REGULATIONS AND CURRICULUM GOVERNING

M.Sc. NURSING PROGRAM

(Curriculum Implementation and Revision Year: 2009)

Name of the Constituent Unit: Yenepoya Nursing College

YENEPOYA
(DEEMED TO BE UNIVERSITY)

Deralakatte, Mangalore, Karnataka.

YEAR OF ESTABLISHMENT : 2008
YEAR OF ESTABLISHMENT YENEPOYA UNIVERSITY:2009
YEAR OF INTRODUCTION : 2019

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Yenepoya (Deemed to be University)

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VISION AND MISSION

Vision

To provide access to quality higher education, ensuring equity, to create a vibrant knowledge capital and to create inspiring leaders of tomorrow who can take this country to the forefront of the developed nations.

Mission

- To achieve academic excellence and global competencies among students.
- To create an environment for the generation of new knowledge through meaningful research, adopting latest methods of pedagogy and incorporating modern principles of academics integrated with highest ethical standards.
- To extend the knowledge acquired and new knowledge generated for the development of the community.

PREFACE

Yenepoya University, the first Deemed University (recognized under Section 3(A) of the UGC Act 1956) in Dakshina Kannada district was established in 2009. The university Consists of four constituent colleges under its ambit namely Yenepoya Medical College, Yenepoya Dental College, Yenepoya Nursing College and Yenepoya Physiotherapy College. The institutions ensure high standards of academic performance and are rendering quality health care services.

The aims of nursing profession is to render quality healthcare to all needy people and nursing education aims at creating a new generation of nurses who are competent to meet the emerging nursing challenges in the hospital environment and community environment through quality education. There are a number of educational paths to become a professional nurse, which vary greatly worldwide, but all involve extensive study of nursing theory and practice as well as training in clinical skills. The minimum standard requirements for entry in to nursing practice is determined by the nursing council of India.

The Indian Nursing Council is a National regulatory body that maintains uniform standards in Nursing Education and prescribes the syllabus and regulations for various nursing programs in India. Considering the recommendations of Indian Nursing Council, the syllabus for M.Sc Nursing have been revised at par with the current developments and trends in the nursing profession after proper discussions at the levels of Board of Studies, Faculty and Academic Council.

I hope the revamping of syllabus will help the students to update and expand their knowledge to a great extent. The academic transaction is now going to be shifted from conventional methods to e-learning from 2015 onwards. I congratulate and appreciate the efforts put by the faculty of nursing in the revision of curriculum.

Dr. M. Vijaya Kumar
Vice Chancellor
Yenepoya University

PHILOSOPHY : M.SC NURSING COURSE

(Adapted from Indian Nursing Council)

National Health Policy(NHP) 2002 emphasizes the need to prepare nurses to function in super-specialty 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 lifelong learning which fosters improvement of quality care.

AIMS

(Adapted from Indian Nursing Council)

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,

- utilize/apply the concepts, theories and principles of nursing science
- demonstrate advance competence in practice of nursing
- practice as a nurse specialist.
- demonstrate leadership qualities and function effectively as nurse educator and manager.
- demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.
- demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
- establish collaborative relationship with members of other disciplines
- demonstrate interest in continued learning for personal and professional advancement.

YENEPOYA UNIVERSITY

Office of the Registrar
University Road,
Deralakatte
Mangalore - 575018
Ph: 0824-2204667/68/69/71
Fax: 0824-2203943

NOTIFICATION – 2-ACM/2009 dtd.10/05/2009

Sub: Curriculum for M.Sc. Nursing course

Ref: Resolution of the Academic Council at its 2nd meeting held on 05.05.2009 vide Agenda -4

******

The curriculum for M.Sc. Nursing course submitted by the Board of Studies, Yenepoya Nursing College has been approved at the 2nd meeting of Academic Council held on 05.05.2009 and subsequently at the meeting of Board of Management.

This notification is issued for implementation with effect from the academic year 2009-2010.

REGISTRAR
Registrar
Yenepoya University
University Road, Deralakatte
Mangalore - 575 018

To:

The Principal – Yenepoya Nursing College

Copy to:

1. Controller of Examinations
2. File copy

YENEPOYA

YENEPOYA
UNIVERSITY

Recognised under Sec. 3(A) of the UGC Act 1956 as per notification number F.9-11/2007.U.3(A) dated 27-02-2008

No.YU/REG/ACA/AC-9/Agenda (3-A-i) /2012 21.04.2012

NOTIFICATION

Sub: Amendment to the Regulation of M.Sc. (N) Programme
Ref: Resolution of the Academic Council at its 9th meeting on 19.04.2012

*****

The amendment to the Regulations governing M.Sc. (N) Programme as proposed by the Faculty of Nursing is hereby approved by the Academic Council and Board of Management at their meeting held on 19.04.2012 and is hereby notified for implementation.

