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SAMBALPUR UNIVERSITY

Regulation of M.Sc. Nursing **(2 Years Course)**

Effective from – 2020-21 onwards

**Jyotivihar, Burla
Sambalpur (Odisha)
Pin-768019**

SAMBALPUR UNIVERSITY
Regulation of M. Sc. Nursing (2 years Course)
W.E.F. - 2020-21

(Effective for the students admitted in to M.Sc. Nursing from the session 2020-21).

1. Duration of the Course and Examinations

1.1 This Two year course leading to the Master Degree in Science for Nursing shall Spread over for a period of two academic years and the University shall conduct the following examinations :

- (i) First year's University Examination
- (ii) Second year's University Examination

1.2 A candidate for M.Sc. Nursing shall be required to enroll himself/herself, under these regulations as a student in one of the colleges(s) affiliated to this University.

2. Admission

2.1 A candidate who has passed the Basic B.Sc.(N) / Post Basic B.Sc.(N) course shall be eligible for admission into the M.Sc. Nursing.

2.2 The candidate should be a registered nurse and registered Midwife or equivalent with any other State Nursing Registration Council

2.3 The minimum educational requirements shall be the passing of B.Sc.(N) / Post Basic B.Sc.(N) with minimum of 55% aggregate marks.

2.4 Minimum one year work experience after the Basic B.Sc.(N) / Post Basic B.Sc.(N) shall be needed for admission into the M.Sc. Nursing

2.5 In case of students of SC/ST category or any special category, eligibility fixed by the Govt. of Odisha/Indian Nursing Council/U.G.C. shall be adopted.

2.6 The candidate should be medically fit for seeking admission to this course.

2.5 Selection for admission shall be made on merit basis as per the marks secured by the candidate in the Entrance Test conducted by the College or Entrance Test conducted by any regulatory authorities.

2.6 Selection of candidates for admission to the course in State quota, if any, shall be done by the State Government and other seats shall be filled up at the College level as per the procedure mentioned above at 2.5.

3. Re-Admission

3.1 The following categories of students may seek readmission to Second year.

- (a) Those who have discontinued study in the previous academic year on valid ground and have obtained prior permission from the College.
- (b) Those who have fallen short of required attendance in the previous academic year.

3.2 Admission in to Second Year.

Admission to second year shall be completed within two weeks of the re-opening of the college without waiting for the publication of results of the University Examinations.

Provided further that students who could not appear University Examinations due to shortage of attendance shall be allowed to take re-admission in the same year at the beginning of the immediate subsequent academic session.

4. Qualification for admission to the First and Second University Examination.

4.1 Any registered student of the University may take admission into first year.

4.2 As it is a regular course the student can not continue any other regular course till completion of this course.

4.3 In order to clear the examination of First and Second year, the candidate is required to secure 50% mark in each of the theory and practical paper separately.

5. Pass mark and classification of successful candidate :

5.1 Aggregate marks for passing the M.Sc. Nursing Examination shall be the sum total of the aggregate of each year.

Class or division

5.2.1 Pass

- (i) Minimum marks shall be 50% in each of the Theory and Practical paper separately.
- (ii) The pass mark is sum total of internal assessment mark and theory / practical mark secured in University Examinations.

5.2.2 Second Class

Below 60% in aggregate of all the subjects in all the examinations taken together be awarded second class.

5.2.3 First Class

60% or above marks in aggregate of all the subjects in all examinations taken together be awarded First Class.

- 5.2.4 **Distinction**
A candidate who obtains 75% of marks or above in a subject(s) taking theory and practical mark together of the concerned subject(s) and passes all examinations in the first appearance shall be declared to have passed with distinction in that subject(s).

6. Provision for Back / Repeat Examination

- 6.1 If a candidate marked absent or fails in a paper(s) either in theory or practical he/she has to reappear in that paper(s) in both the theory and practical.

- 6.2 In order to clear the failed paper(s) a candidate shall be permitted to reappear those paper(s) in subsequent two chances immediate to the first attempt on payment of prescribed fees.

- 6.3 In no case a candidate shall be allowed to appear any examinations after 4 years of first registration to first University Examination.

7. Examination

- 7.1 The Examination shall be held once in a year as per scheduled specified below.

1st year Examination

2nd year Examination

- 7.2 The Examination in M.Sc. Nursing shall be conducted by means of written papers and there shall be a practical examination in concern subjects as per the Syllabus. The question shall be set in English and students are required to answer it in English.

- 7.3 The duration of examination for each theory paper shall be of three hours.

- 7.4 All practical examinations shall be in the respective clinical areas and maximum number of candidate for practical examination shall not exceed 20 per day.

- 7.5 One internal and one External Examiner shall jointly conduct the practical examination.

- 7.6 Evaluation of the dissertation is done by the Examiner prior to viva .

- 7.7 The submission of the research proposal has to done at the end of 9th month of First year and submission of dissertation final at the end of 9th month of Second year.

8. Paper setting and Examiner

- 8.1 The Board of studies shall recommend the number of paper setters/examiners to set the questions and evaluate the answer scripts.

- (25)
- 8.2 A lecturer of a college of Nursing with M.Sc. (Nursing) in concerned specialty with three years teaching experience or a lecture of a Medical College in the concerned subject with 3 year teaching experience shall be appointed as examiner/paper setters.

9. Course Instruction.

- 9.1 Details of Course instruction as per Annexure-I.
- 9.2 Scheme of Examination
- 9.2. (i) Details of scheme of Examination as per Annexure-II.

10. Attendance

- 10.1 A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject to be eligible to appear the examination.
- 10.2 A candidate must have 100% attendance in each of the practical areas (Fieldwork/Internship) before publication of the final result.

11. Application for admission to examination.

- 11.1 The application submitted by each candidate for admission to examination's (First and Final) shall contain a certificate of the candidate by the head of the institution/Principal regarding.
- (i) Good Conduct
 - (ii) Diligent Study
 - (iii) Percentage attendance
 - (iv) Passing of Internal Assessment
- 11.2 A candidate shall pay the requisite fees for admission to any examination as fixed by the University from time to time.
- 11.3 If a candidate has paid the fees for all the subjects in any examination but remained absent in the Examination shall not be refunded and he/she shall be required to pay the fees to appear the same examination.

12. Migration

- 12.1 Any registered candidate of other University of the state may migrate to this University with prior permission of the D.M.E.T, Odisha, to register in any examinations (First & Final). In such case, the marks obtained by the candidate earlier in other University shall be considered to publish his/her result.

13.	Duration of Course	2 years
	Week available per year	52 weeks
	Vacation	4 weeks
	Gazetted holidays	3 weeks
	Examinations (Including preparatory leave)	4 weeks
	Available weeks	41 weeks
	Hours per week	40 hours
	Practical	30 hours per week
	Theory	10 hours per week
	Hours available per academic year.	1640 hours
		(41 weeks × 40 hours.)

14. Publication of Result

- 14.1 The result of M.Sc. Nursing degree examination and the classes to be awarded shall determined on the basis of combined results of the First and second (Final) examinations taken together.
- 14.2 The list of these candidates who pass in 1st class and with distinction shall be arranged in order of merit and the list of their successful candidate shall arranged alphabetically and college wise. In case of a candidate obtaining distinction it shall be mentioned against his/her names in the list.
- 14.3 Each successful candidate at the Final examination of the M.Sc. Nursing course shall receive certificate in the prescribed from of Sambalpur University signed by the Vice-chancellor.

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Annexure-I
Course Instruction of M.Sc Nursing (2 Years Master Degree course)
FIRST YEAR

Subject.	Theory (in hrs.)	Practical (in hrs)
1. Nursing Education	150	150
2. Advanced Nursing Practice	150	150
3. Nursing research and statistics	150	100
4. Clinical Specialty-I***	150	650
Total Hours	600	1050

Subject	SECOND YEAR	
	Theory (In hrs)	Practical (in hrs)
1. Nursing Management	150	150
2. Nursing Research (Dissertation)	—	300
3. Clinical Specialty-II	150	950
Total Hours	300	1400

Annexure-2
Scheme of Examination of M.Sc. Nursing (2 years Master Degree course)

FIRST YEAR

Sl No	Subject	Time	Theory		Practical	
			Internal	External	Internal	External
1	Nursing Education	3 Hr	25	75	50	50
2	Advance Nursing Practice	3 Hr	25	75	—	—
3	Nursing Research & Statistic	3 Hr	25**	75*	—	—
4	Clinical Specialty***	3 Hr	25	75	100	100
Total			100	300	150	150

*Nursing Research 50 & Statistics 25.

**Nursing Research 15 & Statistics 10.

***Clinical Specialties.

SECOND YEAR

Sl No	Subject	Time	Theory		Practical	
			Internal	External	Internal	External
1	Nursing Administration	3 Hr	25	75	--	--
2	Dissertation Viva	-	--	--	100	100
3	Clinical Specialty***	3 Hr	25	75	100	100
Total			50	150	200	200

N.B.:

1. A minimum of 80% attendance in theory and practical/clinical in each subject is essential for appearing in the examination.
2. 100% attendance in practical/clinical in each clinical area is essential before award of degree.
3. 50% of minimum marks in each theory and practical paper separately is required for passing.

CONTENT

M.Sc. Syllabus.

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S. No.	Content
1	Philosophy
2	Aim
3	Objectives
4	Other Staff (Maximum Requirement)
5	Eligibility Criteria/Admission Requirements
6	Regulations for Examination
7	Guidelines for Dissertation
8	Duration
9	Scheme of Examination
	First Year
10	Nursing Education
11	Advance Nursing Practice
12	Clinical Speciality - I
	- Medical Surgical Nursing
	- Obstetric & Gynaecological Nursing
	- Child Health (Paediatric) Nursing
	- Mental Health (Psychiatric) Nursing
	- Community Health Nursing
13	Nursing Research & Statistics
	Second Year
14	Nursing Management
15	Clinical Speciality -II
	Medical Surgical Nursing
	- Cardio Vascular & Thoracic Nursing
	- Medical Surgical Nursing – Critical Care Nursing

	- Medical Surgical Nursing – Oncology Nursing
	- Medical Surgical Nursing - Neurosciences Nursing
	- Medical Surgical Nursing - Nephro- Urology Nursing
	- Medical Surgical Nursing -Orthopedic Nursing
	- Medical Surgical Nursing - Gastro Enterology Nursing
	- Obstetric & Gynaecological Nursing
	- Paediatric (Child Health) Nursing
	- Psychiatric (Mental Health) Nursing
	- Community Health Nursing
16	Annexure – I (Staffing Pattern Relaxed till 2012)

SYLLABUS AND REGULATIONS

M.Sc. (NURSING)



Published by

INDIAN NURSING COUNCIL

**8th floor, NBCC Center, Plot no. 2, Community
Center Okhla Phase-I, New Delhi - 110020**

Philosophy

National Health Policy(NHP) 2002 emphasizes the need to prepare nurses to function in super-speciality areas who are required in tertiary care institutions, entrusting some limited public health functions to nurses after providing adequate training, and increase the ratio of degree holding vis a vis diploma holding nurses.

It is observed that there is an acute shortage of nursing faculty in under graduate and post graduate nursing programme in India

Indian Nursing Council believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. .

Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society.

This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to life long learning which fosters improvement of quality care.

Aim

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings

Objectives

On Completion of the two year M.Sc Nursing programme, the graduate will be able to:-

1. Utilize/apply the concepts, theories and principles of nursing science
2. Demonstrate advance competence in practice of nursing
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.

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6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
 7. Establish collaborative relationship with members of other disciplines
 8. Demonstrate interest in continued learning for personal and professional advancement.

Other Staff (Minimum requirements)

(To be reviewed and revised and rationalized keeping in mind the mechanization and contract service)

- Ministerial
 - a) Administrative Officer 1
 - c) Office Superintendent 1
 - d) PA to Principal 1
 - e) Accountant/Cashier 1
- Upper Division Clerk 2
- Lower Division Clerk 2
- Store Keeper
 - a) Maintenance of stores 1
 - b) Classroom attendants 2
 - c) Sanitary staff As per the physical space
 - d) Security Staff As per the requirement
- Peons/Office attendants 4
- Library
 - a) Librarian 2
 - b) Library Attendants As per the requirement
- Hostel
 - a) Wardens 2
 - b) Cooks, Bearers, Sanitary Staff As per the requirement
 - c) Ayas /Peons As per the requirement
 - d) Security Staff As per the requirement
 - e) Gardeners & Dhobi (desirable) Depends on structural facilities

Eligibility Criteria/Admission Requirements:

1. The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
2. The minimum education requirements shall be the passing of :
B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
3. The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
4. Minimum one year of work experience after Basic B.Sc. Nursing.
5. Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
6. Candidate shall be medically fit.
7. 5% relaxation of marks for SC/ST candidates may be given.

Entrance/Selection test

Selection of the candidates should be based on the merit of the entrance examination held by University or competent authority.

Regulations for examination:

Eligibility for appearing for the examination:

75% of the attendance for theory and practicals. However 100% of attendance for practical before the award of degree

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% first division
- 75% and above is distinction
- For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practicals or theory paper he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

Practicals

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per speciality.
- The examination should be held in clinical area only for clinical specialities
- One internal and external should jointly conduct practical examination
- Examiner – Nursing faculty teaching respective speciality area in M.Sc nursing programme with minimum 3 years experience after M.Sc nursing.

Dissertation

Evaluation of the dissertation should be done by the examiner prior to viva
Duration: Viva-voce -minimum 30 minutes per student

Guidelines for Dissertation

Tentative Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 th month of 1 st year
2.	Submission of dissertation – Final	End of 9 th month of II nd Year

Note: - Administrative approval and ethical clearance should be obtained

A. Research Guides

a) *Qualification of Guide*

Main guide : Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years experience in teaching in the Post Graduate Programme in Nursing.

Co-Guide : A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city.)

b) *Guide - Students Ratio*

Maximum of 1:4 (including as co-guide)

c) *Research Committee*

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
Total hours for 2 years	3440 hours

Course of Instruction

	Theory (hrs)	Practical (hrs)
1st year		
Nursing education		150
Advance nursing practice	150	200
Nursing Research and statistics	150	100
*Clinical speciality -I	150	650

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Total	600	1100
II nd Year		
Nursing Management	150	150
Nursing Research(Dissertation)		300
*Clinical Speciality-II	150	950
Total	300	1400

Educational visit 2 weeks

***Clinical Speciality** – Medical Surgical Nursing (Cardio Vascular & Thoracic Nursing, Critical care Nursing, Oncology Nursing, Neurosciences Nursing, Nephro-Urology Nursing, Orthopedic Nursing, Gastro Enterology Nursing,) Obstetric & Gynaecological Nursing, Child Health (Paediatric) Nursing, Mental Health(Psychiatric) Nursing, Community Health Nursing, Psychiatric (Mental Health) Nursing etc.

Note: Students have to maintain log book for each activity during the course of study

Scheme of Examination

	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
1st year						
Nursing education	3	25	75		50	50
Advance nursing practice	3	25	75			
Nursing Research and statistics	3	25**	75*			
Clinical speciality -I	3	25	75		100	100
Total		100	300		150	150
II nd Year						
Nursing Management	3	25	75			
Dissertation & Viva					100	100
Clinical Speciality-II	3	25	75		100	100
Total		50	150		200	200

* Nursing research=50 and statistics=25

**Nursing research=15 and statistics=10

1. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt.

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the IIInd year.
9. No candidate shall be admitted to the subsequent IIInd year examination unless the candidate has passed the Ist year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiners(outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiners(outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years experience in guiding the research projects for Post Graduate students of Nursing.

