II	10	Sociology <input type="checkbox"/> Review <ul style="list-style-type: none"> • Social organization & community resources • Leadership roles in community • Family and family relationships • Socio cultural influences
Unit III	10	Microbiology <input type="checkbox"/> Review <ul style="list-style-type: none"> • Immunity • Infection • Principles of asepsis, Sterilization & disinfection • Diagnostic tests in Microbiology & related nurses' responsibility • Standard safety measures & biomedical waste management
Unit IV	20	Applied Anatomy & Physiology <input type="checkbox"/> Review <ul style="list-style-type: none"> • Neurological system • Respiratory system • Cardiovascular system • Gastro intestinal system • Endocrine system • Musculoskeletal system • Genitourinary system • Reproductive system • Sensory organs
Unit V	30	Pharmacology <input type="checkbox"/> Review <ul style="list-style-type: none"> • Pharmacokinetics • Analgesics/Anti-inflammatory agents • Antibiotics, antiseptics. • Drug reaction & toxicity

(1)	(2)	(3)
		<ul style="list-style-type: none"> • Drugs used in critical care unit (inclusive of ionotropic) • Drugs used in various body systems • Blood and blood components • Principles of drug administration, role of nurses and care of drugs
Unit VI	10	<input type="checkbox"/> Introduction to Critical Care nursing <ul style="list-style-type: none"> • Historical review • Concepts of critical care nursing • Principles of critical care nursing • Scope of critical care nursing • Critical care unit set up including equipments, supplies, use and care of various type of monitors, ventilators • flow sheets
Unit VII	15	<input type="checkbox"/> Concept of Holistic care applied to critical care nursing practice <ul style="list-style-type: none"> — Psychophysiological & Psychosocial impact of critical care unit on patients: Risk factors, Assessment of patients, Critical care psychosis, Prevention & nursing care for patients affected with Psychophysiological & Psychosocial problems of critical care unit, Caring for the patient's family, family teaching — The dynamics of healing in critical care unit: — Dynamics of touch, Relaxation, Music therapy, Guided Imagery Stress and burnout syndrome among health team members
Unit VIII	5	<input type="checkbox"/> Pain Management <ul style="list-style-type: none"> • Pain & sedation in critically ill • Theories of pain, Types of pain, Pain assessment, Systemic responses to pain, Pain management, Sedation in critically ill patients, Placebo effect
Unit IX	10	<input type="checkbox"/> Infection control in intensive care unit. <ul style="list-style-type: none"> • Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard Precautions, Prophylaxis for staff
Unit X	10	<input type="checkbox"/> Introduction to Nursing Process <ul style="list-style-type: none"> • Assessment • Nursing diagnosis • Nursing care plan • Implementation • Evaluation
Unit XI	10	<input type="checkbox"/> Communication Skills & IPR <ul style="list-style-type: none"> • Process & methods • Establishing & maintaining good IPR & communication with family, staff and colleagues • Multidisciplinary team & role of nurses
Unit XII	10	<input type="checkbox"/> Guidance & Counseling <input type="checkbox"/> Nutritional Management in the critically ill patient <ul style="list-style-type: none"> • Assessing nutritional status of patient

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(1)	(2)	(3)
		<ul style="list-style-type: none"> • Implications of under nourishment in critically ill patients • Fluid & electrolyte management • Administering nutrition support, • Therapeutic diet - Various disease conditions, Total parenteral and enteral nutrition
Unit XIII	5	<input type="checkbox"/> Care of dying patients <ul style="list-style-type: none"> • Spiritual support to the dying • Grief and grieving process • Bereavement support • Organ donation & Counselling • Care of dead

CRITICAL CARE NURSING - II

Description :

This course is designed to develop an understanding of common critical conditions of cardiovascular, respiratory, neuro, gastrointestinal, renal systems, burns, trauma, pediatric & obstetric emergencies and their management.

Objectives :

The students will be able to :

1. Describe the etiology, pathophysiology, signs & symptoms investigations, medical & surgical management & complications of cardiovascular, respiratory neuro, gastrointestinal, renal systems, burns, trauma, pediatric & obstetric emergencies.
2. Describe nurses role in various diagnostic & therapeutic procedures.
3. Provide comprehensive care to patients with critical care conditions of cardiovascular, respiratory neuro, gastrointestinal, renal systems, burns, trauma, pediatric & obstetric emergencies using nursing process.