REGISTRAR

To:

The Principal I/C, YNC

Copies to:

1. Controller of Examinations
2. Coordinator, NAAC
3. Academic Section

University Road, Deralakatte, Mangalore - 575 018
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YENEPOYA

YENEPOYA
UNIVERSITY

Recognized under Sec 3(A) of the UGC Act 1956 as per Notification No. F.9-11/2007-U.3 (A) dated 27th February 2008

"Accredited by NAAC with 'A' Grade"

Ref: No. YU/REG/ACA/28-ACM/2017 06.06.2017

NOTIFICATION

Sub: Amendment to existing regulations/syllabus – M.Sc. (N) Programme
Ref: Agenda – 13 of the 28th meeting of the Academic Council held on 27.05.2017

****

The Academic Council at its 28th meeting held on 27.05.2017 vide Agenda -13 has approved the following amendments to M.Sc. (N) regulations/syllabus based on the recommendation of the Faculty of Nursing at its meeting on 20.05.2017 for implementation prospectively i.e., from the admission batch of 2017-18.

Subject	Existing	Now Amended
Eligibility criteria	a. The candidate should be a Registered Nurse and Registered midwife of equivalent with any State Nursing Registration Council. b. 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.	a. The candidate should be a Registered Nurse and Registered midwife **or** equivalent with any state Nursing Registration Council. b. 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. **5% relaxation of marks for SC/ST candidates may be given.**
Clinical experience	In order to provide hands on skills as part of the curriculum the students will have to undergo the clinical experience in the multispecialty medical college hospital as well as in rural health centers attached to Yenepoya University. In addition, the students will undergo the clinical experience in chosen specialty area in selected hospitals.	In order to provide hands on skills as part of the curriculum the students will have to undergo the clinical experience in the multispecialty medical college hospital as well as in rural health centers attached to Yenepoya University. In addition, the students will undergo the clinical experience in chosen specialty area in selected hospitals. **Students will undergo two weeks of educational visits. The students have to maintain log book for each activity during the course of study.**
Marks qualifying for pass	a. A candidate has to pass in theory and practical exam separately in each subject. b. Minimum pass marks shall be 50% in each of the Theory and practical papers separately. c. The theory component consists of marks obtained in University written paper(s) and internal assessment (IA). For a pass in theory, a candidate shall secure not less than 50% marks in written examination and IA separately. For a pass in practical examination, a	Addition to this to add **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**

YENEPOYA

	candidate, shall secure not less than 50% marks in university practical examination and IA separately. d. A candidate not securing 50% marks in theory or practical examination in a subject shall be declared to have failed in that subject and is required to appear for both theory and practical again in the subsequent examination in that subject. e. Maximum of 5 grace marks for each subject is not permitted, and grace marks should not exceed 5 marks in total marks for one academic year in theory paper only.	
Dissertation	In partial fulfillment of the course, the post graduate student is required to submit the dissertation to the university. The dissertation to be undertaken with the expert guidance of the nursing faculty (guide/co- guide) in the same clinical specialty holding Ph.D/M.Phil/M.Sc Nursing with a minimum of 3 years experience in teaching in the post graduate programme in nursing. Administrative approval and ethical clearance to be obtained before undertaking the study. Tentative schedule for dissertation	In partial fulfillment of the course, the post graduate student is required to submit the dissertation to the university. The dissertation to be undertaken with the expert guidance of the nursing faculty (guide/co guide) in the same clinical specialty holding Ph.D/M.Phil/M.Sc Nursing with a minimum of 3 years experience in teaching in the post graduate programme in nursing. Administrative approval and ethical clearance to be obtained before undertaking the study. **Evaluation of the dissertation should be done by the examiner prior to viva - voce . The viva - voce should be conducted minimum 30 minutes per student.** Tentative schedule for dissertation

S.No	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9th month of 1st academic year
2.	Final Submission of dissertation	End of 8th month of 2nd academic year
3	Submission of dissertation with fine	End of 9th month of 2nd academic year

Sl. No	Activities	Scheduled Time
1.	No changes	
2.	**Final Submission of dissertation**	**End of 9th month of 2nd academic year**
3	**Submission of dissertation with fine**	**End of 10th month of 2nd academic year**