Admission Strength

Annual admission strength for M.Sc (N) Programme should have prior sanction/permission from the Indian Nursing Council on the basis of clinical, physical facilities and teaching faculty.

Health Services

There should be provisions for the following health services for the students.

- (a) An annual medical examination.
- (b) Vaccination against Tetanus, hepatitis B or any other communicable disease as considered necessary.
- (c) Free medical care during illness and / provision of health insurance should be made.
- (d) A complete health record should be kept in respect of each individual students. The question of continuing the training of a student, with long term chronic illness, will be decided by the individual college.

CURRICULUM

NURSING EDUCATION

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Placement : 1st Year

Hours of Instruction
Theory 150 Hours
Practical 150 Hours
Total : 300 Hours

Course Description

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

Objectives

At the end of the course, students will be able to :

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.

14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude.

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		Introduction : <ul style="list-style-type: none"> □ Education :Definition, aims, concepts, philosophies & their education implications, □ Impact of Social, economical, political & technological changes on education: <ul style="list-style-type: none"> • Professional education • Current trends and issues in education • Educational reforms and National Educational policy, various educational commissions-reports • Trends in development of nursing education in India
II	20	30	Teaching – Learning Process <ul style="list-style-type: none"> □ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. □ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives □ Competency based education(CBE) and outcome based education(OBE) □ Instructional design: Planning and designing the lesson, writing lesson plan : meaning, its need and importance, formats. □ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role- play(socio-drama), clinical teaching methods, programmed instruction, self directed learning(SDL), micro teaching, computer assisted instruction(CAI), computer assisted learning (CAL)

Units	Hours		Course Content
	Theory	Practical	
III	10	10	Instructional media and methods <ul style="list-style-type: none"> □ Key concepts in the selection and use of media in education □ Developing learning resource material using different media □ Instructional aids - types, uses, selection, preparation, utilization. □ Teacher's role in procuring and managing instructional Aids - Project and non-projected aids, multi media, video-tele conferencing etc
IV	10		Measurement and evaluation: <ul style="list-style-type: none"> □ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. □ Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. □ Criterion and norm referenced evaluation,
V	12	10	Standardized and non-standardized tests : <ul style="list-style-type: none"> □ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- <ul style="list-style-type: none"> • Essay, short answer questions and multiple choice questions. • Rating scales, checklist, OSCE/OSPE(Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique □ Question bank-preparation, validation, moderation by panel, utilization □ Developing a system for maintaining confidentiality
VI	8	5	Administration, Scoring and Reporting <ul style="list-style-type: none"> □ Administering a test; scoring, grading versus marks □ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	Standardized Tools <ul style="list-style-type: none"> □ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.

Units	Hours		Course Content
	Theory	Practical	
VIII	5	6	Nursing Educational programs <ul style="list-style-type: none"> □ Perspectives of nursing education: Global and national. □ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner programs.
IX	12	25	Continuing Education in Nursing <ul style="list-style-type: none"> □ Concepts - Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. □ Program planning, implementation and evaluation of continuing education programs. □ Research in continuing education. □ Distance education in nursing.
X	10	10	Curriculum Development <ul style="list-style-type: none"> □ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. □ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. □ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. □ Equivalency of courses: Transcripts, credit system.
XI	8	4	Teacher preparation <ul style="list-style-type: none"> □ Teacher - roles & responsibilities, functions, characteristics, competencies, qualities, □ Preparation of professional teacher □ Organizing professional aspects of teacher preparation programs □ Evaluation: self and peer □ Critical analysis of various programs of teacher education in India.

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Units	Hours		Course Content
	Theory	Practical	
XII	10	5	Guidance and counseling <ul style="list-style-type: none"> □ Concept, principles, need, difference between guidance and counseling, trends and issues. □ Guidance and counseling services : diagnostic and remedial. □ Coordination and organization of services. □ Techniques of counseling : Interview, case work, characteristics of counselor, problems in counseling. □ Professional preparation and training for counseling.
XIII	15	10	Administration of Nursing Curriculum <ul style="list-style-type: none"> □ Role of curriculum coordinator - planning, implementation and evaluation. □ Evaluation of educational programs in nursing-course and program. □ Factors influencing faculty staff relationship and techniques of working together. □ Concept of faculty supervisor (dual) position. □ Curriculum research in nursing. □ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions <ul style="list-style-type: none"> □ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	<ul style="list-style-type: none"> □ Development and maintenance of standards and accreditation in nursing education programs. □ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. □ Role of Professional associations and unions.

Activities :

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.

- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc)
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Project work
- Field visits
- Workshop

Methods of evaluation

- Tests
- Presentation
- Project work
- Written assignments

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

Practical – Internal assessment

Learning resource material	25
Practice Teaching	50
Conduct Workshop /Short Term Course	25

Practical – external assessment

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

ADVANCE NURSING PRACTICE

Placement: 1ST Year

Hours of Instruction

Theory 150 Hours

Practical 200 Hours

Total : 350 Hours

Course Description

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

Objectives:

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

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self development and professional advancement.

Unit	Hours	Content
I	10	Nursing as a Profession <ul style="list-style-type: none"> History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, Role of regulatory bodies Professional organizations and unions-self defense, individual and collective bargaining Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. Role of research, leadership and management. Quality assurance in nursing (INC). Futuristic nursing.
II	5	Health care delivery <ul style="list-style-type: none"> Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. Health care delivery system- national, state, district and local level. Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. Patterns of nursing care delivery in India. Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. Information, education and communication (IEC). Tele-medicine.
III	10	Genetics <ul style="list-style-type: none"> Review of cellular division, mutation and law of inheritance, human genome project ,The Genomic era. Basic concepts of Genes, Chromosomes & DNA. Approaches to common genetic disorders. Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. Genetic counseling. Practical application of genetics in nursing.
IV	10	Epidemiology <ul style="list-style-type: none"> Scope, epidemiological approach and methods, Morbidity, mortality, Concepts of causation of diseases and their screening, Application of epidemiology in health care delivery, Health surveillance and health informatics Role of nurse

Unit	Hours	Content
V	20	Bio-Psycho social pathology <ul style="list-style-type: none"> □ Pathophysiology and Psychodynamics of disease causation □ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style □ Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. □ Treatment aspects: pharmacological and pre- post operative care aspects, □ Cardio pulmonary resuscitation. □ End of life Care □ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. □ Role of nurse- Evidence based nursing practice; Best practices □ Innovations in nursing
VI	20	Philosophy and Theories of Nursing <ul style="list-style-type: none"> □ Values, Conceptual models, approaches. □ Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications, □ Health belief models, communication and management, etc □ Concept of Self health. □ Evidence based practice model.
VIII	10	Nursing process approach <ul style="list-style-type: none"> □ Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. □ Methods of collection, analysis and utilization of data relevant to nursing process. □ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.
IX	30	Psychological aspects and Human relations <ul style="list-style-type: none"> □ Human behavior, Life processes & growth and development, personality development, defense mechanisms, □ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, □ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) □ Sexuality and sexual health. □ Stress and adaptation, crisis and its intervention, □ Coping with loss, death and grieving, □ Principles and techniques of Counseling.

Unit	Hours	Content
X	10	Nursing practice <ul style="list-style-type: none"> □ Framework, scope and trends. □ Alternative modalities of care, alternative systems of health and complimentary therapies. □ Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions. □ Health promotion and primary health care. □ Independent practice issues,- Independent nurse-midwifery practitioner. □ Collaboration issues and models-within and outside nursing. □ Models of Prevention, □ Family nursing, Home nursing, □ Gender sensitive issues and women empowerment. □ Disaster nursing. □ Geriatric considerations in nursing. □ Evidence based nursing practice- Best practices □ Trans-cultural nursing.
XI	25	Computer applications for patient care delivery system and nursing practice <ul style="list-style-type: none"> □ Use of computers in teaching, learning, research and nursing practice. □ Windows, MS office: Word, Excel, Power Point, □ Internet, literature search, □ Statistical packages, □ Hospital management information system: softwares.

Practical

Clinical posting in the following areas:

- Specialty area- in-patient unit - 2 weeks
- Community health center/PHC - 2 weeks
- Emergency/ICU - 2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

Methods of Teaching

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

Methods of evaluation :

- Tests
- Presentation
- Seminar
- Written assignments

Advance nursing Procedures

Definition, Indication and nursing implications;

- CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oxymetry

Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25

	100

CLINICAL SPECIALITY - I

MEDICAL SURGICAL NURSING

Placement: 1st Year

Hours of instruction
Theory: 150 Hours
Practical: 650 Hours
Total : 800 Hours

Course Description

This course is common for the students undergoing clinical speciality-II in neuro science nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephro & urology nursing, gastroenterology nursing/ geriatric nursing.

It is designed to assist students in developing expertise and in depth knowledge in the field of medical Surgical Nursing. It will help students to appreciate the patient as a holistic individual and develop skill to function as a specialized Medical-Surgical Nurse. It will further enable the student to function as educator, manager and researcher in the field of Medical - Surgical Nursing.

Objectives

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

1. Appreciate the trends & issues in the field of Medical - Surgical Nursing as a speciality.
2. Apply concepts & theories related to health promotion.
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical - Surgical patients.
5. Apply Nursing process in providing care to patients.
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies with Medical- Surgical patients.
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues relevant to Medical - Surgical Nursing.
10. Prepare a design for layout and management of Medical - Surgical Units.

- (62)
11. Appreciate the role of alternative systems of Medicine in care of patients.
 12. Incorporate evidence based Nursing practice and identify the areas of research in the field of Medical – Surgical Nursing.
 13. Recognize the role of Nurse practitioner as a member of the Medical – Surgical health team.
 14. Teach Medical – Surgical Nursing to undergraduate nursing students & in-service nurses.

COURSE CONTENT:

Unit	Hours	Content
I	5	Introduction: <ul style="list-style-type: none"> □ Historical development of Medical- Surgical Nursing in India. □ Current status of health and disease burden in India. □ Current concept of health. □ Trends & issues in Medical – Surgical Nursing. □ Ethical & cultural issues in Medical – Surgical Nursing. □ Rights of patients. □ National health policy, special laws & ordinances relating to older people. □ National goals. □ Five year plans. □ National health programs related to adult health.
II	20	Health Assessment of patients <ul style="list-style-type: none"> □ History taking. □ Physical examination of various systems. □ Nutritional assessment. □ Related investigations and diagnostic assessment.
III	5	Care in hospital settings: <ul style="list-style-type: none"> □ Ambulatory care. □ Acute and Critical care. □ Long term care. □ Home Health Care. □ Characteristics, care models, practice settings, interdisciplinary team. □ Hospitalization- effects of hospitalization on the patient & family. □ Stressors & reactions related to disease process. □ Nursing care using Nursing process approach.
IV	10	Management of patients with disorders of Gastro intestinal tract <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment- History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.

Unit	Hours	Content
V	10	Management of patients with disorders of nervous system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VI	10	Management of patients with disorders of respiratory system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VII	10	Management of patients with disorders of cardio vascular system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
VIII	5	Management of patients with disorders of blood <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies □ Evidence based nursing practice □ Rehabilitation and follow-up
IX	10	Management of patients with disorders of genito urinary system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
X	10	Management of patients with disorders of endocrine system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XI	10	Management of patients with disorders of musculo-skeletal system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XII	8	Management of patients with disorders of integumentary system <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends. □ Nursing management. □ Related research studies. □ Evidence based nursing practice. □ Rehabilitation and follow-up.
XIII	5	Management of patients with disorders of Eye and ENT <ul style="list-style-type: none"> □ Review of anatomy and physiology. □ Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis. □ Health assessment-History taking, physical examination, investigation and diagnostic assessment. □ Treatment modalities and trends.

Practical

Total = 660 Hours

1 Week = 30 Hours

S.No.	Dept/Unit	No. of Week	Total Hours
	General Medical Ward	4	120 Hours
	General Surgical Ward	4	120 Hours
	ICUs	4	120 Hours
	Oncology	2	60 Hours
	Ortho	2	60 Hours
	Cardio	2	60 Hours
	Emergency Department	2	60 Hours
	Neuro	2	60 Hours
	Total	22 Weeks	660 Hours

Student Activities:

- Clinical presentations
- History taking
- Health Assessment
- Nutritional Assessment
- Health Education related to disease conditions
- Case studies
- Project work
- Field visits

CLINICAL SPECIALITY-I

OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement : 1st year

Hours of Instruction
Theory : 150 Hours.
Practical : 650 Hours.
Total : 800 Hours.

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstetric and Gynaecological nursing

Objectives

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

1. Appreciate the trends in the field of midwifery, obstetrics and gynaecology as a speciality.
2. Describe the population dynamics and indicators of maternal and child health
3. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.
4. Provide comprehensive nursing care to women during reproductive period and newborns.
5. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynaecological nursing.
6. Identify and analyze the deviations from normal birth process and refer appropriately.
7. Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse
8. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation
9. Describe the role of various types of complementary and alternative therapies in obstetric and gynaecological nursing.
10. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynaecological nursing.
11. Describe the recent advancement in contraceptive technology and birth control measures
12. Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing

Course Content

Units	Hours	Content
I	10	Introduction <ul style="list-style-type: none"> Historical and contemporary perspectives Epidemiological aspects of maternal and child health Magnitude of maternal and child health problems Issues of maternal and child health : Age, Gender, Sexuality, psycho Socio cultural factors Preventive obstetrics National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGO's Theories, models and approaches applied to midwifery practice Role and scope of midwifery practice: Independent Nurse midwifery practitioner Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders Evidence based midwifery practice Research priorities in obstetric and gynaecological nursing.
II	15	Human reproduction <ul style="list-style-type: none"> Review of anatomy and physiology of human reproductive system: male and female Hormonal cycles Embryology Genetics, teratology and counseling Clinical implications
III	25	Pregnancy <ul style="list-style-type: none"> Maternal adaptation : Physiological, psychosocial <ul style="list-style-type: none"> Assessment - Maternal and foetal measures Maternal measures:History taking , examination-General,physical and obstetrical measure, identification of high risk, Foetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (AChE), Triple Test Aminocentesis, Cordocentesis, chorionic villus sampling (CVS)), Biophysical- (US IMAGING, Foetal movement count, Ultra Sonography, Cardiotocography, cardiotomography, Non Stress Test(NST), Contraction stress test(CST), amnioscopy, foetoscopy, Radiological examination, Interpretation of diagnostic tests and nursing implications Nursing management of the pregnant women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery , choice of birth setting, importance and mobilizing of transportation, prenatal counseling, role of nurse and crisis intervention, identification of high risk pregnancy and refer Alternative /complementary therapies

Units	Hours	Content
IV	25	<p>Normal Labour and nursing management:</p> <ul style="list-style-type: none"> □ Essential factors of labour □ Stages and onset <p>First stage: Physiology of normal labour</p> <ul style="list-style-type: none"> • Use of partograph: Principles, use and critical analysis, evidence based studies • Analgesia and anaesthesia in labour • Nursing management <p>Second stage</p> <ul style="list-style-type: none"> • Physiology, intrapartum monitoring • Nursing management. • Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) <p>Third stage</p> <ul style="list-style-type: none"> • Physiology and nursing management <p>Fourth stage – Observation, critical analysis and Nursing management.</p> <ul style="list-style-type: none"> • Various child birth practice: water birth, position change etc • Evidence based practice in relation to labour intervention <p>Role of nurse midwifery practitioner</p> <ul style="list-style-type: none"> • Alternative/complementary therapies
V	20	<p>Normal puerperium and nursing management</p> <ul style="list-style-type: none"> □ Physiology of puerperium □ Physiology of lactation, lactation management, exclusive breast feeding, Baby friendly hospital initiative (BFHI) □ Assessment of postnatal women . □ Minor discomforts and complications of puerperium □ Management of mothers during puerperium: Postnatal exercises Rooming in, bonding, warm chain □ Evidence based studies <p>Role of nurse midwifery practitioner</p> <ul style="list-style-type: none"> • Alternative/complementary therapies
VI	20	<p>Normal Newborn</p> <ul style="list-style-type: none"> □ Physiology and characteristics of normal newborn □ Physical and Behavioural assessment of newborn □ Needs of newborn □ Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newborn nutrition □ Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU □ Observation and care of newborn □ Parenting process

