

CURRICULUM

OF

POST BASIC DIPLOMA IN

NEONATAL NURSING

Prepared in March 2015

Post Basic Diploma in Neonatal Nursing

PHILOSOPHY OF THE PROGRAM

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

We believe that

- registered nurses need to be trained in Neonatal Nursing in clinical settings in order to provide competent care to neonates.
- registered nurses need to be prepared as per the expanding roles of nurses and advances in technology for effective participation in neonatal care.

PURPOSE:

The purpose of the course is to train nurses to:

1. Provides quality care to neonates.
2. Manage and supervise care of neonates at all the three levels of care.
3. Teach nurses, allied health professionals and family members in areas related to neonatal nursing.
4. Conducts research in areas of neonatal nursing.

COURSE DESCRIPTION

The course is designed to prepare registered nurses (GNM or B.Sc.) with specialized knowledge, skills and attitude in providing advanced quality care to neonates and their families and communities at all the three levels of care.

Post Basic Diploma in Neonatal Nursing

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 neonatal nursing. Furthermore, this course will enable them to develop skills and attitude in providing competent neonatal care.

SPECIFIC OBJECTIVES:

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

1. Describe the concepts and principles of neonatal nursing.
2. Communicate effectively and foster actively a family-child relationship.
3. Demonstrate skill in providing essential newborn care.
4. Perform neonatal advance life support skills
5. Apply nursing process in caring neonates receiving intensive care.
6. Participate effectively as a member of the health team.
7. Organize and demonstrate skills in management of neonatal services.
8. Make a plan for organization of Level I, II & III neonatal units.
9. Conduct research in neonatal nursing.
10. Teach and supervise nurses and allied health workers.

ADMISSION TERMS AND CONDITIONS

The student seeking admission to this course should:

1. Be a registered nurse (R.N. &R.M.) or equivalent.
2. Possess a minimum of one year experience as a staff nurse.
3. Nurses from other countries must obtain an equivalence certificate from INC before admission.
4. Be physically fit.
5. No. of seats
 - Hospital which is having 250 – 500 beds (10 NICU beds) no. of seats = 5 -10
 - Hospital which is having 500 beds (20 or more N ICU beds) no. of seats = 10 - 20

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DURATION

Course Duration	=	1 Years
Teaching: Theory & clinical Practice	=	42 weeks
Internship	=	4 week
Examination (including preparatory leave)	=	2 weeks
Vacation	=	2 weeks
Public Holidays	=	2 weeks

52 weeks

COURSE OF INSTRUCTIONS

Sl. No.	Subject	Theory (in hrs)	Practical (in hrs)
1.	Clinical Nursing – I (Inclusive of Foundation Courses)	155	1280 (Integrated clinical practice)
2.	Clinical Nursing - II	155	
3.	Supervision and Management, Clinical Teaching, Elementary Research and Statistics	-	
	i.) Supervision and Management	30	
	ii.) Clinical Teaching	30	
	iii.) Elementary Research and Statistics	30	
4.	Internship		
	Total hours	400	1440
	Total hours = 1480 hrs		

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HOURS DISTRIBUTION FOR THEORY AND PRACTICE

- Available hours = 42 weeks x 40 hours/ week = 1680 hours
- Block Classes = 4 weeks x 40 hours/ week = 160 hours
- Integrated theory & clinical practice = 38 weeks x 40 hours/ week = 1520 hours
 - Theory hours = 38 weeks x 6 hours/ week = 240 hours
 - Clinical Experience = 38 weeks x 34 hours/ week = 1280 hours
- Internship = 4 weeks x 40 hours/ week = 160 hours

SCHEME OF EXAMINATION

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

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GENERAL RULES FOR UNIVERSITY YEARLY EXAMINATION

A. Condition for admission to Examination

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

B. Examination Body

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

C. Standard of Passing

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

CERTIFICATION

1. Title – Post Basic Diploma in **Neonatal Nursing**
2. A diploma is awarded upon successful completion of the prescribed study programme, which will state that,
 - a. Candidate has completed the prescribed course of Critical Care Nursing.
 - b. Candidate has completed prescribed clinical experience.
 - c. Candidate has passed the prescribed examination.