(Dr. G. Shreekumar Menon)
REGISTRAR
mj

Copy to:
The Principal – YNC/CoE/Academic Section

भारतीय उपचर्या परिषद्
आठवाँ तल, एनबीसीसी सेन्टर, प्लॉट नं. 2, कम्यूनिटी सेन्टर, ओखला फेज - 1, नई दिल्ली - 110020

INDIAN NURSING COUNCIL
8th Floor, NBCC Centre, Plot No. 2, Community Centre
Okhla Phase - I, New Delhi - 110020

स्वास्थ्य एवं परिवार कल्याण मंत्रालय के तहत सांविधिक निकाय
Statutory Body under the Ministry of Health & Family Welfare

F.No. 1-5/2018-INC

Dated :- 28 FEB 2019

Notification

Sub:- Resolutions approved by Governing Body in the Meeting held on 2.12.2018- Colour Blind Candidates for Nursing Courses reg.

The Council has resolved in its meeting held on 02-12-2018 that the Colour Blind candidates should may be considered for admission to Nursing Courses subject to the condition that Colour corrective contact lens and spectacles are worn by such candidates.

(Rathish Nair)
Secretary

Copy forwarded for information:-

1. The Registrar All Universities
2. The Registrar, State Nursing Council
3. The Principal, School/College of Nursing

F.No.1-5 / 2018 - INC **Dated:**

NOTIFICATION 10 APR 2019

SUB: Resolution Approved By General Body in its Meeting Held on 25th & 26th November, 2017 – Admission Criteria for Disabled candidates under Nursing Programmes- reg

The Council has resolved in its meeting held on 25th & 26th November, 2017 that:

"For Disabled Candidates: 5% Disability reservation to be considered with a disability of locomotor to the tune of 40% to 50% of the lower extremity."

Further, it has also been resolved that a committee to be formed consisting of medical officers authorized by medical board of State Government and a Nursing Expert in the panel which may decide whether the candidates have the disability of locomotor of 40% to 50%.

(Rathish Nair)
Secretary

Copy Forwarded to:

1. Registrar, All Universities offering and examining Nursing Programmes.
2. Registrar, State Nursing Councils
3. Principal, School / College of Nursing.
4. INC Website

REGULATIONS

1. Title of the course

The course is titled as Master of Science in Nursing (with area of specialization) M Sc. (N)

2. Eligibility criteria

a. The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.

b. 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. 5% relaxation of marks for SC/ST candidates may be given

c. The candidate should have undergone B.Sc Nursing / Post Basic B.Sc Nursing. B.Sc Hons. Nursing in an institution which is recognized by Indian Nursing Council.

d. Minimum one year of work experience after Basic B.Sc. Nursing or prior or after Post Basic B.Sc. Nursing.

e. Simultaneous attendance in multiple courses is not permitted

f. Student should be medically fit male or female

3. Entrance/Selection test

Selection of candidates is based on marks scored in the entrance examination conducted by the university

4. Annual intake

Students are admitted once a year. The annual intake for the course is twenty five (25), Five (5) in each specialty as sanctioned by Indian Nursing Council (INC).

5. Duration

Duration of the course is two years

6. Commencement of the course

The college academic year commences in the month of August.

7. Medium of instruction

English is the medium of instruction for all the subjects of study and for examinations of the Master of Science in Nursing.

8. The syllabus

The syllabus for the course is designed based on the requirements prescribed by Indian Nursing Council.

Syllabus enrichment is done based on the recommendations of Board of studies from time to time and subjecte to the approval of the Academic Council of the University.

9. Attendance

A candidate must have a minimum 80% attendance in theory and practical, in each subject, for appearing for examinations, irrespective of the kind of absence she/he may have had. There shall be no condonation for any leave for any reason, including pregnancy, child birth, or medical conditions of any nature. For the degree to be awarded, 100% attendance in each practical/clinics is mandatory.

10. Clinical experience

In order to provide hands on skills as part of the curriculum the students will have to undergo the clinical experience in the multispecialty medical college hospital as well as in rural health centers attached to Yenepoya University. In addition, the students will undergo the clinical experience in chosen specialty area in selected hospitals. The students will undergo two weeks of educational visits. The students have to maintain log book for each activity during the course of study.

11. Conduct of university examinations

The university examinations will be conducted at the end of each academic year

12. Internal Assessment Marks

a. Internal Assessment Marks (IA) for theory is calculated based on the sessional examination, model examination, and Continuous Comprehensive Assessment (CCA) consisting of unit tests, assignments, presentations, project work and group work etc.
b. Internal Assessment Marks (IA) for practical is calculated based on the model practical examination and Continuous Comprehensive Assessment (CCA) consisting of clinical presentations and patient care assignments.
c. A candidate shall secure at least 50% of marks in internal assessments to be eligible to appear in the University examination.