Units	Hours	Content
VII	10	Pharmacodynamics in obstetrics <ul style="list-style-type: none"> Drugs used in pregnancy, labour, post partum and newborn Calculation of drug dose and administration Effects of drugs used Anaesthesia and analgesia in obstetrics Roles and responsibilities of midwifery nurse practitioner Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW
VIII	10	Family welfare services <ul style="list-style-type: none"> Population dynamics Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems Recent advancement in contraceptive technology Role of nurses in family welfare programmes in all settings Role of independent nurse midwifery practitioner Family life education Evidence based studies Information, Education and Communication (IEC) Management information and evaluation system (MIES) Teaching and supervision of health team members
IX	5	Infertility <ul style="list-style-type: none"> Primary and secondary causes Diagnostic procedures Counseling: ethical and legal aspects of assisted reproductive technology (ART) Recent advancement in infertility management. Adoption procedures <p>Role of nurses in infertility management.</p>
X	5	Menopause <ul style="list-style-type: none"> Physiological, psychological and social aspects Hormone Replacement Therapy Surgical menopause Counseling and guidance <p>Role of midwifery nurse practitioner</p>
XI	5	Abortion <ul style="list-style-type: none"> Types, causes Legislations, Clinical rights and professional responsibility Abortion procedures Complications Nursing management <p>Role of midwifery nurse practitioner</p>

Practical

Total = 660 Hours

1 week = 30 Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Anetenatal Wards & OPDs	4	120
2	Labour Room	5	150
3	Postnatal Ward	2	60
4	Family Planning Clinics	2	60
5	PHC/Rural maternity settings	4	120
6	Gynae	2	60
7	Maternity OT	2	60
8	NICU	1	30
	Total	22 Weeks	660Hours

Procedures observed

- Diagnostic investigations : amniotcentecis, chordocentecis, chorionic villi sampling
- Infertility management: artificial reproduction : artificial insemination, invitro fertilization, and related procedures

Procedures assisted

- Medical termination of pregnancy,

Procedures performed

- Antenatal assessment-20
- Postnatal assessment-20
- Assessment during labour : use of partograph - 20
- Per vaginal examination-20
- Conduct of normal delivery-20
- Episiotomy and suturing-10
- Setting up of delivery areas
- Insertion of intra uterine devices(copper T)

Others

- Identification of high risk women and referral
- Health education: to women and their families
- Motivation of couples for planned parenthood

CLINICAL SPECIALTY -I

CHILD HEALTH (PAEDIATRIC) NURSING

Placement : 1st Year

Hours of Instruction
Theory 150 Hours
Practical 650 Hours
Total : 800 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing

Objectives

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

1. Appreciate the history and developments in the field of pediatrics and pediatric nursing as a specialty
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Appreciate the child as a holistic individual
4. Perform physical, developmental, and nutritional assessment of pediatric clients
5. Apply nursing process in providing nursing care to neonates & children
6. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
7. Recognize and manage emergencies in neonates
8. Describe various recent technologies and treatment modalities in the management of high risk neonates
9. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
10. Prepare a design for layout and management of neonatal units
11. Incorporate evidence based nursing practice and identify the areas of research in the field of pediatric/neonatal nursing
12. Recognize the role of pediatric nurse practitioner and as a member of the pediatric and neonatal health team
13. Teach pediatric nursing to undergraduate students & in-service nurses

Course Content

14/5

Unit	Hours	Content
I	10	Introduction <ul style="list-style-type: none"> Historical development of Pediatrics and Pediatric Nursing in India; Current status of child health in India; Trends in Pediatrics and Pediatric Nursing, Ethical and cultural issues in pediatric care Rights of children National health policy for children, special laws and ordinances relating to children. National goals, Five year plans, National health programs related to child health.
II	10 Hrs	Assessment of pediatric clients <ul style="list-style-type: none"> History taking Developmental assessment Physical assessment Nutritional assessment Family assessment
III	10	Hospitalized child <ul style="list-style-type: none"> Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family Stressors and reactions related to developmental stages, play activities for ill hospitalized child. Nursing care of hospitalized child and family -principles and practices
IV	15	Pre-natal Pediatrics <ul style="list-style-type: none"> Embryological and fetal development, Prenatal factors influencing growth and development of fetus, Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling, Importance of prenatal care and role of pediatric nurse.
V	15	Growth and Development of children <ul style="list-style-type: none"> Principles of growth and development, Concepts and theories of growth and development, Developmental tasks and special needs from infancy to adolescence, developmental milestones, Assessment of growth and development of pediatric clients, Factors affecting growth and development.
VI	15	Behavioral Pediatrics and Pediatric Nursing <ul style="list-style-type: none"> Parent child relationship, Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure

Unit	Hours	Content
		<p>to thrive, child abuse, the battered child,</p> <ul style="list-style-type: none"> □ Common behavioral problems and their management, □ Child guidance clinic.
VII	15	<p>Preventive Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> □ Concept, aims and scope of preventive pediatrics, □ Maternal health and its influence on child health antenatal aspects of preventive pediatrics, □ Immunization, expanded program on immunization/ universal immunization program and cold chain, □ Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding, □ Health education, nutritional education for children □ Nutritional programs □ National and international organizations related to child health, <p>Role of pediatric nurse in the hospital and community.</p>
VIII	30	<p>Neonatal Nursing</p> <ul style="list-style-type: none"> □ New born baby- profile and characteristics of the new born, □ Assessment of the new born, □ Nursing care of the new born at birth, care of the new born and family, □ High risk newborn- pre term and term neonate and growth retarded babies, □ Identification and classification of neonates with infections, HIV & AIDS, Ophthalmia neonatorum, congenital syphilis. □ High risk new born- Identification, classification and nursing management □ Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.
IX	30	<p>IMNCI (Integrated management of neonatal and childhood illnesses)</p>

Practical

WED THU
27 5
Total = 660Hours
1 Week = 30Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Pediatric Medicine Ward	4	120 Hours
2	Pediatric Surgery Ward	4	120 Hours
3	Labor Room/Maternity Ward	2	60 Hours
4	Pediatric OPD	2	60 Hours
5	NICU	4	120 Hours
6	Creche	1	30 Hours
7	Child Guidance Clinic	1	30 Hours
8	Community	4	120 Hours
	Total	22 Weeks	660 Hours

Student Activities

- Clinical presentations
- Growth & developmental assessment
- Assessment & prescription of nursing interventions for sick children
- Health education related to disease conditions
- Nutritional assessment
- Project work
- Field visits

MENTAL HEALTH (PSYCHIATRIC) NURSING

Placement : 1st Year

Hours of Instruction

Theory 150 hours

Practical 650 hours

Total : 800 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function psychiatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing

Objectives

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

1. Appreciate the trends and issues in the field of psychiatry and psychiatric nursing.
2. Explain the dynamics of personality development and human behaviour.
3. Describe the concepts of psychobiology in mental disorders and its implications for psychiatric nursing
4. Demonstrate therapeutic communications skills in all interactions
5. Demonstrate the role of psychiatric nurse practitioner in various therapeutic modalities
6. Establish and maintain therapeutic relationship with individual and groups
7. Uses assertive techniques in personal and professional actions
8. Promotes self-esteem of clients, others and self
9. Apply the nursing process approach in caring for patients with mental disorders
10. Describe the psychopharmacological agents, their effects and nurses role
11. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and mental health team
12. Describe various types of alternative system of medicines used in psychiatric settings
13. Incorporate evidence based nursing practice and identify the areas of research in the field of psychiatric nursing

Units	Hours	Content
I	15	Introduction <ul style="list-style-type: none"> □ Mental Health and Mental Illness □ Historical perspectives □ Trends, issues and magnitude □ Contemporary practices □ Mental health laws/Acts □ National mental health program -National mental health authority, state mental health authority □ Human rights of mentally ill □ Mental Health/ Mental Illness Continuum □ Classification of mental illnesses-ICD, DSM □ Standards of Psychiatric nursing □ Challenges and Scope of psychiatric nursing □ Multi-disciplinary team and role of nurse <p>Role of psychiatric nurse- extended and expanded</p>
II	10	Concepts of Psychobiology <ul style="list-style-type: none"> □ The Nervous System: <ul style="list-style-type: none"> • An Anatomical Review • The Brain and limbic system • Nerve Tissue • Autonomic Nervous system • Neurotransmitters □ Neuroendocrinology <ul style="list-style-type: none"> • Pituitary, Thyroid Gland • Circadian Rhythms □ Genetics □ Neuro psychiatric disorders □ Psychoimmunology <ul style="list-style-type: none"> • Normal Immune response • Implications for psychiatric Illness □ Implications for Nursing
III	10	Theories of Personality Development and relevance to nursing practice <ul style="list-style-type: none"> □ Psychoanalytic Theory- Freud's □ Interpersonal Theory-Sullivan's □ Theory of Psychosocial Development-Erikson's □ Theory of object relations □ Cognitive Development Theory □ Theory of Moral Development □ A Nursing Model-Hildegard E.Peplau
IV	5	Stress and its management <ul style="list-style-type: none"> □ An introduction to the concepts of stress □ Psychological Adaptation to stress □ Stress as a Biological Response. □ Stress as an Environmental Event.

Units	Hours	Content
		<ul style="list-style-type: none"> = Stress as Transaction between the individual and the Environment. = Stress management.
V	10	Therapeutic communication and interpersonal relationship <ul style="list-style-type: none"> = Review communication process, factors affecting communication = Communication with individuals and in groups = Techniques of therapeutic communication-touch therapy = Barrier of communication with specific reference to psychopathology = Therapeutic attitudes = Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self Gaining self-awareness = Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship = Therapeutic impasse and its management
VI	10	Assertive Training <ul style="list-style-type: none"> = Assertive Communication = Basic Human Rights = Response Patterns <ul style="list-style-type: none"> • (Nonassertive Behavior • Assertive Behavior • Aggressive Behavior • Passive-Aggressive Behavior) = Behavioral Components of Assertive Behavior = Techniques that Promote Assertive Behavior = Thought-Stopping Techniques Method <p>Role of The Nurse</p>
VII	10	Promoting Self-Esteem <ul style="list-style-type: none"> = Components of Self-Concept = The Development of Self-Esteem = The Manifestations of Low-Self-Esteem = Boundaries <p>Role of The Nurse</p>
	5	Women and Mental Health <ul style="list-style-type: none"> 1 Normal reaction to conception, pregnancy and puerperium 1 Problems related to conception, pregnancy and puerperium and its management. • Counseling - Premarital, marital and genetic

Units	Hours	Content
VIII	10	The nursing process in psychiatric/mental health nursing <ul style="list-style-type: none"> □ Mental health assessment- History taking, mental status examination □ Physical and neurological examination □ Psychometric assessment □ Investigations, Diagnosis and Differential diagnosis □ Interpretation of investigations □ Nurse's role □ Nursing case management <ul style="list-style-type: none"> - Critical pathways of care □ Documentation <ul style="list-style-type: none"> □ Problem-oriented recording □ Focus charting □ The PIE method
IX	35	Psycho social and physical therapies <ul style="list-style-type: none"> □ Individual therapy □ Behavioural Therapy- Relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy □ Group Therapy □ Family Therapy □ Milieu Therapy □ The Therapeutic Community □ Occupational therapy □ Recreational therapy □ Play therapy □ Music therapy □ Light therapy □ Color therapy □ Aroma therapy
XI	5	Electroconvulsive Therapy <ul style="list-style-type: none"> □ Historical Perspectives □ Indications □ Contraindications □ Mechanisms of Action □ Side Effects □ Risks Associated with Electroconvulsive Therapy □ The Role of The Nurse in Electroconvulsive Therapy
X	10	Psychopharmacology <ul style="list-style-type: none"> □ Historical Perspectives □ Role of a Nurse in Psychopharmacological Therapy <ul style="list-style-type: none"> • Antianxiety Agents • Antidepressants Agents • Mood stabilizers • Antipsychotics • Sedative-Hypnotics • Central Nervous System Stimulants □ Future developments

Units	Hours	Content
XII	15	Alternative systems of medicine in mental health <ul style="list-style-type: none"> □ Types of Therapies <ul style="list-style-type: none"> • Herbal Medicine • Unani • Siddha • Homeopathic • Acupressure and Acupuncture • Diet and Nutrition • Chiropractic Medicine • Therapeutic Touch and Massage • Yoga • Pet Therapy

Practical

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Total = 660 Hours
1 Week = 30 Hours

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120 Hours
2	Chronic Psychiatric ward	4	120 Hours
3	Psychiatric Emergency Unit	2	60 Hours
4	O.P.D	2	60 Hours
5	Family Psychiatric Unit	2	60 Hours
6	Community Mental Health Unit	4	120 Hours
7	Rehabilitation / Occupational Therapy Unit/Half way home/ Day care centre	4	120 Hours
	Total	22 Weeks	660 Hours

Student Activities

- History taking
- Mental health assessment
- Psychometric assessment
- Personality assessment
- Process recording
- Therapies- Group Therapy
- Family Therapy
- Psychotherapy
- Milieu Therapy
- The Therapeutic Community
- Occupational therapy
- Recreational therapy
- Play therapy
- music therapy
- Pet therapy
- Counselling
- Assisted ECT
- Assisted EEG
- Case studies
- Case presentation
- Project work
- Socio and psycho drama
- Field visits

CLINICAL SPECIALITY- I

COMMUNITY HEALTH NURSING

Placement : 1st Year

Hours of Instructions
Theory 150 hours
Practical 650 hours
Total 800 hours

Course Description

The course is designed to assist students in developing expertise and in-depth understanding in the field of Community Health Nursing. It would help students to appreciate holistic life style of individuals, families & groups and develop skills to function as Community Health Nurse specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health nursing.

Objectives

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

1. Appreciate the history and development in the field of Community Health and Community Health Nursing.
2. Appreciate role of individuals and families in promoting health of the Community.
3. Perform physical, developmental and nutritional assessment of individuals, families and groups.
4. Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people.
5. Apply nursing process approach while providing care to individuals, families, groups and community.
6. Integrate the concepts of family centered nursing approach while providing care to the community.
7. Recognize and participate in the management of emergencies, epidemics and disasters.
8. Apply recent technologies and care modalities while delivering community health nursing care.
9. Appreciate legal and ethical issues pertaining to community health nursing care.
10. Conduct community health nursing care projects.
11. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
12. Incorporate evidence based nursing practice and identify the areas of research in the community settings.