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CLINICAL NURSING –I
(Including Foundation Courses)

Theory: 155 hours

Course Description –This course is designed to develop an understanding of the principles of related biological and behavioural sciences and cardio-thoracic nursing.

Objectives:

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

1. Describe the principles of behavioural, biological and nursing sciences as applied to neonatal nursing.
2. Detect deviations in mothers and fetus from normal during antenatal and intranatal periods.
3. Explain the development of fetus from contraception to term.
4. Describe the role of nurse in prevention and management of high-risk neonates.
5. Describe the concepts and principles of neonatal nursing.
6. Perform neonatal advanced life support.
7. Describe levels of neonatal care and the role of nurse.
8. Describe nursing process pertaining to neonatal care.
9. Describe the physical, physiological and emotional changes occurring during antenatal & intranatal periods.

Unit	Hrs	Theory	Hrs	Practical
I	09	Psychology Review <ul style="list-style-type: none"> <input type="checkbox"/> Individual differences <input type="checkbox"/> Learning, motivation, attention and perception <input type="checkbox"/> Emotions <input type="checkbox"/> Human behaviour and needs in crisis. <input type="checkbox"/> Stress and coping in crisis situation <input type="checkbox"/> Leadership <input type="checkbox"/> Communication and IPR <input type="checkbox"/> Counselling <input type="checkbox"/> Attitudes and humanizing care 	1	Role play on Counselling of patient or relatives
II	10	Sociology Review <ul style="list-style-type: none"> <input type="checkbox"/> Social organization and community resources <input type="checkbox"/> Leadership roles in community. <input type="checkbox"/> Family and family relationship <input type="checkbox"/> Socio cultural influences on child rearing 		
III	6	Microbiology Review <ul style="list-style-type: none"> <input type="checkbox"/> Immunity <input type="checkbox"/> Infection <input type="checkbox"/> Principles of asepsis <input type="checkbox"/> Sterilization and disinfection 	4	Visit to CSSD

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Unit	Hrs	Theory	Hrs	Practical
		<input type="checkbox"/> Diagnostic tests in Microbiology & related nurses' responsibility. <input type="checkbox"/> Standard safety measures <input type="checkbox"/> Biomedical waste management		
IV	20	Applied Anatomy and physiology Review <input type="checkbox"/> Neurological system <input type="checkbox"/> Respiratory system <input type="checkbox"/> Cardiovascular system <input type="checkbox"/> Gastro intestinal system <input type="checkbox"/> Endocrine system <input type="checkbox"/> Musculoskeletal system <input type="checkbox"/> Genitourinary system <input type="checkbox"/> Reproductive system. <input type="checkbox"/> Sensory organs		
V	08	Embryology <input type="checkbox"/> Development of foetus from conception to birth <input type="checkbox"/> Fetal circulation	02	Prepare a model of fetal circulation
VI	08	Pharmacology Review <input type="checkbox"/> Pharmacokinetics <input type="checkbox"/> Analgesics / Anti inflammatory agents <input type="checkbox"/> Antibiotics, Antiseptics <input type="checkbox"/> Drug reaction & toxicity <input type="checkbox"/> Drugs used in neonatal resuscitation <input type="checkbox"/> Blood and blood components <input type="checkbox"/> Principles of drug administration, role of nurse and care of drugs	2	Drug calculation Operating <input type="checkbox"/> syringe pump <input type="checkbox"/> infusion pump <input type="checkbox"/> meter dose inhaler
VII	10	Genetics <input type="checkbox"/> Meaning of genetics and heredity <input type="checkbox"/> Menedelian laws of inheritance <input type="checkbox"/> Genetic Disorders <ul style="list-style-type: none"> • Chromosomal errors • Inborn errors of metabolism • Multifactorial disorders (sickle cell anaemia, Thalesemia, haemophilia) <input type="checkbox"/> Genetic counselling <input type="checkbox"/> Nurses' role in genetic counselling.		
VIII	10	Community Health <input type="checkbox"/> Demography and family welfare <ul style="list-style-type: none"> • Definition, meaning, population trends – global and Indian Maternal and child health services and programs • Organisation of services • CSSM/ RCH • Family welfare program 	5	Conducting survey