13. Marks qualifying for pass

a. A candidate has to pass in theory and practical exam separately in each subject.
b. Minimum pass marks shall be 50% in each of the theory and practical papers separately.
c. The theory component consists of marks obtained in University written paper(s) and internal assessment (IA). For a pass in theory, a candidate shall secure not less than 50% marks in written examination and IA separately. For a pass in practical examination, a candidate, shall secure not less than 50% marks in university practical examination and IA separately.
d. A candidate not securing 50% marks in theory or practical examination in a subject shall be declared to have failed in that subject and is required to appear for both theory and practical again in the subsequent examination in that subject.
e. Maximum of 5 grace marks for each subject is not permitted, and grace marks should not exceed 5 marks in total marks for one academic year in theory paper only.
f. 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

14. Dissertation

In partial fulfillment of the course, the post graduate student is required to submit the dissertation to the university. The dissertation to be undertaken with the expert guidance of the nursing faculty (guide/co-guide) in the same clinical specialty holding Ph.D/M.Phil/M.sc Nursing with a minimum of 3 years experience in teaching in the post graduate programme in nursing. Administrative approval and ethical clearance to be obtained before undertaking the study. Evaluation of the dissertation should be done by the examiner prior to viva voce . The viva voce should be conducted minimum 30 minutes per student.

Tentative Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9th month of 1st academic year
2.	Final Submission of dissertation	End of 9th month of 2nd academic Year
3.	Submission of dissertation with fine	End of 10th month of 2nd academic Year

Note : Administrative approval, institute scientific review board approval and ethical clearance from ethics committee, Yenepoya University should be obtained. Evaluation of the dissertation is done by the appointed examiners by the university prior to the viva-voce as part of the university examination.

15. Practical examination

a. One internal and one external examiner appointed by the university will jointly conduct the practical examination for each student.

b. Practical examinations for clinical specialty (4 hours) are held in the respective clinical areas. External examiner shall be a Nursing faculty / nursing expert in the same clinical specialty 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.

c. As part of practical examination for the nursing education subject, the student shall conduct the micro teaching. An examiner should be a lecturer or above in a college of nursing with M.Sc. (N) in the concerned subject with minimum of 3 years of teaching experience.

d. As part of the practical examination for dissertation, the student shall attend the viva voce (minimum 30 minutes per student). The internal examiner shall be the guide and the external examiner shall be the examiner appointed by the University for Clinical Specialty.

e. Maximum number of candidates for practical examination may not exceed 10 per day.

16. Carryover of failed subjects

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. If the candidate fails in either practical or theory paper he/she has to re- appear for both the papers (theory and practical). The maximum period to complete the course successfully should not exceed 4 years.

17. Revaluation / retotaling of answer papers

Revaluation of answer papers is not permitted. Only re-totaling of theory answer papers is allowed in the failed subjects. Application for the same should be through the institution, within 10 days from the date of announcement of results.

19. Vacation

The students shall avail the declared vacation in the academic year as per the course plan.

20. Dress code

The students of the course have to follow the dress code as prescribed by the institution for regular classes as well as during the clinical posting.

21. Health services

On admission, students will undergo a routine medical examination, and thereafter, annually. Free medical care during illness and/provision of health insurance is available. A complete health record is kept in respect of each individual student. The question of continuing the training of a student with long term chronic illness will be decided by the college. Vaccination against Hepatitis B, Tetanus and other communicable disease is provided, as deemed necessary.

22. Curbing the menace of ragging in the campus

Ragging has been declared as a ***criminal offence*** by the Supreme Court of India. Hence, any act of such kind within the campus is punishable by the law. On admission, every student and his/her parents have to file an **affidavit** avowing not to indulge in ragging.

23. Hostel facilities

Separate hostels are provided for men and women within the campus. All the rooms are well furnished and well equipped. The hostels have facilities to cater both vegetarian & non-vegetarian students. The hostels are provided with basic amenities, mess, TV room, recreation room, basketball & volleyball courts, and visitors area. Each hostel is managed by a Chief Warden and two Assistant Wardens.