Theory = 155 Hours

Subject	Hours	Content
(1)	(2)	(3)
Unit I	15	<input type="checkbox"/> Gastrointestinal System <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of: <ul style="list-style-type: none"> — Acute Gastrointestinal Bleeding, Hepatic Disorders:-- Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, Perforative peritonitis
Unit II	10	<input type="checkbox"/> Renal System <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of: <ul style="list-style-type: none"> — Acute Renal Failure, Chronic Renal failure, Acute tubular necrosis, Bladder trauma • Management Modalities <ul style="list-style-type: none"> — Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venous hemodialysis, Renal Transplant.
Unit III	15	<input type="checkbox"/> Nervous System <ul style="list-style-type: none"> — Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of: <ul style="list-style-type: none"> — Common Neurological Disorders:

(1)	(2)	(3)
		<p>Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, Guillain-Barre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord Injury</p> <ul style="list-style-type: none"> • Management Modalities <ul style="list-style-type: none"> — Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy • Problems associated neurological disorders <ul style="list-style-type: none"> — Thermo regulation, Unconsciousness, Herniation syndrome
Unit IV	10	<p>☐ Endocrine System</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of: <ul style="list-style-type: none"> — Hypoglycemia, Diabetic ketoacidosis, Thyroid crisis, Myxedema coma, Adrenal crisis, Syndrome of Inappropriate/hypersecretion of Antidiuretic Hormone (SIADH)
Unit V	20	<p>☐ Management of other Emergency Conditions</p> <ul style="list-style-type: none"> • Trauma <ul style="list-style-type: none"> — Mechanism of injury, Thoracic injuries, Abdominal injuries, Pelvic fractures, Complications of trauma, Head injuries • Shock <ul style="list-style-type: none"> — Shock syndrome, Hypovolemic shock, Cardiogenic shock, Anaphylactic shock, Neurogenic shock, Septic shock • Systemic Inflammatory Response • The inflammatory response, Multiple organ dysfunction syndrome • Disseminated Intravascular Coagulation, Drug Overdose and Poisoning, AIDS: Acquired Immuno Deficiency Syndrome
Unit VI	25	<p>☐ Intensive Cardiothoracic Nursing</p> <p>☐ Principles of Nursing in caring for patient's with Cardiothoracic disorders</p> <ul style="list-style-type: none"> • Assessment: Cardiovascular System:— <ul style="list-style-type: none"> - Heart sounds, Diagnostic studies:-Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring; Stress test, Echo cardiography, Coronary angiography, Nuclear medicine studies • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of:— <ul style="list-style-type: none"> • Hypertensive crisis Coronary artery disease, Acute Myocardial Infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances. Aneurysms; Endocarditis, Heart failure Cardio pulmonary resuscitation - BCLS/ ACLS - Management Modalities Thrombolytic therapy, Pacemaker temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon Pulsations, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG / MICAS), Valvular surgeries, Heart Transplantation, Autoologous Blood Transfusion, Radiofrequency Catheter Ablation.
UNIT VII	20	<p>☐ Respiratory System</p> <ul style="list-style-type: none"> • Acid-base balance & imbalance

(1)

(2)

(3)

- Assessment: History & Physical Examination - Diagnostic Tests:— Pulse Oximetry, End-Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, Chest Radiography, Pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan
- Causes, pathophysiology, Clinical types, Clinical features, Prognosis, Management: medical, surgical and Nursing management of Common Pulmonary Disorders :
 - Pneumonia, Status asthmaticus, Interstitial lung disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute Respiratory Distress Syndrome (ARDS); Chest Trauma Haemothorax Pneumothorax
- Management Modalities:
 - Airway Management
- Ventilatory Management:
 - Invasive, non-invasive, long-term mechanical ventilations
- Bronchial Hygiene:
- Nebulization, deep breathing exercise, chest physiotherapy, postural drainage Inter Costal Drainage, Thoracic surgeries

15

□ BURNS

- Clinical types, classification, pathophysiology, Clinical features, assessment, diagnosis, Prognosis, Management: medical, surgical and Nursing management of burns
- Fluid and electrolyte therapy calculation of fluids and its administration
- Pain management
- Wound care
- Infection control
- Prevention and management of burn complications
- Grafts and flaps
- Reconstructive surgery
- Rehabilitation

Unit VIII

10

□ Neonatal Paediatric Nursing

- Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of
 - Neonatal emergencies
 - Assessment of newborn, Low Birth Weight infant, Asphyxia Neonatarum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Status asthmaticus
 - Congenital disorders:
 - Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertrophic pyloric stenosis, imperforate anus
- Pediatric emergencies
 - Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies
- Psychosocial issues of the child & family
- Management modalities
 - Management of hypothermia, ventilatory management

(1)	(2)	(3)
Unit IX	15	<input type="checkbox"/> Obstetrical emergencies <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic. Prognosis, Management: medical, surgical and Nursing management of: <ul style="list-style-type: none"> — Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Puerperal sepsis, obstetrical shock.