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Unit	Hrs	Theory	Hrs	Practical
		<input type="checkbox"/> Health education: concepts, principles, approaches and methods		
IX	25	Obstetrics Review <input type="checkbox"/> Pregnancy <ul style="list-style-type: none"> ▪ Normal ▪ High risk ▪ Obstetrical disorders <input type="checkbox"/> Labour <ul style="list-style-type: none"> ▪ Normal ▪ Abnormal <input type="checkbox"/> Normal newborn – immediate care in labour ward <input type="checkbox"/> High risk neonate – IUGR, post maturity, babies of high risk mothers <input type="checkbox"/> Drugs used in obstetrics and their implications for the foetus/neonate	5	Newborn assessment Immediate resuscitation of newborn Drug book
X	10	Introduction to Neonatal nursing <input type="checkbox"/> Definition, concepts & principles of neonatal nursing <input type="checkbox"/> Definition of terms <input type="checkbox"/> Risk factors for neonates in antenatal & intranatal period <input type="checkbox"/> Criteria for admission to NICU <input type="checkbox"/> Nursing process <input type="checkbox"/> Levels of neonatal care and role of nurse		
XI	08	Neonatal advance life support <input type="checkbox"/> Routine care <input type="checkbox"/> Initial steps <input type="checkbox"/> Bag and mask ventilation, Chest compression <input type="checkbox"/> Endo tracheal intubation <input type="checkbox"/> Drugs	2	Bag and mask ventilation Endotracheal Intubation Drug book
XII	10	Communication skills and IPR <input type="checkbox"/> Process and methods <input type="checkbox"/> Establishing and maintaining good IPR and communication with family, staff and colleagues <input type="checkbox"/> Multidisciplinary team and role of nurses <input type="checkbox"/> Guidance and counselling		

BIBLIOGRAPHY**A. Psychology**

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2. Dodge Fernald and Peter S. Fernald, Introduction to Psychology, AITBS.
3. Jacob Anthikad, Psychology for Graduate Nurses, Jaypee.
4. Morgan C.T. & King, Introduction to Psychology, Megrow bill international.

B. Sociology

1. Sachadeva Y.V., An introduction to sociology, kithab mahal : Allahabad.

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3. K.P.Pothen, S.Pothen, Sociology for Nurses, N.R.Brothers, Indore.
4. C.N. Shankar Rao Principals of sociology with introduction to social thoughts, S Chand E Company Publishers
5. Dr.N.H.Groenman, Dr.O D'aslevin, M A Bockenham, Social and Behvioural sciences for Nurses, Campanion Press Ltd.

C. Microbiology

1. Bernard D. Davis, Rentap Dalbecco Herman N. Eisen & Harold S. Ginsberg, "Microbiology", A Harper International edition.
2. Hug L. L Moffet, "Clinical microbiology", J. B. Lippincott Co.
3. Macbie and Mecartney, (1980), "Medical microbiology" Printed.
4. P. Ananthanarayan and C. K. Jayarm Panikar, "Textbook of microbiology", Orient Longman Company Ltd.

D. Anatomy and Physiology

1. Waugh, Anne, "Ross & Wilson's Anatomy & Physiology in health & illness", Churchill Livingstone.
2. Tortora, "Principles of Anatomy & Physiology," Wiley inter.
3. Chaurasia, B.D. "Human Anatomy", , CBS publishers.
4. Sembulingam, "Essentials of Medical Physiology," J.P. Publications.
5. Guyton and Hall, "Textbook of Medical Physiology," A Prism Pvt.Ltd.

E. Embryology

1. Data AK. Essental of Human Embryology. Mumbai. Current Books International Compamny.

F. Pharmacology

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and pharmacotherapeutics, Popular Prakashan Mumbai.
2. K D Tripathi: Essentials of medical pharmacology, Jaypee Brothers, Bangalore.
3. Chatterjee K, Topol E.J. Cardiac Drugs Paperback , Jaypee Publisher
4. Lippincott Williams and Wilkins, Nurses Drug Guide

G. Genetics

1. S Mandal: Fundamentals of Human Genetics II Edition New Central Book Agency, Kolkota.
2. S D Gangane : Human Genetics II Edition, Saurabh Printers, Noida..
3. Jorde Carey BamshadWhite : Medical Genetics, Mosby.
4. P C Winter, G Hickey: Instant notes in genetics, Viva books Pvt Ltd, New Delhi.
5. Mary B Mahowald , et al : Genetics in the clinic, Mosby Philadelphia..
6. Robert F Muller, Ian D Young : Emery's elements of medical genetics, Churchill Livingstone, Philadelphia
7. Moore, Keith L: Developing Human Clinically oriented Embryology, W B Saunders company, Philadelphia.