COURSE OF INSTRUCTIONS

First Year

Sl. No.	Subject	Theory (In hrs Class and Lab)	Practical (In hrs Clinical)
1.	Nursing Education	**150**	**150**
2.	Advanced Nursing Practice	**150**	**200**
3.	Section A : Nursing Research Section B : Biostatistics	**100** **50**	**50** **50**
4.	**Clinical Specialty - I**	**150**	**660**
a.	Medical Surgical Nursing		
b.	Obstetric & Gynaecological Nursing		
c.	Child Health Nursing		
d.	Mental Health Nursing		
e.	Community Health Nursing		

Second Year

Sl. No.	Subject	Theory (In hrs Class and Lab)	Practical (In hrs Clinical)
1.	Nursing Management	**150**	**150**
2.	Dissertation & Viva	**-**	**300**
3.	**Clinical specialty - II**	**150**	**960**
a.	Medical Surgical Nursing		
b.	Obstetric & Gynaecological Nursing		
c.	Child Health Nursing		
d.	Mental Health Nursing		
e.	Community Health Nursing		

SCHEME OF EXAMINATION

First Year

No.	Subject	Hours	Subject Code	Theory		Practical	
				Internal	External	Internal	External
1.	Nursing Education	3	NP02NS-1C1	25	75	50	50
2.	Advanced Nursing Practice	3	NP02NS-1C2	25	75		
3.	Section A : Nursing Research		NP02NS-1C3	15	50		
	Section B : Biostatistics	3	NP02NS-1C4	10	25		
4.	**Clinical Specialty - I**	3		25	75	100	100
a.	Mental Health Nursing		NP02CS-1C1				
b.	Child Health Nursing		NP02CS-1C2				
c.	Community Health Nursing		NP02CS-1C3				
d.	Medical Surgical Nursing		NP02CS-1C4				
e.	Obstetric & Gynaecological Nursing		NP02CS-1C5				

Second Year

No.	Subject	Hours	Subject Code	Theory		Practical	
				Internal	External	Internal	External
1.	Nursing Management	3	NP02NS-2C1	25	75		
2.	Dissertation & Viva Voce	3				100	100
3.	**Clinical specialty - II**	3		25	75	100	100
a	Mental Health Nursing		NP02CS-2C1				
b.	Child Health Nursing		NP02CS-2C2				
c.	Community Health Nursing		NP02CS-2C3				
d.	Medical Surgical Nursing						
	Critical care nursing		NP02CS-2E1				
	Orthopedic Nursing		NP02CS-2E2				
	Cardio Vascular and Thoracic Nursing		NP02CS-2E3				
	NeuroSciences Nursing		NP02CS-2E4				
	Nephro – Urology Nursing		NP02CS-2E5				
	Oncology Nursing		NP02CS-2E6				
	Gastro Enterology Nursing		NP02CS-2E7				
e.	Obstetric & Gynaecological Nursing		NP02CS-2C5				

QUESTION PAPER PATTERN

First Year

NURSING EDUCATION

Type of Question	Total No. of Questions	Marks
Long essay	4	4X15 = 60 marks
Short essay	3 (out of 5)	3X5= 15 marks
TOTAL		**75 marks**

ADVANCED NURSING PRACTICE

Type of Question	Total No. of Questions	Marks
Long essay	4	4X15 = 60 marks
Short essay	3 (out of 5)	3X5= 15 marks
TOTAL		**75 marks**

SECTION - A : NURSING RESEARCH

Type of Question	Total No. of Questions	Marks
Long essay	2	2X15 = 30 marks
Short essay	4 (out of 5)	4X5= 20 marks
TOTAL		**50 marks**

SECTION - B : BIOSTATISTICS

Type of Question	Total No. of Questions	Marks
Long essay	1	1X15 = 15 marks
Short essay	2 (out of 3)	2X5= 10 marks
TOTAL		**25 marks**

CLINICAL SPECIALTY-I

Type of Question	Total No. of Questions	Marks
Long essay	4	4X15 = 60 marks
Short essay	3 (out of 5)	3X5= 15 marks
TOTAL		**75 marks**

Second Year

NURSING MANAGEMENT

Type of Question	Total No. of Questions	Marks
Long essay	4	4X15 = 60 marks
Short essay	3 (out of 5)	3X5= 15 marks
TOTAL		**75 marks**

CLINICAL SPECIALTY-II

Type of Question	Total No. of Questions	Marks
Long essay	4	4X15 = 60 marks
Short essay	3 (out of 5)	3X5= 15 marks
TOTAL		**75 marks**

NURSING EDUCATION

Placement : I Year

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

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, the 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, 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