13. Participate effectively as a member of Community Health team.
14. Coordinate and collaborate with various agencies operating in the community by using inter-sectoral approach.
15. Teach community health nursing to undergraduates, in-service nurses and the community health workers.
16. Demonstrate leadership and managerial abilities in community health nursing practice

Course Content

Unit	Hours	Content
I	10	Introduction <ul style="list-style-type: none"> □ Historical development of Community Health and Community health Nursing- World and India, various health and family welfare committees □ Current status, trends and challenges of Community Health Nursing □ Health status of the Community-community diagnosis □ Scope of Community health Nursing practice □ Ethical and legal issues □ Socio-cultural issues in Community health Nursing □ National Policies, plans and programmes <ul style="list-style-type: none"> • National health policy • National Population policy • National Health and welfare Programmes • National Health goals/ indicators/ Millennium developmental goals(MDG)/ Strategies • Planning process: Five year plans • National Rural Health Mission • Panchayat raj institutions
II	10	Health <ul style="list-style-type: none"> □ Concepts, issues □ Determinants □ Measurements □ Alternate systems for health promotion and management of health problems □ Health economics □ Health technology □ Genetics and health □ Waste disposal □ Eco system
III	15	Population dynamics and control <ul style="list-style-type: none"> □ Demography □ Transition and theories of population □ National population policy □ National population programmes □ Population control and related programmes □ Methods of family limiting and spacing □ Research, Census, National Family Health Survey

Unit	Hours	Content
IV	30	Community health Nursing <ul style="list-style-type: none"> □ Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions □ Community health Nursing theories and models □ Quality assurance: Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits □ Family nursing and Family centered nursing approach □ Family health nursing process <ul style="list-style-type: none"> Family health assessment _____ Diagnosis _____ Planning _____ Intervention _____ Evaluation _____ □ Nursing care for special groups: children, adolescents, adults, women, elderly, physically and mentally challenged- Urban and rural population at large □ Community nutrition □ Concept, role and responsibilities of community health Nurse practitioners/nurse midwifery practitioners-decision making skills, professionalism, legal issues
V	45	Maternal and neonatal care <ul style="list-style-type: none"> □ IMNCI(Integrated Management of Neonatal And Childhood Illnesses) module □ Skilled Birth Attendant (SBA) module
VI	15	<ul style="list-style-type: none"> □ Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)
VII	10	Information, education and communication <ul style="list-style-type: none"> □ IEC/BCC: Principles and strategies □ Communication Skills □ Management information and evaluation system: Records and reports □ Information technology □ Tele-medicine and tele-nursing □ Journalism □ Mass media □ Folk media
VIII	15	Health care delivery system: Urban, rural, tribal and difficult areas <ul style="list-style-type: none"> □ Health organization: National, State, District, CHC, PHC, Sub Centre, Village - Functions, Staffing, pattern of assistance, layout, drugs, equipments and supplies, Roles and Responsibilities of DPHNO □ Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives □ Alternative systems of medicine □ Training and supervision of health workers

Unit	Hours	Content
		<div data-bbox="454 168 1197 331"> <ul style="list-style-type: none"> □ Health agencies: NGO's, Roles and functions □ Inter-sectoral coordination □ Public private partnership □ Challenges of health care delivery system </div>

Practical

Total = 660 Hours
1 Week = 30 Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Sub-centre, PHC, CHC	12	360 Hours
2	District family welfare bureau	1	30 Hours
3	Urban centers	6	180 Hours
4	Field visits	3	90 Hours
	Total	22 Weeks	660 Hours

Student Activities

- Identification of community leaders and resource persons (community mapping)
- Community health survey
- Community health nursing process- individual, family and special groups and community
- Counseling
- Health education – campaign, exhibition, folk media, preparation of IEC materials
- Organising and participating in special clinics/camps and national health and welfare programmes-Organise atleast one health and family welfare mela/fair (all stalls of national health and family welfare activities should be included)
- Estimation of Vital health statistics -Exercise
- Drill for disaster preparedness
- Organise atleast one in-service education to ANM's/LHV/PHN/HW
- Nutrition – Exercise on nutritional assessment on dietary planning, demonstration and education for various age groups
- Filling up of Records, reports and registers maintained at SC/PHC/CHC
- Assist women in self breast examination
- Conduct antenatal examination
- Conduct vaginal examination
- Conduct deliveries
- Post natal visits
- Perform Episiotomy and suturing
- Prepare Pap smear
- Conduct Insertion/Removal of IUD
- Blood Slide preparation
- Field visits
- Maintenance of log book for various activities

NURSING RESEARCH AND STATISTICS

Placement: 1st Year

Hours of Instruction
Theory 150 Hours
Practical 100 Hours
Total : 250 Hours

Part A : Nursing Research

Theory 100 Hours
Practical 50 Hours
Total : 150 Hours

Course Description:

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management.

General Objectives:

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

Content Outline

Unit	Hours		Course Content
	Theory	Practical	
I	10		Introduction: <ul style="list-style-type: none"> □ Methods of acquiring knowledge – problem solving and scientific method. □ Research – Definition, characteristics, purposes, kinds of research □ Historical Evolution of research in nursing □ Basic research terms □ Scope of nursing research: areas, problems in nursing, health and social research □ Concept of evidence based practice □ Ethics in research □ Overview of Research process
II	5	5	Review of Literature <ul style="list-style-type: none"> □ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs <ul style="list-style-type: none"> □ Type: Quantitative and Qualitative □ Historical, survey and experimental –Characteristics, types advantages and disadvantages □ Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem: <ul style="list-style-type: none"> □ Identification of research problem □ Formulation of problem statement and research objectives □ Definition of terms □ Assumptions and delimitations □ Identification of variables □ Hypothesis – definition, formulation and types.
V	5	5	Developing theoretical/conceptual framework. <ul style="list-style-type: none"> □ Theories: Nature, characteristics, Purpose and uses □ Using, testing and developing conceptual framework, models and theories.
VI	6		Sampling <ul style="list-style-type: none"> □ Population and sample □ Factors influencing sampling □ Sampling techniques □ Sample size □ Probability and sampling error □ Problems of sampling

Unit	Hours		Course Content
	Theory	Practical	
VII	20	10	Tools and methods of Data collection: <ul style="list-style-type: none"> □ Concepts of data collection □ Data sources, methods/techniques quantitative and qualitative. □ Tools for data collection – types, characteristics and their development □ Validity and reliability of tools □ Procedure for data collection
VIII	5		Implementing research plan <ul style="list-style-type: none"> □ Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data <ul style="list-style-type: none"> □ Plan for data analysis: quantitative and qualitative □ Preparing data for computer analysis and presentation. □ Statistical analysis □ Interpretation of data □ Conclusion and generalizations □ Summary and discussion
X	10		Reporting and utilizing research findings: <ul style="list-style-type: none"> □ Communication of research results; oral and written □ Writing research report purposes, methods and style-vancouver, American Psychological Association(APA), Campbell etc □ Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal

Activities:

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper.

Method of Teaching

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

Methods of Evaluation

- Quiz, Tests (Term)
- Assignments/Term paper
- Presentations
- Project work

Internal Assessment

Techniques	Weightage (15marks)
Term Test(2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

Part -B : Statistics

Hours of Instruction
Theory 50 Hours
Practical 50 Hours
Total : 100 Hours

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

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

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: <ul style="list-style-type: none">□ Concepts, types, significance and scope of statistics, meaning of data,□ sample, parameter□ type and levels of data and their measurement□ Organization and presentation of data – Tabulation of data;□ Frequency distribution□ Graphical and tabular presentations.
II	4	4	Measures of central tendency: <ul style="list-style-type: none">□ Mean, Median, Mode
III	4	5	Measures of variability; <ul style="list-style-type: none">□ Range, Percentiles, average deviation, quartile deviation, standard deviation
IV	3	2	Normal Distribution: <ul style="list-style-type: none">□ Probability, characteristics and application of normal probability curve; sampling error.

Part -B : Statistics

Hours of Instruction
Theory 50 Hours
Practical 50 Hours
Total : 100 Hours

Course Description

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

General Objectives

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

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health related research.
7. Use statistical packages for data analysis

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	Introduction: <ul style="list-style-type: none">□ Concepts, types, significance and scope of statistics, meaning of data,□ sample, parameter□ type and levels of data and their measurement□ Organization and presentation of data – Tabulation of data;□ Frequency distribution□ Graphical and tabular presentations.
II	4	4	Measures of central tendency: <ul style="list-style-type: none">□ Mean, Median, Mode
III	4	5	Measures of variability; <ul style="list-style-type: none">□ Range, Percentiles, average deviation, quartile deviation, standard deviation
IV	3	2	Normal Distribution: <ul style="list-style-type: none">□ Probability, characteristics and application of normal probability curve; sampling error.

Unit	Hours		Course Content
	Theory	Practical	
V	6	8	Measures of relationship: <ul style="list-style-type: none"> Correlation – need and meaning Rank order correlation; Scatter diagram method Product moment correlation Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: <ul style="list-style-type: none"> Experimental designs Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) <ul style="list-style-type: none"> Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: <ul style="list-style-type: none"> Scaling – Z Score, Z Scaling Standard Score and T Score Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: <ul style="list-style-type: none"> Ratios, Rates, Trends Vital health statistics – Birth and death rates. Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis <ul style="list-style-type: none"> Use of statistical package.

Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics(chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,

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- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

Methods of Evaluation

- Test, Classroom statistical exercises.

Internal Assessment

Techniques

Test - (2 tests)

Weightage 10 marks

100%

NURSING MANAGEMENT

Placement : II Year

Hours of Instruction
Theory 150 Hours
Practical 150 Hours
Total : 300 Hours

Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multi-sectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyse legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels

Course Content

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Unit	Hours	Content
I	10	Introduction <ul style="list-style-type: none"> □ Philosophy, purpose, elements, principles and scope of administration □ Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local □ Organisation and functions of nursing services and education at National, State, District and institutions: Hospital and Community □ Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,
II	10	Management <ul style="list-style-type: none"> □ Functions of administration □ Planning and control □ Co-ordination and delegation □ Decision making – decentralization basic goals of decentralization. □ Concept of management Nursing management <ul style="list-style-type: none"> □ Concept, types, principles and techniques □ Vision and Mission Statements □ Philosophy, aims and objective □ Current trends and issues in Nursing Administration □ Theories and models <p>Application to nursing service and education</p>
III	15	Planning <ul style="list-style-type: none"> □ Planning process: Concept, Principles, Institutional policies □ Mission, philosophy, objectives, □ Strategic planning □ Operational plans □ Management plans □ Programme evaluation and review technique(PERT), Gantt chart, Management by objectives(MBO) □ Planning new venture □ Planning for change □ Innovations in nursing <p>Application to nursing service and education</p>
IV	15	Organisation <ul style="list-style-type: none"> □ Concept, principles, objectives, Types and theories, Minimum requirements for organisation, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, □ Organising nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, □ Planning and Organising: hospital, unit and ancillary services(specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc)

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Disaster management: plan, resources, drill, etc <p>Application to nursing service and education</p>
V	15	Human Resource for health <ul style="list-style-type: none"> □ Staffing <ul style="list-style-type: none"> • Philosophy • Norms: Staff inspection unit(SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies □ Recruitment: credentialing, selection, placement, promotion □ Retention □ Personnel policies □ Termination □ Staff development programme □ Duties and responsibilities of various category of nursing personnel <p>Applications to nursing service and education</p>
VI	15	Directing <ul style="list-style-type: none"> □ Roles and functions □ Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories □ Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations □ Delegation; common delegation errors □ Managing conflict: process, management, negotiation, consensus □ Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager □ Occupational health and safety <p>Application to nursing service and education</p>
VII	10	Material management <ul style="list-style-type: none"> □ Concepts, principles and procedures □ Planning and procurement procedures : Specifications □ ABC analysis, □ VED (very important and essential daily use) analysis □ Planning equipments and supplies for nursing care: unit and hospital □ Inventory control □ Condemnation <p>Application to nursing service and education</p>
VIII	15	Controlling <ul style="list-style-type: none"> □ Quality assurance - Continuous Quality Improvement <ul style="list-style-type: none"> • Standards • Models • Nursing audit

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Performance appraisal: Tools, confidential reports, formats, Management, interviews □ Supervision and management: concepts and principles □ Discipline: service rules, self discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings-enquiry etc □ Self evaluation or peer evaluation, patient satisfaction, utilization review <p>Application to nursing service and education</p>
IX	15	<p>Fiscal planning</p> <ul style="list-style-type: none"> □ Steps □ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue □ Budget estimate, revised estimate, performance budget □ Audit □ Cost effectiveness □ Cost accounting □ Critical pathways □ Health care reforms □ Health economics □ Health insurance □ Budgeting for various units and levels <p>Application to nursing service and education</p>
X	10	<p>Nursing informatics</p> <ul style="list-style-type: none"> □ Trends □ General purpose □ Use of computers in hospital and community □ Patient record system □ Nursing records and reports □ Management information and evaluation system (MIES) □ E- nursing, Telemedicine, telenursing □ Electronic medical records
XI	10	<p>Leadership</p> <ul style="list-style-type: none"> □ Concepts, Types, Theories □ Styles □ Manager behaviour □ Leader behaviour □ Effective leader: Characteristics, skills □ Group dynamics □ Power and politics □ lobbying □ Critical thinking and decision making □ Stress management <p>Applications to nursing service and education</p>

CLINICAL SPECIALITY - II

MEDICAL SURGICAL NURSING

SUB SPECIALITY - CARDIO VASCULAR AND THORACIC NURSING

Placement : II year

Hours of Instruction
Theory : 150 hours.
Practical : 950 hours.
Total : 1100 hours.

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.

Objectives

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

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life Support.
8. Describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility
9. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
10. Appreciate team work & coordinate activities related to patient care.
11. Practice infection control measures.
12. Identify emergencies and complications & take appropriate measures

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13. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
 14. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
 15. Appreciate the role of alternative system of medicine in care of patient
 16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
 17. Identify the sources of stress and manage burnout syndrome among health care providers.
 18. Teach and supervise nurses and allied health workers.
 19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

Content Outline

Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> □ Historical development, trends and issues in the field of cardiology. □ Cardio vascular and thoracic conditions – major health problem. □ Concepts, principles and nursing perspectives □ Ethical and legal issues □ Evidence based nursing and its application in cardio vascular and thoracic nursing(to be incorporated in all the units)
II	5	Epidemiology <ul style="list-style-type: none"> □ Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc □ Health promotion, disease prevention, Life style modification □ National health programs related to cardio vascular and thoracic conditions □ Alternate system of medicine □ Complementary therapies
III	5	Review of anatomy and physiology of cardio vascular and respiratory system <ul style="list-style-type: none"> □ Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. □ Coronary circulation □ Hemodynamics and electro physiology of heart. □ Bio-chemistry of blood in relation to cardio pulmonary function.
IV	20	Assessment and Diagnostic Measures: <ul style="list-style-type: none"> □ History taking □ Physical assessment <ul style="list-style-type: none"> • Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV □ Diagnostic tests <ul style="list-style-type: none"> • Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices,

Unit	Hours	Content
		<p>output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand</p> <ul style="list-style-type: none"> • Radiologic examination of the chest: interpretation, chest film findings • Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination <ul style="list-style-type: none"> - ECG changes in: intraventricular conduction abnormalities- Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, • Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques • Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging. • Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care • Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data • Pulmonary function test: Bronchoscopy and graphies • Interpretation of diagnostic measures • Nurse's role in diagnostic tests <p>□ Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs.</p> <p>□ Interpretation and role of nurse</p>
V	25	<p>Cardiac disorders and nursing management:</p> <p>□ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Myocardial Infarction, Congestive cardiac failure • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block <p>Associated illnesses</p>

Unit	Hours	Content
VI	10	Altered pulmonary conditions <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of <ul style="list-style-type: none"> • Bronchitis • Bronchial asthma • Bronchiectasis • Pneumonias • Lung abscess, lung tumour • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease (conditions leading to) • Cor pulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension
VII	10	Vascular disorders and nursing management <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of <ul style="list-style-type: none"> • Disorders of arteries • Disorders of the aorta • Aortic Aneurysms, • Aortic dissection • Raynaud's phenomenon • Peripheral arterial disease of the lower extremities • Venous thrombosis • Varicose veins • Chronic venous insufficiency and venous leg ulcers • Pulmonary embolism
VIII	10	Cardio thoracic emergency interventions <ul style="list-style-type: none"> □ CPR- BLS and ALS □ Use of ventilator, defibrillator , pacemaker □ Post resuscitation care. □ Care of the critically ill patients □ Psychosocial and spiritual aspects of care □ Stress management; ICU psychosis □ Role of nurse
IX	10	Nursing care of a patient with obstructive airway <ul style="list-style-type: none"> □ Assessment □ Use of artificial airway □ Endotracheal intubation, tracheostomy and its care □ Complication, minimum cuff leak, securing tubes Oxygen delivery systems. <ul style="list-style-type: none"> □ Nasal Cannula

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Oxygen mask, Venturi mask □ Partial rebreathing bag □ Bi-PAP and C-PAP masks □ Uses, advantages, disadvantages, nursing implications of each. Mechanical Ventilation <ul style="list-style-type: none"> □ Principles of mechanical ventilation □ Types of mechanical ventilation and ventilators. □ Modes of ventilation, advantage, disadvantage, complications. □ PEEP therapy, indications, physiology, and complications. Weaning off the ventilator. □ Nursing assessment and interventions of ventilated patient.
X	10	Congenital Heart Diseases, <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> • Embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger's complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia. • Coarctation of aorta. • Ebstein's anomaly • Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.
XI	10	Pharmacology <ul style="list-style-type: none"> □ Review □ Pharmacokinetics □ Analgesics/Anti inflammatory agents □ Antibiotics, antiseptics □ Drug reaction & toxicity □ Drugs used in cardiac emergencies □ Blood and blood components <ul style="list-style-type: none"> • Antithrombolytic agents • Inotropic agents • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vaso dilators • ACE inhibitors. • Anticoagulents • Antiarrhythmic drugs. • Anti hypertensives • Diuretics • Sedatives and tranquilizers. • Digitalis.