H. Community Health

1. K.Park Essentials of community Health Nursing
2. Rao Kasturi An introduction to Community health Nursing .publications
3. Stanthope Lancaster ,Community Health Nursing Process & practise ,Popular publication.
4. Basavanthappa B.T, Community Health Nursing.

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5. Sathe, Epidemiology & management of Health Care, Popular publications.
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7. Lancaster, Community Health Nursing Process and Practice for promoting Health ,Mosby Publications

I. Obstetrics

1. Datta DC. Textbook of Obstetrics, Calcutta, New Central Book Agency (P) Ltd.

J. Neonatal Nursing

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2. Marlow Dorothy & Redding. Textbook of Paed. Nsg. Harbarcourt India ltd. New Delhi
3. Parthasarathy et al. IAP Textbook of Paediatrics. Jaypee bros., New Delhi.
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K. Communication and Nursing Process

1. The Lippincott Manuel of Nursing Practice, Nettina, Sandra, Lippincott Williams and Wilkins, Philadelphia.
2. Potter A.P., Perry A.G, Fundamentals of Nursing, C.V.Mosby company.
3. Koziar B et al, Fundamentals of Nursing concepts, process and practice, Pearson education Inc.
4. Brunner and Suddarth Test book of Medical surgical nursing
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6. Wilkinson,J. M.&Leuven, K.V .Fundamental of Nursing, Theory Concepts and Applications. Davis Company: Philadelphia.

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SCHEME OF EXAMINATION

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

INTERNAL ASSESSMENT

(25 MARKS)

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

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CLINICAL NURSING –II

Theory: 155 hours

Description:

This course is designed to develop an understanding of the principles of nursing management of normal, high risk and sick neonates.

Objectives:

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

1. Define concepts and trends in neonatal care.
2. Explain feeding of normal and low birth babies.
3. Enumerate policies and procedures for prevention of infections in NICU.
4. Describe the reaction and management of parents on admission of a baby to NICU.
5. Discuss nursing process pertaining to common medical and surgical problems in Neonates.
6. Describe nurses role in various investigations and procedures carried out on Neonates.

Unit	Hours	Subject	Hours	Practical
I	15	Introduction <ul style="list-style-type: none"> <input type="checkbox"/> Principles of Neonatal Nursing <input type="checkbox"/> Attributes of a neonatal nurse <input type="checkbox"/> Normal mother-baby relationship <input type="checkbox"/> Impact of birth of a sick/abnormal baby on the family <input type="checkbox"/> Reaction of parents to the admission of their baby to NICU <input type="checkbox"/> Grief process <input type="checkbox"/> Causes, effects and management of stress <input type="checkbox"/> Personal and Social problems of the family 		
II	18	Normal Newborn <ul style="list-style-type: none"> <input type="checkbox"/> Definitions and terminology <input type="checkbox"/> Examination of newborn <input type="checkbox"/> Recognition of danger signs in a baby <input type="checkbox"/> Common minor neonatal disorders <input type="checkbox"/> Care of normal newborns <ul style="list-style-type: none"> • Immediate care • Routine care – Transition care • Daily care – Home car <input type="checkbox"/> Physiological adaptation of the neonate <input type="checkbox"/> Thermoregulation and prevention of hypothermia <input type="checkbox"/> Kangaroo Mother Care (KMC) <input type="checkbox"/> Fluid and electrolyte balance 	2	New born assessment Kangaroo Mother care