Units	Hours		Course Content
	Theory	Practical	
I	10		**Introduction** • Education: Definition, aims, concepts, philosophies & their education implications • Impact of social, economical, political & technological changes on education : ▪ 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** • 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), concept maping, workshop, project, role-play (socio- drama), clinical teaching methods, programmed instruction, self directed learning(SDL), microteaching, computer assisted instruction(CAI), computer assisted learning (CAL)
III	10	10	**Instructional media and methods** • 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 – projected and non-projected aids, multimedia, video-tele conferencing and E-learning etc
IV	10		**Measurement and evaluation** • Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement

Units	Hours		Course Content
	Theory	Practical	
			• Principles of assessment, formative and summative assessment-internal assessment, external examination, advantages and disadvantages • Criterion and norm referenced evaluation
V	**12**	**15**	**Standardized and non-standardized tests** • Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests • 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	**5**	**5**	**Administration, scoring and reporting** • Administering a test; scoring, grading versus marks ▪ Objective tests, scoring essay test, methods of scoring ▪ Item analysis
VII	**8**	**10**	**Standardized tools** • Tests of intelligence,aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities
VIII	**5**	**6**	**Nursing educational programs** • 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 PhD) in nursing, post basic diploma programs, nurse practitioner programs
IX	**12**	**25**	**Continuing education in nursing** • 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 • E - learning

Units	Hours		Course Content
	Theory	Practical	
X	10	15	**Curriculum development** • 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	6	**Teacher preparation** • 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.
XII	10	8	**Guidance and counseling** • 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** • 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

Units	Hours		Course Content
	Theory	Practical	
XIV	10	5	**Management of nursing educational institutions** • Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel
XV	5	5	**Standards & Accreditation** • 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 • Accreditation & ranking of Higher education institutions in India-NAAC,NIRF

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 trip, 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

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ADVANCED NURSING PRACTICE

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 200
Total : 350

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

Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		**Nursing as a profession** • 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 nurses, legal considerations • Role of regulatory bodies • Profession 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 • Futuristic Nursing : Quality assurance in Nursing

Units	Hours		Course Content
	Theory	Practical	
II	**05**		**Health care delivery** • 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** • 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**	**40**	**Epidemiology** • 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
V	**20**	**40**	**Bio-Psycho social pathology** • 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

Units	Hours		Course Content
	Theory	Practical	
			• 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**	**40**	**Philosophy and theories of nursing** • Values, Conceptual models, approach • 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 Parsce, Orlando, Wiedenbach maternal role attainment theory, Humanistic theories, Jean Waston, Patricia Benner, The modeling and role modeling theory, Leningers, Health Belief model, Health promotion model,communication, Rosemarie Rizo Parse and management etc and their applications • Health belief models, communication and management, etc • Concept of Self health • Evidence based practice model
VII	**10**	**80**	**Nursing process approach** • Health assessment-illness status ofpatients/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.
VIII	**30**	**36**	**Psychological aspects and Human relations** • 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
IX	**10**	**40**	**Nursing practice** • Framework, scope and trends • Alternative modalities of care, alternative systems of health

Units	Hours		Course Content
	Theory	Practical	
			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
X	**25**	**24**	**Computer applications for patient care delivery system and nursing practice** • 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, Endotrcheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritonial dialysis, LP, BT Pleural and abdominal parecentasis,OT techniques, Health assessment, Triage, Pulse oxymetry

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NURSING RESEARCH AND BIOSTATISTICS

Placement : I Year

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

Part-A : Nursing Research

Theory : 100
Practical : 50
Total : 150

Course Description

This 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.

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

Units	Hours		Course Content
	Theory	Practical	
I	10		**Introduction** • Basic research terminologies • Historical Evolution of research in nursing • Methods acquiring knowledge ▪ problem solving and scientific method • Research definition, characteristics, purposes, kinds /types of research • Scope of nursing research ▪ areas, problems, characteristics in nursing, health and social research • Concept of evidence based practice • Ethics in research • Overview of research process

Units	Hours		Course Content
	Theory	Practical	
II	5	5	**Review of Literature** • Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature
III	10	5	**Research problem** • Identification of research problem • Formulation of problem statement and research objectives • Definition - conceptual / operational • Assumptions and delimitations • Identification of variables • Hypothesis ▪ Definition ▪ Formulation and types
IV	12		**Research approach & designs** • Types of research approaches • Types of research designs ▪ Quantitative research designs: experimental and non experimental ▪ Qualitative research designs: ▪ Phenomenology, Grounded theory, Ethnography and case study. • Mixed research designs
V	4	7	**Developing & presenting a research proposal**
VI	5	5	**Developing theoretical/conceptual framework** • Theories ▪ Nature ▪ Characteristics ▪ Purpose and uses ▪ Using, testing and developing conceptual framework ▪ Models and theories
VII	6		**Sampling** • Population and sample • Factors influencing sampling • Sampling techniques • Sample size • Probability and sampling error • Problems of sampling
VIII	20	10	**Tools and methods of data collection** • Concepts of data collection • Data sources, methods/techniques quantitative and qualitative