Unit	Hours	Content
		<ul style="list-style-type: none"> • Antilipemics □ Principles of drug administration, role and responsibilities of nurses and care of drugs
XII	20	<p>Nursing Care of patient undergoing cardio thoracic surgery</p> <ul style="list-style-type: none"> □ Indications, selection of patient □ Preoperative assessment and preparation; counselling. □ Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass. □ Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. □ Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc □ Immediate postoperative care : assessment, post operative problems and interventions : Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate., ventilation/perfusion, Neurological problems, renal problems, Psychological problems. □ Chest physiotherapy □ Nursing interventions- life style modification, complementary therapy/alternative systems of medicine. □ Intermediate and late post operative care after CABG, valve surgery, others. <p>Follow up care</p>
XIII	5	<p>Cardiac rehabilitation</p> <ul style="list-style-type: none"> □ Process □ Physical evaluation □ Life style modification □ Physical conditioning for cardiovascular efficiency through exercise □ Counseling □ Follow up care
XIV	5	<p>Intensive Coronary Care Unit/intensive cardio thoracic unit:</p> <ul style="list-style-type: none"> □ Quality assurance <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome □ Nurse's role in the management of I.C.C.U and ICTU. □ Mobile coronary care unit. □ Planning inservice educational programme and teaching

S.No.	Deptt/ Unit	No. of Week	Total Hours
1.	Cardio thoracic Medical	4	120 Hours
	Surgical	4	120 Hours
2.	OTs (Cardiac and thoracic)	4	120 Hours
3.	Casualty	2	60 Hours
4.	Diagnostic labs including cath lab	2	60 Hours
5.	ICCU	4	120 Hours
6.	ICU	4	120 Hours
7.	CCU	4	120 Hours
8.	Paediatric Intensive	2	60 Hours
9.	OPD	2	60 Hours
	Total	32 Weeks	960 Hours

Essential Nursing Skills

Procedures Observed

1. Echo cardiogram
2. Ultrasound
3. Monitoring JVP , CVP
4. CT SCAN
5. MRI
6. Pet SCAN
7. Angiography
8. Cardiac catheterisation
9. Angioplasty
10. Various Surgeries
11. Any other

I. Procedures Assisted

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion
10. Tracheostomy tube insertion
11. Cardiac catheterisation
12. Angiogram
13. Defibrillation
14. Treadmill test

- (29)
15. Echo cardiography
 16. Doppler ultrasound
 17. Cardiac surgery
 18. Insertion of chest tube
 19. CVP Monitoring
 20. Measuring pulmonary artery pressure by Swan-Ganz Catheter
 21. Cardiac Pacing

II. Procedures Performed

1. Preparation of assessment tool for CT client (Cardiac, thoracic and vascular).
2. ECG - Recording, Reading, Identification of abnormalities
3. Oxygen therapy - Cylinder, central supply,
Catheter, nasal canula, mask, tent
Through ET and Tracheostomy tube
Manual resuscitation bag
4. Mechanical ventilation
5. Spirometer
6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including - Breathing Exercises
Coughing Exercises
Percussion & Vibration
11. Suctioning - Oropharyngeal, nasotracheal, Endotracheal
Through tracheostomy tube
12. Artificial airway cuff maintenance
13. CPR
14. Care of client on ventilator
15. Identification of different - Arrhythmias
Abnormal pulses, respirations
B.P. Variation
Heart sounds
Breath sounds
16. Pulse oxymetry
17. Introduction of intracath
18. Bolus I.V. Injection
19. Life line
20. Maintenance of "Heplock"
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in
thrombophlebitis
23. Identification of Homans signs
24. Buerger - Allen exercises

CLINICAL SPECIALITY – II

MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

Placement: II Year

Hours of instruction
Theory: 150 hours
Practical: 950 hours
Total : 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of Critical care Nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.

Objectives

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

1. Appreciate trends and issues related to Critical Care Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patients
3. Describe the various drugs used in critical care and nurses responsibility
4. Perform physical, psychosocial & spiritual assessment
5. Demonstrate advance skills/competence in managing critically ill patients including Advance Cardiac Life Support.
6. Demonstrate skill in handling various equipments/gadgets used for critical care
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Assess and manage pain .
11. Identify complications & take appropriate measures.
12. Discuss the legal and ethical issues in critical care nursing
13. Assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing

16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

Course Content

Unit	Hours	Content
I	5	Introduction to Critical Care Nursing <ul style="list-style-type: none"> □ Historical review- Progressive patient care (PPC) □ Review of anatomy and physiology of vital organs, fluid and electrolyte balance □ 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
II	10	Concept of Holistic care applied to critical care nursing practice <ul style="list-style-type: none"> □ Impact of critical care environment on patients:- <ul style="list-style-type: none"> • 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:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupressure □ Stress and burnout syndrome among health team members
III	14	Review <ul style="list-style-type: none"> □ Pharmacokinetics □ Analgesics/Anti inflammatory agents □ Antibiotics, antiseptics □ Drug reaction & toxicity □ Drugs used in critical care unit (inclusive of ionotropic, life saving drugs) □ Drugs used in various body systems □ IV fluids and electrolytes □ Blood and blood components □ Principles of drug administration, role of nurses and care of drugs
IV	5	Pain Management <ul style="list-style-type: none"> □ Pain & Sedation in Critically ill patients □ Theories of pain, Types of pain, Pain assessment, Systemic responses to pain □ pain management-pharmacological and non-pharmacological measures □ Placebo effect

Unit	Hours	Content
V	5	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 safety measures, Prophylaxis for staff
VI	10	Gastrointestinal System <ul style="list-style-type: none"> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis
VII	10	Renal System <ul style="list-style-type: none"> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venous hemodialysis, Renal Transplant,
VIII	10	Nervous System <ul style="list-style-type: none"> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:-Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuilleinBarre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome
IX	5	Endocrine System <ul style="list-style-type: none"> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH)
X	15	Management of other Emergency Conditions <ul style="list-style-type: none"> Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome Disseminated Intravascular Coagulation Drug Overdose and Poisoning, Acquired Immunodeficiency Syndrome (AIDS)

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Ophthalmic: Eye injuries, Glaucoma, retinal detachment □ Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions □ Psychiatric emergencies; suicide, crisis intervention
XI	20	Cardiovascular emergencies <ul style="list-style-type: none"> □ Principles of Nursing in caring for patient's with Cardiovascular disorders □ Assessment: Cardiovascular system: 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 & Nursing management of:-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 pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation
XII	15	Respiratory System <ul style="list-style-type: none"> □ Acid-base balance & imbalance □ 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 drug 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

Unit	Hours	Content
XIII	7	Burns <ul style="list-style-type: none"> □ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical & 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
XIV	5	Obstetrical Emergencies <ul style="list-style-type: none"> □ Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Puerperal sepsis, Obstetrical shock
XV	10	Neonatal Paediatric 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"> • Neonatal emergencies □ Asphyxia Neonatorum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- <ul style="list-style-type: none"> • 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, seizures, traumas, Status asthmaticus
XVI	2	Legal and ethical issues in critical care-Nurse's role <ul style="list-style-type: none"> □ Brain death □ Organ donation & Counselling □ Do Not Resuscitate(DNR) □ Euthanasia □ Living will
XVII	2	Quality assurance <ul style="list-style-type: none"> □ Standards, Protocols, Policies, Procedures □ Infection control; Standard safety measures □ Nursing audit □ Staffing □ Design of ICU/CCU

Practical

Total = 960 Hours
1 Week = 30 Hours

S.No.	Deptt./Unit	No. of Week	Total Hours
3	Burns ICU	2	60 Hours
5	Medical ICU	8	240 Hours
6	Surgical ICU	12	360 Hours
9	CCU	2	60 Hours
10	Emergency Department	3	90 Hours
12	Dialysis Unit	1	30 Hours
13	Transplant Room	2	60 Hours
14	Paediatric/ NICU	2	60 Hours
	Total	32 Weeks	960 Hours

ESSENTIAL CRITICAL CARE NURSING SKILLS

I. Procedures Observed

1. CT Scan
2. MRI
3. EEG
4. Hemodialysis
5. Endoscopic Retrograde cholangio Pancreaticogram(ERCP)
6. Heart/ Neuro/GI./ Renal Surgeries

II. Procedures Assisted

1. Advanced life support system
2. Basic cardiac life support
3. Arterial line/arterial pressure monitoring/blood taking
4. Arterial blood gas
5. ECG recording
6. Blood transfusion
7. IV cannulation therapy
8. Arterial Catheterization
9. Chest tube insertion
10. Endotracheal intubations
11. Ventilation

Unit	Hours
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12. Insertion of central line/cvp line
13. Connecting lines for dialysis

III. Procedure Performed

1. Airway management
 - a. Application of oropharyngeal airway
 - b. Oxygen therapy
 - c. CPAP (Continuous Positive Airway pressure)
 - d. Care of tracheostomy
 - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patients

Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities
6. Admission & discharge of critically ill patients
7. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education.
8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.
9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/tuberculin, monitoring fluid therapy, blood administration.
10. Setting up dialysis machine and starting, monitoring and closing dialysis
11. Procedures for prevention of infections:

Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
12. Collection of specimen.
13. Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

IV Other Procedures:

CLINICAL SPECIALITY-II

MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement : II Year

Hours of Instruction
Theory : 150 hours
Practicals : 950 hours
Total : 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing

Objectives

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care
9. Appreciate the role of alternative systems of medicine in care of cancer patients
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies
12. Counsel the patients with cancer and their families
13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team
15. Collaborate with other agencies and utilize resources in caring for cancer patients.

16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

Content outline

Unit	Hours.	Content
I	4	Introduction <ul style="list-style-type: none"> □ Epidemiology-Incidence, Prevalence – Global, National, State and Local □ Disease burden, concept of cancer, risk factors □ Historical perspectives □ Trends and issues □ Principles of cancer management □ Roles and responsibilities of oncology nurse
II	5	The Nature of Cancer <ul style="list-style-type: none"> □ Normal cell biology □ The Immune system □ Pathological and pathophysiological changes in tissues <ul style="list-style-type: none"> • Biology of the cancer cell • Clone formation Transformation • Tumor stem lines • Structure of a solid tumor • Products produced by the tumor • Systemic effects of tumor growth
III	4	Etiology of Cancer <ul style="list-style-type: none"> □ Carcinogenesis, □ Theories of cancer causation □ Risk factors □ Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation □ Hormone changes, diet, emotional factors.
IV	10	Diagnostic Evaluation <ul style="list-style-type: none"> □ Health assessment: History taking, physical examination, □ Staging and grading of tumors, □ TNM Classification □ Common diagnostic tests <ul style="list-style-type: none"> • Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay • Cytology: Fine needle aspiration cytology(FNAC) • Histopathology: Biopsy • Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography(PET), Radio nuclide imaging, Functional metabolism imaging • Endoscopies <p>Nurses responsibilities in diagnostic measures</p>

V	10	Content
		Levels of prevention and care <ul style="list-style-type: none"> □ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, □ Self examination-Oral, Breast, Testicular □ Secondary prevention – early diagnosis. □ Screening □ Tertiary prevention – disability limitation, □ Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc □ Patient and family education, □ Discharge instruction, follow-up care and use of community resources.
VI	25	Cancer Treatment Modalities and Nurse's Role <ul style="list-style-type: none"> □ Surgery <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances □ Chemotherapy <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions □ Radiation Therapy <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments:Linear accelerator, cobalt, Implants,Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy – • External radiotherapy • Internal radiotherapy – unsealed, • Sealed sources. • Effectiveness of radiotherapy-Radiosensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhaba Atomic Research Centre(BARC)

Unit	Hours.	Content
		<ul style="list-style-type: none"> □ Bone Marrow Transplantation /Stem Cell Transplantation <ul style="list-style-type: none"> • Types, indications, transplantation procedure, complications and nursing management • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues □ Immunotherapy (Biotherapy) <ul style="list-style-type: none"> • Concepts and principles • Classification of agents • Treatment and applications □ Gene Therapy <ul style="list-style-type: none"> • Current Concepts and practices □ Alternative and Complementary Therapies <ul style="list-style-type: none"> • Current practices
VII	10	<ul style="list-style-type: none"> □ Pain management:- Theories, types and <ul style="list-style-type: none"> • Nature of cancer pain • Pathophysiology of pain • Pain threshold □ Assessment of pain <ul style="list-style-type: none"> • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient controlled analgesia(PCA) • Other invasive techniques of pain control • Recent developments in Cancer pain □ Non- Pharmacological pain relief technique- <ul style="list-style-type: none"> • Complementary therapies(Music, massage, meditation, relaxation techniques, biofeed back etc) • Psychological intervention in pain control • Alternative system of medicines <p>Role of nurse</p>
VIII	5	<p>Palliative care</p> <ul style="list-style-type: none"> □ Definition and scope, philosophy □ Concept and elements of palliative care □ Global and Indian perspective of palliative care □ Quality of life issues □ Communication skill □ Nursing perspective of palliative care and its elements □ Home care □ Hospice care <p>Role of nurse in palliative care</p>