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Unit	Hours	Subject	Hours	Practical
III	13	Neonatal Feeding <ul style="list-style-type: none"> <input type="checkbox"/> Physiology of breast and milk secretion <input type="checkbox"/> Principles of feeding and nutrition <input type="checkbox"/> Feeding of normal babies <input type="checkbox"/> Breast feeding and maintenance of lactation <input type="checkbox"/> Managing breast feeding problems <input type="checkbox"/> Feeding of LBW babies <input type="checkbox"/> Artificial feeding – Enteral, Parenteral, Katori spoon, Gavage feeding <input type="checkbox"/> Total Parenteral Nutrition (TPN) <input type="checkbox"/> Fluid and electrolyte therapy 	2	Feeding TPN
IV	10	Prevention of Infections <ul style="list-style-type: none"> <input type="checkbox"/> Principles of prevention of infections in NICU <input type="checkbox"/> Standard safety measures <input type="checkbox"/> Hand washing <input type="checkbox"/> Housekeeping routines <input type="checkbox"/> Disinfections and sterilization <input type="checkbox"/> Biomedical waste management 		
V	10	Low birth weight baby <ul style="list-style-type: none"> <input type="checkbox"/> Types of LBW <input type="checkbox"/> Etiology <input type="checkbox"/> Identification of preterm and small for date babies <input type="checkbox"/> Problems of preterm and small for date babies <input type="checkbox"/> Management: principles, thermoregulation, feeding, monitoring, transportation, management of specific illnesses 		
VI	30	Sick Neonate <ul style="list-style-type: none"> <input type="checkbox"/> Neonatal monitoring and observations <input type="checkbox"/> Danger signs in newborns <input type="checkbox"/> Respiratory problems: Asphyxia neonatorum, apnea, Respiratory Distress Syndrome (RDS), Meconium Aspiration Syndrome, respiratory infections <input type="checkbox"/> Neonatal sepsis <input type="checkbox"/> Neonatal jaundice <input type="checkbox"/> Convulsions and neurological disorders <input type="checkbox"/> Metabolic disorders <input type="checkbox"/> Necrotizing Enteroocolitis (NEC) <input type="checkbox"/> HIV: transmission and Anti Retroviral Therapy (ARV) <input type="checkbox"/> Emergency treatment of neonatal problems 		
VII	23	Neonate with Surgical disorders <ul style="list-style-type: none"> <input type="checkbox"/> Birth trauma <input type="checkbox"/> Congenital malformations: identification and management 	2	Pre and post operative care

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Unit	Hours	Subject	Hours	Practical
		<input type="checkbox"/> Pre and Post Operative nursing care of a neonate with various surgical procedures: <ul style="list-style-type: none"> ▪ cleft lip and palate, ▪ Esophageal atresia ▪ Tracheoesophageal fistula, ▪ Congenital hypertrophic pyloric stenosis, ▪ Hirschsprungs disease, ▪ Imperforated anus, ▪ Recto vaginal fistuala (RVF), ▪ Spina bifida, ▪ Meningo myelocele, ▪ Hydrocephalus, ▪ Exstrophy of the bladder, ▪ Congenital heart disease 		
VIII	15	Neonatal procedures <ul style="list-style-type: none"> <input type="checkbox"/> Principles of Drug therapy, administration of drugs, commonly used drugs <input type="checkbox"/> Principles of Temperature maintenance and its clinical disorders <input type="checkbox"/> Collection of specimens <input type="checkbox"/> Assisting with procedures and therapies <input type="checkbox"/> Use and maintenance of equipment <input type="checkbox"/> Neonatal records <input type="checkbox"/> Neonatal monitoring <input type="checkbox"/> Admission and transfer of sick neonates 	15	<ul style="list-style-type: none"> - Drug calculation - Administration of drugs - Specimen collection - Neonatal monitoring - Assisting with procedures and therapies

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2. Marlow Dorothy & Redding. (2001) Textbook of Paed. Nsg. 6th edn. Harbarcourt India ltd. New Delhi
3. Parthasarathy et al. (2000) IAP Textbook of Paediatrics. Jaypee bros., 2 nd ed. New Delhi.
4. Vishwanathan & Desai. (1999) Achar's Textbook of Paediatrics 3rd ed. Orient Longman.Chennai.
5. Wong Dona et al. Whaley & Wong's Nursing care of infants & children.6th edn. Mosby co.,Philadelphia.