SUPERVISION AND MANAGEMENT, CLINICAL TEACHING, ELEMENTARY RESEARCH AND STATISTICS

Total Hours : 90

Section-A	Supervision & Management	-30 HRS
Section-B	Clinical Teaching	-30 HRS
Section-C	Elementary Research & Statistics	-30 HRS

Description:

This course is designed to develop an understanding of the 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 critical care unit & ICU.
3. Teach nurses and allied health workers about critical care nursing.
4. Describe research process and perform basic statistical tests.
5. Plan and conduct research in critical care nursing.

Subject	Hours	Content
(1)	(2)	(3)
Unit I	20	<p>Supervision & Management</p> <p><input type="checkbox"/> Management</p> <ul style="list-style-type: none"> * Definition & Principles * Elements of management of critical care unit : Planning, Organizing, Staffing, Reporting, Recording and Budgeting * ICU & critical care unit management : Time, material & personnel * Layout and Design of an Ideal ICU & critical care unit * Critically ill patients transport services <ul style="list-style-type: none"> - Planning of transport - Planning Men & Material for transportation (mobile van setup) - Pre-hospital care (trauma site, during transportation) <p><input type="checkbox"/> Clinical supervision</p> <ul style="list-style-type: none"> * Introduction, definition and objectives of supervision * Principles & Functions of supervision * Qualities of supervisors * Responsibilities of clinical supervisors * Practice Standards of critical care units <ul style="list-style-type: none"> - Policies and Procedures - Establishing Standing Orders and Protocols

(1)	(2)	(3)
		<ul style="list-style-type: none"> * Orientation programme for new recruits * Quality Assurance Programme in critical care units * Nursing audit
		<ul style="list-style-type: none"> <input type="checkbox"/> Performance Appraisal <ul style="list-style-type: none"> * Principles of performance evaluation * Tools of performance appraisal <ul style="list-style-type: none"> - Rating scales - Checklists - Peer reviews - Self appraisals
		<ul style="list-style-type: none"> <input type="checkbox"/> Staff development <ul style="list-style-type: none"> * Introduction & purposes * In-service education * Continuing education
Unit II	5	<ul style="list-style-type: none"> <input type="checkbox"/> Professional trends <ul style="list-style-type: none"> * Introduction * Code of Ethics, code of professional conduct and practice standards of Nursing in India * Ethical issues in critical care unit * Expanding role of the nurse: Specialist nurse, Nurse Practitioner etc * Professional organizations
Unit III	5	<ul style="list-style-type: none"> <input type="checkbox"/> Medico-Legal aspects <ul style="list-style-type: none"> * Legislations and regulations related to critical care * Consumer Protection Act (CPA) * Negligence & Malpractice * Legal responsibilities of nurses <ul style="list-style-type: none"> — Bill of right of a patient, Euthanasia — Case studies of judgment with regard to negligence of services in the Hospital * Records and Reports * Role of the nurse in Legal issues * Professional practice issues in the Critical Care Unit <ul style="list-style-type: none"> — Bioethical Issues in Critical Care: <ul style="list-style-type: none"> Ethics, Ethical principles, Withholding & withdrawing treatment, Ethical decision making in a critical care unit * Code of Professional conduct and Practice Standards
Unit IV	30	<ul style="list-style-type: none"> <input type="checkbox"/> Teaching learning process <ul style="list-style-type: none"> * Introduction and concepts * Principles of teaching and learning * Formulation of learning objectives * Lesson Planning

(1)	(2)	(3)
		<ul style="list-style-type: none"> * Teaching methods <ul style="list-style-type: none"> — Lecture — Demonstration, Simulation — Discussion — Clinical teaching methods — Micro teaching — Self learning □ Evaluation <ul style="list-style-type: none"> - Assessment of Students' <ul style="list-style-type: none"> Purposes Type Steps Tools for assessing knowledge, skill and attitude □ Use of media in teaching learning process □ Research <ul style="list-style-type: none"> * Research and research process * Types of Research * 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 critical care □ Statistics <ul style="list-style-type: none"> * Sources and presentation of Data <ul style="list-style-type: none"> - qualitative and quantitative - Tabulation: frequency distribution, percentiles - Graphical presentation * Measures of central tendency mean: median, mode * 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
Unit V	30	
0		