Unit	Hours.	Content
IX	2	<ul style="list-style-type: none"> □ Infection control: <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care • Standard safety measures
X	30	Nursing Care of Patients With Specific Malignant Disorders <ul style="list-style-type: none"> □ Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver & pancreas, care of ostomies/stoma □ Respiratory malignancies □ Genito urinary system malignancies- prostate Bladder, renal testicular malignancies, □ Gynecological malignancies-cervix, uterus, ovary □ Hematological malignancies-Lymphomas, Leukemias. □ Malignancies of musculoskeletal system □ Endocrine malignancies □ Skin □ Head and Neck -brain tumors □ Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)
XI	10	Paediatric malignancies <ul style="list-style-type: none"> □ Leukemia, Lymphoma, Neuro- blastoma □ Wilm's tumor, Soft tissue sarcoma, Retinoblastoma □ Nursing Management of children with Paediatric Malignancies
XII	15	Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient <ul style="list-style-type: none"> □ <u>Nutrition</u>: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations □ Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop Other symptoms <ul style="list-style-type: none"> □ Dyspepsia & hiccup, dyspnoea □ intestinal obstruction, □ Fungating wounds □ Anxiety & depression, insomnia □ Lymph edema Impact of cancer on sexuality: <ul style="list-style-type: none"> □ Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient □ Nursing management of cancer patients experiencing sexual dysfunction □ Sexual counseling

Unit	Hours.	Content
XIII	10	Cancer Emergencies <ul style="list-style-type: none"> ❑ Disseminated intravascular coagulation(DIC), ❑ Malignant pleural effusion ❑ Neoplastic cardiac tamponade and septic shock spinal cord compression ❑ Superior venacava syndrome ❑ Metabolic emergency: hyper and hypo calcemia ❑ Surgical emergency ❑ Urological emergency ❑ Hemorrhage ❑ Organ obstruction ❑ Brain metastasis ❑ Nurses role in managing oncologic emergencies
XIV	8	Psycho-Social Aspects of Nursing Care <ul style="list-style-type: none"> ❑ Psychological responses of patients with cancer ❑ Psychosocial assessment - ❑ Crisis intervention, coping mechanisms ❑ Stress management, spiritual/cultural care and needs ❑ Counseling: individual and family ❑ Maximizing quality of life of patient and family Ethical, moral and legal issues- <ul style="list-style-type: none"> ❑ End of life care ❑ Grief and grieving process ❑ Bereavement support ❑ Care of Nurses who care for the dying.
XV	2	Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc <ul style="list-style-type: none"> ❑ Practice Standards of oncology nursing <ul style="list-style-type: none"> • Policies and Procedures ❑ Establishing Standing orders and Protocols Quality Assurance Programme in oncology units <ul style="list-style-type: none"> ❑ Nursing audit

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Clinical Experience

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Medical Oncology ward	6	180 Hours
2	Surgical Oncology ward	6	180 Hours
3	Bone marrow transplantation Unit	2	60 Hours
4	Operation Theatre	2	60 Hours
5	Radiotherapy Unit	2	60 Hours
6	Chemotherapy Unit	4	120 Hours
7	Out patient department and pain clinic	2	60 Hours
8	Pediatric Oncology ward	2	60 Hours
9	Palliative Care ward	2	60 Hours
10	Community oncology	2	60 Hours
11	Hospice	1	30 Hours
12	Other field visits	1	30 Hours
	Total	32 Weeks	960 Hours

Procedures Observed

1. CT Scan
2. MRI
3. PET Scan (Positron Emission Tomography)
4. Ultra sound
5. Mammography
6. Radio Nuclide Imaging
7. Bone Scan
8. Thyroid Function Test
9. Functional and Metabolic Imaging
10. Transportation of radioactive materials
11. Others

Procedures Assisted

1. IV cannulation - Open method
2. Chemotherapy
3. Radiotherapy - Brachytherapy - Low Density Radiation, High Density Radiation.
4. Interstitial Implantation
5. Bio-therapy and Gene therapy
6. Teletherapy - Treatment planning
7. Bone marrow aspiration and biopsy
8. Biopsy - tissue
9. FNAC - Fine Needle Aspiration Cytology and biopsy

10. Advance Cardiac life support
11. Endotracheal intubation
12. Positive Pressure Ventilation
13. Tracheostomy
14. Thoracentesis
15. Paracentesis
16. Lumbar Puncture
17. Arterial Blood Gas
18. Nerve Block
19. Chest tube insertion
20. Intercostal drainage
21. CVP monitoring

Procedure Performed

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. Pap smear
8. IV cannulation
9. Care of surgical flaps
10. Care of ostomies
11. Blood transfusion and component therapy
12. Counseling
13. Practice standard safety measures
14. Care of dead body and mortuary formalities

Other procedures

(As per the institutional protocol):

1. Alternative therapies

CLINICAL SPECIALITY - II**MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING**

Placement : II Years

Hours of Instruction
Theory - 150 Hours
Practical- 950 Hours
Total : 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neuroscience nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.

Objectives

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

1. Appreciate trends and issues related to neurology and neurosurgical Nursing.
2. Review the anatomy and physiology of nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
4. Perform neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of neuroscience nursing
6. Describe the various drugs used in neurosciences and nurses responsibility
7. Assist in various therapeutic and surgical procedures in neuroscience nursing
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing

13. Organise and conduct inservice education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

Course Content

Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> □ Introduction to neuroscience(neurological and neurosurgical) nursing <ul style="list-style-type: none"> • History-Development in neurological and neurosurgical nursing, Service & education • Emerging trends and issues in neurology and neuro surgery and its implication to nursing. • neurological and neurosurgical problems – • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in neurological and neurosurgical nursing
II	5	Epidemiology <ul style="list-style-type: none"> □ Major health problems- □ Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. □ Health promotion, disease prevention, life style modification and its implications to nursing <p>Alternate system of medicine / complementary therapies</p>
III	10	Review of Anatomy and physiology <ul style="list-style-type: none"> □ Embryology □ Structure and functions of Nervous system- CNS, ANS, cerebral circulation , cranial and spinal nerves and reflexes, motor and sensory functions □ Sensory organs

Unit	Hours	Content
IV	15	Assessment and diagnostic measures <ul style="list-style-type: none"> □ Assessment <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing. • Common assessment abnormalities □ Diagnostic measures <ul style="list-style-type: none"> • Cerebro spinal fluid analysis • Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology. • Electorgraphic studies- Electro encephalo graphy, MEG, EMG, video EEG, • Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials • Ultrasound studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>
V	5	Meeting Nutritional needs of neurological patients <ul style="list-style-type: none"> □ Basic nutritional requirements □ Metabolic changes following injury and starvation □ Nutritional assessment □ Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs □ Special metabolic and electrolyte imbalances □ Chronic fatigue syndrome
VI	5	Drugs used in neurological and neurosurgical disorders <ul style="list-style-type: none"> □ Classification □ Indications, contraindications, actions and effects, toxic effects <p>Role of nurse</p>

Unit	Hours	Content
VII	10	Traumatic conditions. <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"> • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness
VIII	10	Cerebro vascular disorders. <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"> • Stroke & arterio venous thrombosis. • Haemorrhagic embolus. • Cerebro vascular accidents. • Intracranial aneurysm. • Subarchnoid Haemorrhage. • Arterio venous fistula. • Brain tumours □ Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.
IX	10	Degenerating and demyelinating disorders <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"> • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, wilson's disease, essential tremors • Dementia. • Parkinson's disease. • Multiple sclerosis. • Alzemer's
X	10	Neuro infections <ul style="list-style-type: none"> □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Neuro infections <ul style="list-style-type: none"> • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess.

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Unit	Hours	Content
XI	10	Paroxysmal disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Epilepsy and seizures. • Status epilepticus. • Syncope. • Menier's syndrome. • Cephalgia.
XII	10	Developmental disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Hydrocephalus. • Craniosynostosis. • spina bifida- Meningocele, Meningomyelocele encephalocele • syringomyelia. • Cerebro vascular system anomalies. • Cerebral palsies. • Down's syndrome
XIII	10	Neuro muscular disorders. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Polyneuritis - G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell's palsy. • Menier's disease • Carpal tunnel syndrome • Peripheral neuropathies
XIV	5	Neoplasms - surgical conditions. □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Space occupying lesions -types • Common tumors of CNS,
XV	5	Other disorders □ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of □ Metabolic disorders- diabetes, insipidus, metabolic encephalopathy □ Sleep disorders □ Auto immune disorders- multiple sclerosis, inflammatory myopathies

Unit	Hours	Content
XVI	10	Neuro 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"> • Increased intracranial pressure • Unconscious • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents
XVII	5	Rehabilitation. <ul style="list-style-type: none"> □ Concept and Principles of Rehabilitation. □ Factors affecting quality of life and coping □ Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain □ Physiotherapy. □ Counselling □ Care giver's role Speech & Language. -Neurogenic communication disorders, Speech therapy
XVIII	5	Ethical and legal issues in neuroscience nursing <ul style="list-style-type: none"> □ Brain death and organ transplantation □ Euthanasia □ Negligence and malpractice □ Nosocomial infections
XIX	5	<ul style="list-style-type: none"> □ Quality assurance in neurological nursing practice □ Role of advance practitioner in neurological nursing □ Professional practice standards □ Quality control in neurologic nursing □ Nursing audit □ Neuro ICU <ul style="list-style-type: none"> • Philosophy, aims and objectives • Policies, staffing pattern, design and physical plan of neuroICU • Team approach, functions • Psychosocial aspects in relation to staff and clients of neuro ICU, • In-service education

Practical

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Total = 960 Hours
1 Week = 30 Hours

S.No.	AREA OF POSTING	No. of Week	Total Hours
1	O.P.D.	2	60
2	Casualty	2	60
3	Diagnostics	2	60
4	Neuro psychiatry	1	30
5	Neuro Medical wards	4	120
6	Paediatric Neuro ward	2	60
7	Neuro surgical wards	4	120
8	Head Injury ward	3	90
9	ICU- neuro medicine	4	120
10	I.C.U.- neuro surgical	4	120
11	Rehabilitation	2	60
12	Operation Theatre	2	60
	Total	32 Weeks	960 Hours

ESSENTIAL NEURO NURSING SKILLS

I. Procedures Observed

1. CT scan
2. MRI
3. PET
4. EEG
5. EMG
6. Sleep pattern studies/Therapy
7. Radiographical studies
8. Neuro surgeries
9. Nerve conduction studies
10. Ultrasound studies
11. Any other

II. Procedures Assisted

1. Advanced Cardiac life support
2. Lumbar Puncture
3. Biopsies - muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion
7. IV cannulation - open method

8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cerebral angiography
14. Myelography
15. Neuro surgeries

III. Procedures Performed:

1. Airway management
 - a. Application of Oro Pharyngeal Airway
 - b. Care of Tracheostomy
 - c. Conduct Endotracheal Intubation
 - d. use of AMBU bag, artificial respirators
 - e. Setting of Ventilators and Care of patients on ventilators
2. Cardio Pulmonary Resuscitation -Defibrillation
3. Neurological assessment -Glasgow coma scale
4. Gastric Lavage
5. IV Cannulation
6. Administration of emergency IV Drugs, fluid
7. Care of patients with incontinence, bladder training
Catheterization
8. Care of patients on traction related to the neurological conditions
9. Blood Administration.
10. Muscle strengthening exercises
11. Guidance and counseling
12. Monitoring - management and care of monitors.

IV. Other Procedures:

CLINICAL SPECIALITY - II

MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING

Placement : II Year

Hour of Instruction
Theory : 150 Hours
Practical : 950 Hours
Total : 1100 Hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing

Objectives

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

1. Appreciate trends and issues related to **nephro and urological** nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of **nephro and urological** conditions
3. Perform physical, psychosocial & spiritual assessment
4. Assist in various diagnostic, therapeutic and surgical interventions
5. Provide comprehensive nursing care to patients with **nephro and urological conditions**
6. Describe the various drugs used in **nephro and urological** conditions and nurses responsibility
7. Demonstrate skill in handling various equipments/gadgets used for patients with **nephro and urological** conditions
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
12. Discuss the legal and ethical issues in **nephro and urological** nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers

14. Appreciate the role of alternative system of medicine in the care of patient
15. Incorporate evidence based nursing practice and identify the areas of research in the field of **nephro and urological nursing**
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit
18. Develop standards of nephro urological nursing practice

Course Content

Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> □ Historical development: trends and issues in the field of nephro and urological nursing. □ nephro and urological problems □ Concepts, principles and nursing perspectives □ Ethical and legal issues □ Evidence based nursing and its application in nephro and urological nursing(to be incorporated in all the units)
II	5	Epidemiology <ul style="list-style-type: none"> □ Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders □ Risk factors associated with nephro and urological conditions conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations □ Health promotion, disease prevention, life style modification and its implications to nursing <p>Alternate system of medicine/complementary therapies</p>
III	5	Review of anatomy and physiology of urinary system <ul style="list-style-type: none"> □ Embryology □ Structure and functions □ Renal circulation □ Physiology of urine formation □ Fluid and electrolyte balance □ Acid base balance □ Immunology specific to kidney
IV	20	Assessment and diagnostic measures <ul style="list-style-type: none"> □ History taking □ Physical assessment, psychosocial assessment □ Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, □ Diagnostic tests-urine studies, blood chemistry, radiological procedures-KUB, IVP, nephrotomogram, retrograde pyelogram, renal arteriogram, renal ultrasound, CT scan, MRI, cystogram, renal

Unit	Hours	Content
		<p>scan, biopsy, endoscopy-cystoscopy, urodynamics studies-cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videourodynamics, Whitaker study</p> <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>
V	5	<p>Renal immunopathy/Immunopathology</p> <ul style="list-style-type: none"> □ General Concept of immunopathology □ Immune mechanism of glomerular vascular disease □ Role of mediator systems in glomerular vascular disease
VI	15	<p>Urological Disorders and Nursing Management</p> <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of □ Urinary tract infections- pyelonephritis, lower urinary tract infections, □ Disorders for ureters, bladder and urethra □ Urinary tract infections- □ Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux, □ Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities □ Benign prostatic hypertrophy(BPH) □ Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters □ Urethral disorders- tumours, trauma, congenital anomalies of ureters,
VII	25	<p>Glomerular disorders and nursing management</p> <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of □ Glomerular nephritis- chronic, acute, nephritic syndrome □ Acute Renal failure and chronic renal failure. □ Renal calculi □ Renal tumours-benign and malignant □ Renal trauma □ Renal abscess □ Diabetic nephropathy □ Vascular disorders □ Renal tuberculosis □ Polycystic □ Congenital disorders □ Hereditary renal disorders
VIII	10	<ul style="list-style-type: none"> □ Management of Renal emergencies □ Anuria □ Acute Renal failure □ Poisoning □ Trauma □ Urine retention

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Acute graft rejection □ Hematuria □ Nurse's role
IX	10	Drugs used in urinary disorders <ul style="list-style-type: none"> □ Classification □ Indications, contraindications, actions and effects, toxic effects □ Role of nurse
X	10	Dialysis <ul style="list-style-type: none"> □ Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> • Hemodialysis- vascular access sites- temporary and permanent • Peritoneal dialysis □ Dialysis Procedures- steps, equipments, maintenance, □ Role of nurse- pre dialysis, intra and post dialysis □ Complications- □ Counseling □ patient education □ Records and reports
XI	10	<ul style="list-style-type: none"> □ Kidney transplantation □ Nursing management of a patient with Kidney transplantation □ Kidney transplantations- a historical review □ Immunology of graft rejections □ The recipient of a renal transplant □ Renal preservations □ Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation □ Surgical techniques of renal transplantations □ Chronic renal transplant rejection □ Complication after KTP: Vascular and lymphatic, Uroloical, cardiovascular, liver and neurological, infectious complication □ KTP in children and management of pediatric patient with KTP □ KTP in developing countries □ Results of KTP □ Work up of donor and recipient for renal transplant □ Psychological aspect of KTP and organ donations □ Ethics in transplants □ Cadaveric transplantation
XII	5	<ul style="list-style-type: none"> □ Rehabilitation of patient with nephrological problems □ Risk factors and prevention □ Rehabilitation of patients on dialysis and after kidney transplant □ Rehabilitation of patients after urinary diversions □ Family and patient teaching
XIII	10	Pediatric urinary disorders <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of children with Renal Diseases -UTI, ureteral reflux, glomerulo nephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolytic uraemic