CLINICAL NURSING –II**SCHEME OF EXAMINATION**

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

INTERNAL ASSESSMENT**(25 MARKS)**

Sr. No	Item	Marks allotted	Weightage (%)	Marks out of 25
1.	First term Exam	50	20	5.0
2.	Pre-final Exam	75	30	7.5
3.	Assignments			
	a) Seminar	25	20	5.0
	b) Journal – Interventions	25	20	2.5
4.	Attendance		10	2.5
	Total	175	100	25

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SUPERVISION AND MANAGEMENT, CLINICAL TEACHING, ELEMETARY RESEARCH AND STATISTICS

Theory: 90 hours

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

Objectives:

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

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

Section A: Supervision and Management

30 hrs

Unit	Hrs	Theory	Hrs	Practical
I	15	<p>Supervision and management</p> <ul style="list-style-type: none"> □ Management <ul style="list-style-type: none"> ▪ Definition ▪ Principles ▪ Elements of management of neonatal unit – planning, organizing, staffing, reporting, recording and budgeting. ▪ NICU management – time, material and personnel. ▪ Layout and design of a cardio thoracic unit and NICU ▪ Neonatal transport services- planning of transport of neonates ▪ Planning of men & material for transportation ▪ An ideal transport incubator □ Clinical supervision <ul style="list-style-type: none"> ▪ Introduction, definition and objectives of supervision ▪ Principles and functions of supervision ▪ Qualities of supervisors ▪ Responsibilities of clinical supervisors ▪ Practical standards of Cardio thoracic units. <ul style="list-style-type: none"> - Policies and procedures - Establishing standing orders and protocols ▪ Orientation programme for new recruits. □ Quality Assurance programme in cardio thoracic units <ul style="list-style-type: none"> ▪ Nursing Audit ▪ ISO, NABH , JCI accreditation 	5	<p>Visit to Mobile coronary unit</p> <p>Preparation of</p> <ul style="list-style-type: none"> - SOPs - Performance appraisal tool

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Unit	Hrs	Theory	Hrs	Practical
		<input type="checkbox"/> Performance appraisal <ul style="list-style-type: none"> ▪ Principles of performance evaluation ▪ Tools of performance appraisal – rating scales, checklist, peer reviews, self appraisal <input type="checkbox"/> Staff development <ul style="list-style-type: none"> ▪ Introduction and purposes ▪ In-service education ▪ Continuing education 		
II	5	Professional trends <ul style="list-style-type: none"> <input type="checkbox"/> Introduction <input type="checkbox"/> Code of ethics, code of professional conduct and practice standards of Nursing in India. <input type="checkbox"/> Ethical issues in neonatal care <input type="checkbox"/> Expanding role of the nurse: Specialist nurse, nurse practitioner etc. <input type="checkbox"/> Professional organizations. 		
III	5	Medico – Legal aspects <ul style="list-style-type: none"> <input type="checkbox"/> Legislations and regulations related to cardio thoracic care <input type="checkbox"/> Consumer Protection Act (CPA) <input type="checkbox"/> Negligence and Malpractice <input type="checkbox"/> Legal responsibilities of nurses <ul style="list-style-type: none"> ▪ Case studies of Judgement with regard to negligence of services in the Hospital <input type="checkbox"/> Medico legal aspects – abandoned babies, transfer to orphanage, adoption services, loss of neonates from the unit, presentation of cadavers, transfer to various institutions for study purpose. <input type="checkbox"/> Records and Reports <input type="checkbox"/> Role of the nurse in Legal issues 		

Section B: Clinical Teaching**30 hrs**

Unit	Hrs	Theory	Hrs	Practical
IV	20	Teaching Learning Process <ul style="list-style-type: none"> <input type="checkbox"/> Introduction and concepts <input type="checkbox"/> Principles of teaching and learning <input type="checkbox"/> Formulation of learning objective <input type="checkbox"/> Lesson planning <input type="checkbox"/> Teaching methods <ul style="list-style-type: none"> ▪ Lecture ▪ Demonstration, simulation ▪ Discussion ▪ Clinical teaching methods ▪ Microteaching 	10	Preparing lesson plans Conducting clinical teaching (3) using various teaching methods.