Units	Hours		Course Content
	Theory	Practical	
			• Tools for data collection ▪ Types ▪ Characteristics and their development • Validity and reliability of tools • Procedure for data collection
IX	**5**		**Implementing research plan** • Pilot Study • Review research plan (design) • Planning for data collection • Administration of tool /interventions • Collection of data
X	**10**	**10**	**Analysis and interpretation of data** • 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
XI	**10**		**Reporting and utilizing research findings** • 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 ▪ Purposes &Style
XII	**3**	**8**	**Critical analysis of research reports and articles**

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

PART - B : BIOSTATISTICS

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

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.

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

Units	Hours		Course Content
	Theory	Practical	
I	8	4	**Introduction** • Definition, nature and scope of statistics • Role of statistics in Nursing/health research • Meaning of data, data types, scales of measurement • Population and sample, parameter and statistic • Organization of data–scrutiny and preprocessing • Presentation of data–tables, diagrams/charts and graphs • Frequency table–histogram, frequency curves • Use of Excel and SPSS for data organization &presentation
II	4	4	**Measures of central tendency** • Concept of central tendency, measures – mean, median and mode • Partition values – quartiles, percentiles, computation and interpretation of the measures
III	5	7	**Measures of variability (dispersion)** • Concept of dispersion, measures – range, quartile deviation, interquartile range, mean deviation about median, variance, standard deviation, standard error, Cooefficient of variation • Computation and interpretation of the different measures • Box plot, Skewness, Kurtosis and related measures • Using of Excel and SPSS for computing summary statistics

Units	Hours		Course Content
	Theory	Practical	
IV	3	3	**Probability** • Basic concepts of probability • Sampling – basic concepts, probability sampling v/s non probability sampling, simple, stratified and systematic sampling methods • sample size determination infinite population(survey studies) • Normal distribution – properties and application
V	7	10	**Measures of relationship** • Correlation and regression scatter plot, Pearson's Product Moment Correlation, Spearman's rank correlation • Regression model – simple linear regression, fitting and prediction • Use of Excel and SPSS
VI	9	10	**Inferential statistics** • Concept of hypothesis, null and alternative hypothesis, type I and type II errors, p – value, statistical significance • **Parameter tests**: z test, t test – paired and independent, F- test for testing equality of variances • **Nonparametric tests**: sign test, median test, Wilcoxon signed rank test, Mann – Whitney test, Chi square test • One way analysis of variance(ANOVA),Sample size determining • Use of Excel and SPSS
VII	5	3	**Design of experiments** • Basic concepts, Completely Randomized Design (CRD), Randomized Block Design (RBD), Latin Square Design (LSD)- applications
VIII	5	6	**Use of statistical methods in psychology & education** • Scaling – Z score, Z scaling • Standard Score and T score • **Reliability of test scores**: test retest method, parallel forms, split half method • Validation of research tools, Kappa statistics
IX	4	3	**Population Statistics** • Rates, Ratios and trends • **Measurement of fertility:** Crude Birth Rate, Standardized Birth Rate, fertility, fecundity • **Measuring mortality:** Death Rate, Age Specific Death Rate (ASDR), Infant Mortality Rate (IMR)

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

Methods of Evaluation

- Test, Classroom, statistical exercises.

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YENEPOYA

CLINICAL SPECIALITY – I
MEDICAL SURGICAL NURSING

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 660
Total : 810

Course Description

This course is common for the students undergoing clinical specialty-II in Neuro Science Nursing/ Cardiovascular & Thoracic Nursing/Critical Care Nursing/Oncology Nursing/Orthopedic 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 specialty
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
11. appreciate the role of alternative systems of Medicine in care of patients
12. incorporate evidence based Nursing practice and identifies the areas of research in the field of Medical – Surgical Nursing
13. recognize the role of Nurse practitioner as a member of the Medica Surgical health team
14. teach Medical Surgical Nursing to undergraduate nursing students & in service nurses

Course Content

Units	Hours	Content
I	5	**Introduction** • 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

Units	Hours	Course Content
		• National goals • Five year plans • National health programs related to adult health
II	**20**	**Health assessment of patients** • History taking • Physical examination of various systems • Nutritional assessment • Related investigations and diagnostic assessment
III	**5**	**Care in hospital settings** • 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** • Review of anatomy and physiology • Common disorders-etiology, Pathophysiology, 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
V	**10**	**Management of patients with disorders of nervous system** • Review of anatomy and physiology • Common disorders-etiology, pathophysiology, 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