Unit	Hours	Content
		syndrome. Benign recurrent haematuria, nephropathy, wilms' tumour
XIV	5	Critical care units: dialysis , KTP unit <ul style="list-style-type: none"> □ Philosophy, aims and objectives □ Policies, staffing pattern, design and physical plan of Dialysis and KTP units □ Team approach, functions □ Psychosocial aspects in relation to staff and clients of ICU, dialysis unit □ In-service education □ Ethical and legal issues
XV	5	<ul style="list-style-type: none"> □ Quality assurance in nephrological nursing practice □ Role of advance practitioner in nephrological nursing □ Professional practice standards □ Quality control in nephrological nursing □ Nursing audit

Practicals

Total = 960 Hours
1 Week = 30 Hours

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Nephrology Ward	6	180 Hours
2	Pediatrics	2	60 Hours
3	Critical Care Unit	2	60 Hours
4	Urology Ward	6	180 Hours
5	Dialysis Unit	4	120 Hours
6	Kidney Transplantation Unit	2	60 Hours
7	URO OT	2	60 Hours
8	Emergency Wards	2	60 Hours
9	Uro Nephro OPDs	4	120 Hours
10	Diagnostic Labs	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures observed

I. Procedures Observed

1. CT Scan
2. MRI
3. Radiographic studies
4. Urodynamics
5. Hemodialysis
6. Renal Surgeries

II. Procedures Assisted

1. Blood transfusion
2. I V cannulation therapy
3. Arterial Catheterization
4. Insertion of central line/cvp line
5. Connecting lines for dialysis
6. Peritoneal dialysis
7. Renal biopsy
8. Endoscopies- Bladder, urethra

III. Procedure Performed

1. Health assessment
2. Insertion of urethral and suprapubic catheters
3. Urine analysis

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4. Catheterisation
 5. Peritoneal dialysis
 6. Bladder irrigation
 7. Care of ostomies
 8. Care of urinary drainage
 9. Bladder training
 10. Care of vascular access
 11. Setting up dialysis machine and starting, monitoring and closing dialysis
 12. Procedures for prevention of infections:
 13. Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
 14. Collection of specimen.
 15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance,
 16. Nutritional needs , diet therapy & patient education.
 17. Counselling

IV. OTHER PROCEDURES:

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Head injury □ Chest injury <ul style="list-style-type: none"> • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation
V	8	Infections of Bones and Joints <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"> • Tuberculosis • Osteomyelitis • Arthritis • Leprosy
VI	5	Bone Tumours <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"> • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors
VII	10	Deformities <ul style="list-style-type: none"> □ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis □ Congenital disorders: Congenital dislocation of hip (CDH), Dislocation of patella, knee, □ Varus and valgus deformities, □ Deformities of digits, □ Congenital torticollis. □ Meningocele, meningomyelocele, spina bifida, □ Chromosomal disorders. □ Computer related deformities
VIII	5	Disorders of the spine <ul style="list-style-type: none"> □ Intervertebral disc prolapse, Fracture of the spine □ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis
IX	5	Nutritional/Metabolic and Endocrine Disorders <ul style="list-style-type: none"> □ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Rickets, • Scurvy, • Hyper vitaminosis A and D, • Osteomalacia,

Unit	Hours	Content
		<ul style="list-style-type: none"> • Osteoporosis • Paget's disease, • gout, • Gigantism, • Dwarfism, • Acromegaly. • Therapeutic diets for various orthopedic disorders
X	8	Neuro-Muscular Disorders: <ul style="list-style-type: none"> ▫ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Poliomyelitis, Cerebral Palsy • Myasthenia gravis • Spina bifida. • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy
XI	8	Chronic/Degenerative Diseases of Joints and Autoimmune Disorders: <ul style="list-style-type: none"> ▫ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: <ul style="list-style-type: none"> • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus
XII	5	Orthopedic Disorders in Children: <ul style="list-style-type: none"> ▫ General and special consideration on pediatric orthopedics ▫ Genetic disorders ▫ Congenital anomalies ▫ Growth disorders ▫ Genetic counseling ▫ Nurses role in genetic counseling
XIII	5	Geriatric Problems <ul style="list-style-type: none"> ▫ Geriatric population, types of disabilities, causes, treatment and Management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. ▫ Care at home – involvement of family and community, follow up care and rehabilitation
XIV	6	Pharmacokinetics <ul style="list-style-type: none"> ▫ Principles of drug administration ▫ Analgesics and anti inflammatory agents ▫ Antibiotics, Antiseptics, ▫ Drugs used in orthopedics and neuromuscular disorders ▫ Blood and blood components ▫ Care of drugs and nurses role

Unit	Hours	Content
XV	30	<p>Nurses Role in Orthopedic Conditions</p> <ul style="list-style-type: none"> □ Gait analysis □ Urodynamic studies □ Prevention of physical deformities □ Alteration of body temperature regulatory system and immune systems □ Immobilization – cast, splints, braces and tractions □ Prevention and care of problems related to immobility □ Altered sleep patterns □ Impaired communication □ Self care and activities of daily living □ Bladder and bowel rehabilitation □ Sensory function rehabilitation □ Psychological reaction related to disabilities and disorders. □ Coping of individual and family with disabilities and disorders □ Maintaining sexuality □ Spirituality – A rehabilitative prospective <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> □ Replacement surgeries – Hip, Knee, Shoulder □ Spine surgeries □ Grafts and flaps surgery □ Deformity correction. <p>Physiotherapy</p> <ul style="list-style-type: none"> □ Concepts, Principles, purpose, <ul style="list-style-type: none"> • Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques, • Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat, • Chest physiotherapy
XVI	8	<p>Rehabilitation</p> <ul style="list-style-type: none"> □ Principles of rehabilitation, definition, philosophy, process, □ Various types of therapies □ Special therapies and alternative therapies □ Rehabilitation counseling □ Preventive and restorative measures. □ Community based rehabilitation (CBR) □ Challenges in rehabilitation. □ Role of the nurse in rehabilitation, □ Legal and ethical issues in rehabilitation nursing □ Occupational therapy
XVII	5	<p>National Policies and Programmes</p> <ul style="list-style-type: none"> □ National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes □ Regional rehabilitation centers etc.

Unit	Hours	Content
		<ul style="list-style-type: none"> □ Public policy in rehabilitation nursing □ The persons with disabilities act 1995, □ Mental rehabilitation and Multiple disabilities act 1992, □ The National Trust Rules 1999 and 2000 □ Rehabilitation Council of India □ Legal and ethical aspects in orthopedic nursing □ Rehabilitation health team and different categories of team members.
XVIII	4	Quality assurance <ul style="list-style-type: none"> □ Standards, Protocols, Policies, Procedures □ Nursing audit □ Staffing □ Design of orthopedic, physiotherapy and rehabilitation unit

Practicals

1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
2. Application of tractions and plaster casts and removal of tractions and plaster casts and other appliances.
3. Apply Theories and Nursing Process in the management of patients with orthopedic conditions.
4. Provide various types of physical and rehabilitative therapies
5. Provide health education on related disease conditions.
6. Unit management and plan - designing

Clinical Experience

Total = 960 Hours
1 Week = 30 Hours

S. No.	Deptt./Unit	No. of Week	Total Hours
1	Orthopedic Ward	8	240 Hours
2	Orthopedic Operation theatre	4	120 Hours
3	Neurosurgical Ward	2	60 Hours
4	Orthopedic O.P.D.	4	120 Hours
5	Casualty/Emergency and Trauma	4	120 Hours
6	Rehabilitation Units	2	60 Hours
7	Physiotherapy Unit	4	120 Hours
8	Paediatric /paediatric surgery unit	2	60 Hours
9	Field Visit	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures Observed

1. X Ray
2. Ultrasound
3. MRI
4. C T Scan/bone scan
5. Arthroscopy
6. Electrothermally - assisted capsule shift or ETAC (Thermal capsulorrhaphy)
7. Fluroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

Procedures Assisted

1. Blood Transfusion
2. IV cannulation and therapy
3. Ventilation
4. Various types of tractions
5. Orthopedic surgeries - Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
6. Injection - Intra articular, intra osseous.
7. Advance Life Support

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Peocedures Performed

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy.
5. Heat therapy
6. Hydrotherapy
7. Therapeutic exercises
8. Use of TENS (Transcutaneous electrical nerve stimulation)
9. Techniques of transportation
10. Crutch walking, walkers, wheel chair.
11. Use of devices for activities of daily living and prevention of deformities.
12. Administration of drugs: IV injection, IV cannulation, and Blood transfusion.
13. Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation.
14. Special skin/ part preparations for orthopedic surgeries.
15. Surgical dressings – Debridement.
16. Bladder and bowel training

Other Procedures

CLINICAL SPECIALITY - II

MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement : II Year

Hours of Instruction

Theory : 150 hrs.

Practical : 950 hrs.

Total : 1100 hrs.

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing

Objectives

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

1. Appreciate trends and issues related to gastro enterology nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Provide comprehensive care to patients with gastrointestinal conditions
7. Describe the various drugs used in gastrointestinal conditions and nurses responsibility
8. Demonstrate skill in handling various equipments/gadgets used for patients with gastrointestinal conditions
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
13. Discuss the legal and ethical issues in GE nursing

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14. Identify the sources of stress and manage burnout syndrome among health care providers
 15. Appreciate the role of alternative system of medicine in care of patient
 16. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing
 17. Teach and supervise nurses and allied health workers.
 18. Design a layout of Gastro enterology intensive care unit (GEICU) , liver care/transplant unit

Course Content

Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> □ Historical development: trends and issues in the field of gastro enterology. □ Gastro enterological problems □ Concepts, principles and nursing perspectives □ Ethical and legal issues □ Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)
II	5	Epidemiology <ul style="list-style-type: none"> □ Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations □ Health promotion, disease prevention, life style modification and its implications to nursing □ National health programmes related to gastro enterology □ Alternate system of medicine/complementary therapies
III	5	Review of anatomy and physiology of gastrointestinal system <ul style="list-style-type: none"> □ Gastrointestinal system □ Liver, biliary and pancreas □ Gerontologic considerations □ Embryology of GI system □ Immunology specific to GI system
IV	15	Assessment and diagnostic measures <ul style="list-style-type: none"> □ History taking □ Physical assessment, psychosocial assessment □ Diagnostic tests <ul style="list-style-type: none"> • Radiological studies:Upper GIT- barium swallow, lower GIT- Barrium enema, • Ultra sound: • Computed tomography • MRI • Cholangiography: Percutaneous transheptatic Cholangiogram(PTC) • Magnetic Resonance Cholangio pancreotography (MRCP) • Nuclear imaging scans(scintigraphy) • Endoscopy

Unit	Hours	Content
		<ul style="list-style-type: none"> • Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangio pancreatography (ERCP) • Endoscopic ultrasound • Peritonoscopy(Laproscopy) • Gastric emptying studies • Blood chemistries: Serum amylase, serum lipase • Liver biopsy • Miscellaneous tests:Gastric analysis, fecal analysis • Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests,Lipid metabolism-serum cholesterol <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>

V	25	<p>Gastro intestinal disorders and nursing management</p> <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of • Disorders of the mouth:Dental caries,Peridontal disease,Acute tooth infection, Stomatitis, Thrush (moniliasis),Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva,Fracture of the jaw • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain • Disorders of the small intestine <ul style="list-style-type: none"> - Malabsorption syndrome - tropical sprue - Gluten - sensitive enteropathy (Coeliac disease) - Inflammatory diseases of intestines and abdomen,,: appendicitis, Peritonities, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome - Chronic inflammatory bowel disease, Ulcerative colites, crohn's disease - Infestations and infections - Worm infestations, Typhoid, Leptospirosis - Solitary rectal ulcer syndrome - Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea <p>Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease, Anal condylomas, Warts</p>
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Unit	Hours	Content
VI	15	Disorder of liver, pancreas gall bladder and nursing management <ul style="list-style-type: none"> □ Disorders of liver biliary tract □ Viral Hepatitis - A, B, C, D & E □ Toxic hepatitis <ul style="list-style-type: none"> • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis • Liver abscess,, • Parasitic and other cysts of the liver • Disorders of the Gall Bladder and Bile Duct: □ Cholecystitis □ Cholelithiasis □ Choledocholithiasis □ Disorders of the pancreas: Pancreatitis, □ Benign tumors of islet cells □ Disorders of the Peritoneum <ul style="list-style-type: none"> • Infections of the peritoneum □ Surgical peritonitis □ Spontaneous bacterial peritonitis □ Tuberculosis peritonitis □ Disorders of the Diaphragm <ul style="list-style-type: none"> • Diaphragmatic hernia • Congenital hernias • Paralysis of diaphragm • Tumors of the diaphragm □ Hiccups
VII	15	Gastro intestinal emergencies and nursing interventions <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of: <ul style="list-style-type: none"> • Esophageal varices, • Ulcer perforation, • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning
VIII	15	<ul style="list-style-type: none"> □ Congenital Anomalies of Esophagus <ul style="list-style-type: none"> • Esophageal atresia • Tracheo esophageal fistula

Unit	Hours	Content
		<ul style="list-style-type: none"> • Esophageal stenosis • Esophageal duplications • Dysphagia - Lusoria - aberrant right subclavian artery compressing esophagus • Esophageal rings - schalzkiring • Esophageal webs <p>□ Congenital Anomalies of Stomach</p> <ul style="list-style-type: none"> • Gastric atresia • Micro gastia • Gastric diverticulum • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis <p>□ Congenital Anomalies of Duodenal</p> <ul style="list-style-type: none"> • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvulus <p>□ Developmental anomalies of the intestine:</p> <ul style="list-style-type: none"> • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia <p>□ Hirschsprung's disease</p>
IX	15	<p>Pharmo Kinetics</p> <ul style="list-style-type: none"> □ Drugs used in GIT □ Principles of administration □ Roles responsibilities of nurses □ Drugs in Peptic ulcer disease □ Proton Pump inhibitors □ H₂ Receptor Antagonists □ Cytoprotective Agents: □ Drugs used in Diarrhea □ Drugs used in constipation □ Drugs used in Inflammatory Bowel Disease □ Aminosalicylates □ Corticosteroids □ Immunomodulators □ chemotherapy □ Antibiotics □ Antiemetics: □ Anticholinergics □ Antihistaminics □ Anthelmintics □ Vitamin Supplements

Unit	Hours	Content
X	10	Nutrition and nutritional problems related to GI system <ul style="list-style-type: none"> □ Nutritional assessment and nursing interventions □ Therapeutic diets □ Adverse reactions between drugs and various foods □ Malnutrition- etiology, clinical manifestations and management □ Tube feeding, parenteral nutrition, total parenteral nutrition □ Obesity- etiology, clinical manifestations and management □ Eating disorders- anorexia nervosa, bulimia nervosa □ Recent advances in nutrition
XI	15	Malignant disorders of gastro intestinal system <ul style="list-style-type: none"> □ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical, other modalities and nursing management of: <ul style="list-style-type: none"> • Malignancy of oral cavity, Lip, Tongue, buccal mucosa, oropharynx, Salivary gland • Esophageal, Gastric, Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma, • Liver, biliary tract and Pancreatic carcinoma
XII	5	Administration and management of GE unit <ul style="list-style-type: none"> □ Design & layout □ Staffing, □ Equipment, supplies, □ Infection control; Standard safety measures □ Quality Assurance:-Nursing audit -records /reports, Norms, policies and protocols □ Practice standards
XIII	5	Education and training in GE care <ul style="list-style-type: none"> □ Staff orientation, training and development, □ In-service education program, <ul style="list-style-type: none"> • Clinical teaching programs

Total = 960 Hours
1 Week = 30 Hours

Practicals

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Diagnostic labs	2	60 Hours
2	Emergency and casualty	3	90 Hours
3	Liver transplant unit	1	30 Hours
4	GE Medical Ward	6	180 Hours
5	GE Surgical Ward	8	240 Hours
6	OT	2	60 Hours
7	ICU	4	120 Hours
8	Pediatric gastroenterology	2	60 Hours
9	Oncology	2	60 Hours
10	GE OPD	2	60 Hours
	Total	32 Weeks	960 Hours

Procedures Assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic).
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic retrograde cholangio pancreatography (ERCP)
6. Liver biopsy
7. Percutaneous catheter drainage (PCD) of Pseudocyst pancreas
8. Abdominal paracentesis
9. Percutaneous aspiration of liver abscess
10. GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test

Procedures Performed

1. History and Physical assessment
2. RT intubation / extubation / aspiration/suction
3. Gastric lavage and gavage
4. Bowel wash
5. Therapeutic Diets
6. Ostomy feeding
7. Stoma care
8. Monitoring vital parameters
9. Plan of inservice education programme for nursing staff and Class-IV employees
10. Counseling

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CLINICAL SPECIALITY - II

OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement - II Year

Hours of Instruction	
Theory:	150 hrs
Practical	950 hrs
Total	1100 hrs

Course Description

This course is designed to assist the student in developing expertise and in-depth understanding in the field of Obstetric and gynecological Nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynecological conditions. It will further enable the students to function as midwifery nurse practitioner/specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.