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		<ul style="list-style-type: none"> ▪ Self learning ☐ Evaluation- Assessment of students <ul style="list-style-type: none"> ▪ Purposes ▪ Types ▪ Steps ▪ Tools for assessing knowledge, skill and attitude ☐ Use of media in teaching learning process 		
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Section C: Elementary research and statistics

30 hrs

Unit	Hrs	Theory	Hrs	Practical
V	18	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 cardio thoracic 	2	Presentation of research proposal
	7	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 <ul style="list-style-type: none"> ▪ 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. 	3	Computer application – practicals <ul style="list-style-type: none"> • MS word • MS Excel • MS PPT

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Supervision and management

1. TNAI. Nursing Administration and Management, Academic Press: New Delhi,
2. Shakharkar, B M. Principles of Hospital Administration and Planning, Jaypee Brothers: Bangalore,
3. Pai, Pragna. Effective Hospital Management, The National Book Depot: Mumbai,
4. Basavanthappa, B T. Nursing Administration, J P Brothers Medical Publishers: NewDelhi
5. Goel, & Kumar, R. Hospital Administration and Management, Deep and Deep Publications: New Delhi,
6. Russels, C S. Management & Leadership for Nurse Managers, Jones Bartlett Publishers: London,
7. Francis, E M & Desouza, Mario. Hospital Administration, Jaypee Brothers Medical Publishers: New Delhi,
8. Hersey, P., Blanchard, H K & Johnson, E D. Management of Organizational Behavior, Pearson Education Indian Branch: New Delhi.
9. Barret, Jean. Ward Management and Teaching, English Book Society: New Delhi,

Clinical Teaching

1. Bhatia, Kamala & Bhatia B.D.: The Principles and Methods of Teaching: Delhi, Doaba House.
2. Neeraja, Nursing Education, New Delhi, Jaypee Brother.
3. Safaya, Raghunath & Shaida, B.D. Educational Theory & Practice, Delhi, Dhanpat Row & Sons.
4. Bhatia, Hans Raj Elements of Educational Psychology, Bombay, Qnent Conpman Sthed.

Elementary research and statistics

1. Polit, D.F. & Beck CT, Nursing Research, Principles and Methods, Lippincott Williams & Wilkins, Philadelphia.
2. Polit Dennis and Hunglar B P, Nursing research principles and methods, Lippincott, Philadephia.
3. Laura A.Talbot, Principles and practice of nursing research, Mosby St. Louis.
4. Dorothy YB & Marie TH, Fundamentals of research in Nursing, Jones & Bartlett Publishers, Boston.
5. Mahajan Methods in Bio statistics.
6. Trece E.W. & Treece JW: Elements of Research in Nursing, The CV Mosby Company St, Louis

SCHEME OF EXAMINATION

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

INTERNAL ASSESSMENT**(25 MARKS)**

Sr. No	Item	Marks allotted	Weightage (%)	Marks out of 25
1.	First term Exam	50	20	5
2.	Pre-final Exam	75	30	7.5
3.	Assignments			
	a) Ward management report	25	10	2.5
	b) Clinical teaching (3)	150	10	2.5
	c) Research project	100	20	5
4.	Attendance		10	2.5
	Total	400	100	25

Post Basic Diploma in Neonatal Nursing

CLINICAL NURSING (TEACHING & SUPERVISION TO BE INTEGRATED)**HOURS DISTRIBUTION FOR CLINICAL EXPERIENCE**

Sr. No.	Units / Departments	No. of weeks	No. of Hrs
1.	Labor room	4	
2.	Postnatal ward	4	
3.	Newborn Units / NICU	24	
4.	Pediatric Surgery NICU	2	
5.	Community follow up services / clinics	4	
6.	Total	38 weeks	
	Internship*	4 weeks	160

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

SCHEME OF EXAMINATION (Practical)

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

INTERNAL ASSESSMENT**(100 MARKS)**

Sr. No	Item	Marks allotted	Weightage (%)	Marks out of 100
1.	First term Exam	50	10	10
2.	Pre-final Exam	100	30	30
3.	Assignments			
	a) Clinical Evaluation (Labour Room, NICU)	400	10	10
	b) Case studies (5)	250	10	10
	c) Case Presentations (5)	250	10	10
	d) Observation report	50	5	10
	e) Nursing Care Plan	50	5	5
	f) Health Teaching (5)	125	10	5
4.	Attendance		10	10
	Total	1275	100	100