TEACHING LEARNING ACTIVITIES

(i) Methods of Teaching :

- ❖ Lecture
- ❖ Demonstration & Discussion
- ❖ Supervised practice
- ❖ Seminar
- ❖ Role play
- ❖ Workshop

- ❖ Conference
- ❖ Skill training
- ❖ Simulations
- ❖ Field Visits
- ❖ Research project

(ii) A. V Aids :

- ❖ Over head projector
- ❖ Slide Projector
- ❖ Black board
- ❖ Graphic Aids
- ❖ Programmed - Video shows
- ❖ Models & Specimens
- ❖ LCD projector
- ❖ Computer

(iii) Methods of Assessment :

- ❖ Written examination
- ❖ Objective type
- ❖ Short notes
- ❖ Assignments
- ❖ Case Studies/care notes
- ❖ Clinical presentation
- ❖ Seminars
- ❖ Project

ESSENTIAL CLINICAL/PRACTICAL ACTIVITIES

(i)	Patient Care Assignments		
(ii)	Writing of Nursing care plan for assigned critically ill patients		
(iii)	Writing case studies	-	5
(iv)	Case Presentations	-	5
(v)	Writing Observation report of various OT		
(vi)	Planned health teaching		3
(vii)	project		1
(viii)	Clinical teaching		3
(ix)	Drug study		2
(x)	Conduct bedside rounds		
(xi)	Prepare clinical rotation plan		
(xii)	Prepare clinical teaching plan for students		
(xiii)	Perform clinical evaluation of students/staff		
(xiv)	Unit management plan-Designing		
(xv)	Supervision techniques-Writing unit report, Performance appraisal, Guidance, Staff assignment, Material management		
(xvi)	Maintenance of Records and Reports		

Essential critical care nursing skills**I. Procedures Observed :**

- (i) Echo cardiogram

- (ii) Ultrasound
- (iii) Monitoring ICP
- (iv) CT SCAN
- (v) MRI
- (vi) Pet SCAN
- (vii) Angiography
- (viii) Cardiac cathetrisation
- (ix) Angioplasty
- (x) Various Surgeries
- (xi) Any other

II. Procedures Assisted :

- (i) Monitoring ICP
- (ii) Advance Life Support System
- (iii) Arterial Blood Gas
- (iv) ECG Recording
- (v) Arterial catheterization
- (vi) Chest tube insertion
- (vii) Endotracheal intubation
- (viii) Ventilation
- (ix) Central line, Arterial line, Cardiac pacing
- (x) Use of defibrillator, Cardiopulmonary resuscitation
- (xi) Endoscopy
- (xii) Dialysis-Hemodialysis and peritoneal dialysis
- (xiii) Intra venous pyelography (IVP)
- (xiv) EEG
- (xv) Bronchoscopy

III. Procedures Performed :

- (i) Neurological assessment; Glasgow coma scale
- (ii) Pulse oxymetry
- (iii) Arterial B P monitoring
- (iv) Venous access, ABG collection monitoring
- (v) Oxygen administration, Suctioning, Respiratory therapy, Tracheotomy toilet
- (vi) Airway Management
 - (a) Application of Oro Pharyngeal Airway
 - (b) Oxygen therapy
 - (c) CPAP (Continuous Positive Airway Pressure)
 - (d) Care of Tracheostomy
 - (e) Endotracheal Intubation
- (vii) Care of intercostal drainage
- (viii) Nebulisation
- (ix) Chest physiotherapy
- (x) Monitoring of Critically ill patients—Clinically and with monitors, CRT (Capillary Refill Time), TCC
- (xi) Gastric Lavage

- (xii) Setting of Ventilators
- (xiii) Assessment of Neonates: Identification & assessment of risk factors, APGAR Score
- (xiv) Admission & discharge of critically ill patients
- (xv) OG (Orogastric) tube insertion.
- (xvi) Thermoregulation—management of thermoregulation & control, Use of hypothermia machines
- (xvii) Administration of Drugs: I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Monitoring fluid therapy,
- (xviii) Administration of Blood and its components.
- (xix) Procedures for prevention of infections: Hand washing, disinfection & sterilization, surveillance, fumigation
- (xx) Collection of specimens related to critical care
- (xxi) Burns: assessment, calculation of fluid-crystalloid and colloid
- (xxii) Maintenance of intake and output chart.
- (xxiii) Wound dressing and prevention of contractures
- (xxiv) Rehabilitation

IV. Other Procedures:

T. DILEEP KUMAR, President

[ADVT III/4/102/2007-Exty.]