Objectives

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

1. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women with obstetric and gynaecological conditions
2. Perform physical, psychosocial, cultural & spiritual assessment
3. Demonstrate competence in caring for women with obstetrical and gynaecological conditions
4. Demonstrate competence in caring for high risk newborn.
5. Identify and Manage obstetrical and neonatal emergencies as per protocol.
6. Practice infection control measures
7. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, gynecological and neonatal care.
8. Demonstrate skill in handling various equipments/gadgets used for obstetrical, gynaecological and neonatal care
9. Teach and supervise nurses and allied health workers.
10. Design a layout of speciality units of obstetrics and gynecology
11. Develop standards for obstetrical and gynaecological nursing practice.
12. Counsel women and families
13. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrical and gynaecological nursing
14. Function as independent midwifery nurse practitioner

Contents Outline

Unit	Hours	Content
I	25	Management of problems of women during pregnancy <ul style="list-style-type: none"> □ Risk approach of obstetrical nursing care , concept & goals. □ Screening of high-risk pregnancy, newer modalities of diagnosis. □ Nursing Management of Pregnancies at risk-due to obstetrical complication <ul style="list-style-type: none"> • Pernicious Vomiting. • Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases. • Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta praevia, abruptio placenta. • Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolysis Elevated liver enzyme Low Platelet count (HELLP) • Iso-immune diseases. Rh and ABO incompatibility • Hematological problems in pregnancy. • Hydramnios-oligohydramnios • Prolonged pregnancy- post term, post maturity. • Multiple pregnancies. • Intra uterine infection & pain during pregnancy. • Intra Uterine Growth Retardation(IUGR), Premature Rupture of Membrane(PROM), intra uterine death
II	15	Pregnancies at risk-due to pre-existing health problems <ul style="list-style-type: none"> □ Metabolic conditions. □ Anemia and nutritional deficiencies □ Hepatitis □ Cardio-vascular disease. □ Thyroid diseases. □ Epilepsy. □ Essential hypertension □ Chronic renal failure. □ Tropical diseases. □ Psychiatric disorders □ Infections Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection(RTI);STD; HIV/AIDS, Vaginal infections; Leprosy, Tuberculosis □ Other risk factors: Age- Adolescents, elderly; unwed mothers, sexual abuse, substance use □ Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst
III	15	Abnormal labour, pre-term labour & obstetrical emergencies <ul style="list-style-type: none"> □ Etiology, pathophysiology and nursing management of <ul style="list-style-type: none"> • Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour. • Abnormal lie, presentation, position compound presentation.

		<ul style="list-style-type: none"> • Contracted pelvis-CPD; dystocia. • Obstetrical emergencies Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord. • Augmentation of labour. Medical and surgical induction. • Version • Manual removal of placenta. • Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations • Genital tract injuries-Third degree perineal tear, VVF, RVF □ Complications of third stage of labour: <ul style="list-style-type: none"> • Post partum Hemorrhage. • Retained placenta.
IV	10	<p>post partum complications</p> <ul style="list-style-type: none"> □ Nursing management of <ul style="list-style-type: none"> • Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism • Sub involution of uterus, Breast conditions, Thrombophlebitis • Psychological complications, post partum blues, depression, psychosis
V	25	<p>High Risk Newborn</p> <ul style="list-style-type: none"> □ Concept, goals, assessment, principles. □ Nursing management of <ul style="list-style-type: none"> • Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephelopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Hematological conditions - erythroblastosis fetalis, hemorrhagic disorder in the newborn • Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU

VI	15	HIV/AIDS <ul style="list-style-type: none"> □ HIV positive mother and her baby □ Epidemiology □ Screening □ Parent to child transmission(PTCT) □ Prophylaxis for mother and baby □ Standard safety measures □ Counseling □ Breast feeding issues □ National policies and guidelines □ Issues: Legal,ethical, Psychosocial and rehabilitation <p>Role of nurse</p>
VII	25	Gynecological problems and nursing management <ul style="list-style-type: none"> □ Gynecological assessment □ Gynecological procedures □ Etiology, pathophysiology, diagnosis and nursing management of <ul style="list-style-type: none"> • Menstrual irregularities • Diseases of genital tract • Genital tract infections • Uterine displacement • Genital prolapse • Genital injuries • Uterine malformation • Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy – vaginal and abdominal. • Sexual abuse, rape, trauma , assault
VIII	5	Administration and management of obstetrical and gynaecological unit <ul style="list-style-type: none"> □ Design & layout □ Staffing, □ Equipment, supplies, □ Infection control; Standard safety measures □ Quality Assurance:-Obstetric auditing –records /reports, Norms, policies and protocols □ Practice standards for obstetrical and gynaecological unit
IX	5	Education and training in obstetrical and gynaecological care <ul style="list-style-type: none"> □ Staff orientation, training and development, □ In-service education program, □ Clinical teaching programs.

Total = 960 Hours
1 Week = 30 Hours

S.No.	Deptt./ Unit	No. of Week	Total Hours
1	Antenatal OPD including Infertility clinics/Reproductive medicine, Family welfare and post partum clinic / PTCT	6	180 Hours
2	Antenatal and Postnatal ward	6	180 Hours
3	Labour room	4	120 Hours
4	Neonatal Intensive Care Unit	3	90 Hours
5	Obstetric/Gynae Operation Theatre	3	90 Hours
6	Gynae Ward	4	120 Hours
7	CHC, PHC, SC	6	180 Hours
	Total	32 Weeks	960 Hours

Essential Obstetrical And Gynecological Skills

Procedure Observed

- Assisted Reproductive Technology procedures
- Ultra sonography
- Specific laboratory tests.
- Amniocentesis.
- Cervical & vaginal cytology.
- Fetoscopy.
- Hysteroscopy.
- MRI.
- Surgical diathermy.
- Cryosurgery.

Procedures Assisted

- Operative delivery
- Abnormal deliveries-Forceps application, Ventouse, Breech
- Exchange blood transfusion
- Culdoscopy.
- Cystoscopy
- Tuboscopy
- Laparoscopy.
- Endometrial Biopsy
- Tubal patent test
- Chemotherapy
- Radiation therapy
- Medical Termination of Pregnancy.
- Dilatation and Curettage

Procedures Performed

- History taking.
- Physical Examination-General
- Antenatal assessment. - 20
- Pelvic examination
- Assessment of risk status.
- Assessment of Intra uterine foetal well-being.kick chart and foetal movement chart, Doppler assessment, Non Stress Test, Contraction stress test(Oxytocin challenge test)
- Universal precautions- Disposal of biomedical waste.
- Per Vaginal examination and interpretation (early pregnancy, labour, post partum).
- Utilization of Partograph
- Medical & Surgical induction(Artificial rupture of membranes).
- Vacuum extraction
- Conduct of delivery.
- Prescription and administration of fluids and electrolytes through intravenous route.
- Application of outlet forceps, delivery of breach - Burns Marshall, Loveset manoeuvre
- Repair of tears and Episiotomy suturing.
- Vacuum extraction
- controlled cord traction, Manual removal of placenta, placental examination,
- Manual vacuum aspiration
- Postnatal assessment.- 20
- Management of breast engorgement
- Thrombophlebitis (white leg)
- Postnatal counseling.
- Reposition of inversion of uterus.
- Laboratory tests: Blood- Hb, Sugar, Urine-albumin,sugar
- Breast care, breast exam, and drainage breast abscess.
- Postnatal exercise.
- Assessment -New born assessment; physical and neurological, Apgar score, high-risk newborn, Monitoring neonates; Clinically and With monitors, Capillary refill time, Assessment of jaundice, danger signs
- Anthropometric measurement
- Neonatal resuscitation
- Gastric Lavage
- Care of newborn in multi channel monitor and ventilator.
- Care of newborn in radiant warmer and incubator.
- Kangaroo mother care.
- Assisting mother with exclusive Breast-feeding
- Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition
- Assesment, calculation and administration of fluids and medications:
 - Oral _____
 - I.D. _____
 - I.M. _____
 - I.V.- Securing IV line, infusion pump _____

- Administration of drug per rectum
- Capillary blood sample collection.
- Oxygen therapy.
- Phototherapy.
- Chest physiotherapy.
- counseling – Parental, bereavment, family planning, infertility etc
- Setting of operation theatre.
- Trolley and table set up for Obstetrical & gynaecological operations.
- Pap smear.
- Vaginal smear.
- Insertion of pessaries,
- Insertion of IUD and removal.
- Teaching skills
- communication skills
- Prepare referral slips
- Pre transport stabilization
- Networking with other stake holders

CLINICAL SPECIALTY -II

PEDIATRIC (CHILD HEALTH) NURSING

Placement : II Year

Hours of Instruction
Theory 150 hours
Practical 950 hours
Total : 1100 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing

Objectives

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

1. Apply the nursing process in the care of ill infants to pre adolescents in hospital and community
2. Demonstrate advanced skills/competence in nursing management of children with medical and surgical problems
3. Recognize and manage emergencies in children
4. Provide nursing care to critically ill children
5. Utilize the recent technology and various treatment modalities in the management of high risk children
6. Prepare a design for layout and describe standards for management of pediatric units/hospitals
7. Identify areas of research in the field of pediatric nursing

Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> □ Current principles, practices and trends in Pediatric Nursing □ Role of pediatric nurse in various settings -Expanded and extended
II	35	<ul style="list-style-type: none"> □ Pathophysiology, assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders <ul style="list-style-type: none"> • Child with respiratory disorders: <ul style="list-style-type: none"> Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis • Child with gastro-intestinal disorders: <ul style="list-style-type: none"> Diarrheal diseases, gastro-esophageal reflux. Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation. Malabsorption syndrome, Malnutrition • Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation • Child with cardio-vascular disorders: <ul style="list-style-type: none"> Acquired: Rheumatic fever, Rheumatic heart disease, Congenital: Cyanotic and acyanotic • Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia • Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome • Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, neuroblastomas, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors • Child with blood disorders: Anemias, thalassemias, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation • Child with skin disorders • Common Eye and ENT disorders • Common Communicable diseases
III	35	<ul style="list-style-type: none"> □ Assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders <ul style="list-style-type: none"> • Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs' disease /megacolon, malrotation, intestinal obstruction, duodenal atresia,

		<p>gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia</p> <ul style="list-style-type: none"> • Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus • Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder • Anomalies of the skeletal system • Eye and ENT disorders • Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma Head injury, abdominal injury, poisoning, foreign body obstruction, burns & Bites • Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuroblastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma • Management of stomas, catheters and tubes • Management of wounds and drainages
IV	10	<p>Intensive care for pediatric clients</p> <ul style="list-style-type: none"> □ Resuscitation, stabilization & monitoring of pediatric patients □ Anatomical & physiological basis of critical illness in infancy and childhood □ Care of child requiring long-term ventilation □ Nutritional needs of critically ill child □ Legal and ethical issues in pediatric intensive care □ Intensive care procedures, equipment and techniques □ Documentation
V	20	<p>High Risk Newborn</p> <ul style="list-style-type: none"> □ Concept, goals, assessment, principles. □ Nursing management of <ul style="list-style-type: none"> • Post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephelopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements.

		<ul style="list-style-type: none"> • Hematological conditions - erythroblastosis fetalis, hemorrhagic disorder in the newborn • Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU
VI	10	Developmental disturbances and implications for nursing <ul style="list-style-type: none"> □ Adjustment reaction to school, □ Learning disabilities □ Habit disorders, speech disorders, □ Conduct disorders, □ Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia.
VII	10	Challenged child and implications for nursing <ul style="list-style-type: none"> □ Physically challenged, causes, features, early detection & management □ Cerebral palsied child, □ Mentally challenged child. □ Training & rehabilitation of challenged children
VIII	5	Crisis and nursing intervention <ul style="list-style-type: none"> □ The hospitalized child, □ Terminal illness & death during childhood □ Nursing intervention-counseling
IX	5	Drugs used in Pediatrics <ul style="list-style-type: none"> □ Criteria for dose calculation □ Administration of drugs, oxygen and blood □ Drug interactions □ Adverse effects and their management
X	10	Administration and management of pediatric care unit <ul style="list-style-type: none"> □ Design & layout □ Staffing, □ Equipment, supplies, □ Norms, policies and protocols □ Practice standards for pediatric care unit □ Documentation
XI	5	Education and training in Pediatric care <ul style="list-style-type: none"> □ Staff orientation, training and development, □ In-service education program, □ Clinical teaching programs.

Practical

Total = 960 Hours
1 Week = 30 Hours

- Field visits:

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Pediatric medicine ICU	4	120 Hours
2	Pediatric surgical ICU	4	120 Hours
3	NICU	4	120 Hours
4	Pediatric OT	2	60 Hours
5	Pediatric medicine ward	6	180 Hours
6	Pediatric surgery ward	6	180 Hours
7	Emergency/Casualty	4	120 Hours
8	Field visits*	2	60 Hours
	Total	32	960 Hours

*Child care center, Anganwadi, play school, Special schools for challenged children, Juvenile court, UNICEF, Orphanage, Creche, SOS village

Essential

I. Procedures Observed:

- Echo cardiogram
- Ultrasound head
- ROP screening (Retinopathy of prematurity)
- Any other

II. Procedures Assisted

- Advanced neonatal life support
- Lumbar Puncture
- Arterial Blood Gas
- ECG Recording
- Umbilical catheterization – arterial and venous
- Arterial B P monitoring
- Blood transfusion- exchange transfusion full and partial
- IV cannulation & therapy
- Arterial catheterization
- Chest tube insertion
- Endotracheal intubation
- Ventilation
- Insertion of long line
- Assist in surgery