Units	Hours	Course Content
VI	10	**Management of patients with disorders of respiratory system** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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 geneito urinary system** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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

Units	Hours	Course Content
X	10	**Management of patients with disorders of endocrine system** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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 integumentory system** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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

Units	Hours	Course Content
XIV	8	**Management of patients with disorders of reproductive system** • Review of anatomy and physiology • Common Disorders-etiology, pathophysiology, 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
XV	8	**Geriatric nursing** • Nursing Assessment-History and physical assessment • Ageing • Demography; Myths and realities • Concepts and theories of ageing • Cognitive aspects of ageing • Normal biological ageing • Age related body systems changes • Psychosocial aspects of aging • Medications and elderly • Stress & coping in older adults • Common health problems & nursing management • Psychosocial and Sexual • Abuse of elderly • Role of nurse for care of elderly: ambulation, nutritional Communicational, psychosocial and spiritual • Role of nurse for caregivers of elderly • Role of family and formal and non formal caregivers • Use of aids and prosthesis (hearing aids, dentures • Legal & Ethical Issues • Provisions and Programmes for elderly, privileges • Community programs and health services • Home and institutional care • Issues, problems & trends
XVI	8	**Management of patients with communicable and sexually transmitted diseases** • Review of immune system • Common disorders of immune system – HIV/AIDS • Review of infectious disease process • Communicable diseases-etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment-History taking, physical examination investigation and diagnostic assessment

Units	Hours	Course Content
		• Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow-up
XVII	**8**	**Emergency, trauma and multi-system organ failure** • DIC (disseminated intravascular coagulation) • Trauma, burns, poisoning • Etiology, pathophysiology, 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

Practical

Total = 660 Hours
1 Week = 30 Hours

S. No.	Dept/Unit	No. of Week	Total Hours
1	General Medical Ward	4	120
2	General Surgical Ward	4	120
3	ICUs	4	120
4	Oncology	2	60
5	Ortho	2	60
6	Cardio	2	60
7	Emergency Department	2	60
8	Neuro	2	60
	Total	**22**	**660**

Student Activities

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

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CLINICAL SPECIALTY – I
OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 660
Total : 810

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 specialty
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

Units	Hours	Course Content
I	10	**Introduction** • 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

Units	Hours	Course Content
		• 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** • Review of anatomy and physiology of human reproductive system ▪ Male ▪ Female • Hormonal cycles • Embryology • Genetics, teratology and counseling • Clinical implications
III	**25**	**Pregnancy** • Maternal adaptation ▪ Physiological ▪ Psychosocial • Assessment ▪ Maternal and foetal measures ⋆ Maternal measures- History taking, examination-general, physical and obstetrical measure, identification of high risk, ⋆ Foetal measures- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (AchE), Triple Test, Aminocentesis, Cordocentesis, Chorionic Villus Sampling (CVS)) ⋆ Biophysical- USG 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
IV	**25**	**Normal Labour and nursing management** • Essential factors of labour • Stages and onset ▪ First stage ⋆ Physiology of normal labour ⋆ Use of partograph: Principles, use and critical analysis, evidence based studies ⋆ Analgesia and anaesthesia in labour ⋆ Nursing management

Units	Hours	Course Content
		▪ Second stage ★ Physiology , intrapartum monitoring ★ Nursing management. ★ Resuscitation , immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) ▪ Third stage ★ Physiology and nursing management ▪ Fourth stage ★ Observation, critical analysis and nursingmanagement • Various child birth practice: water birth, position change, etc • Evidence based practice in relation to labour intervention • Role of nurse midwifery practitioner • Alternative/complementary therapies
V	**20**	**Normal puerperium and nursing management** • 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 • Role of nurse midwifery practitioner • Alternative/complementary therapies
VI	**20**	**Normal Newborn** • Physiology and characteristics of normal newborn • Physical and Behavioral 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
VII	**10**	**Pharmocodynamics in obstetrics** • 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

Units	Hours	Course Content

VIII	10	**Family welfare services**
		• 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** • Primary and secondary causes • Diagnostic procedures • Counseling: ethical and legal aspects of assisted reproductive technology (ART) • Recent advancement in infertility management. • Adoption procedures • Role of nurses in infertility management.
X	5	**Menopause** • Physiological, psychological and social aspects • Hormone Replacement Therapy • Surgical menopause • Counseling and guidance • Role of midwifery nurse practitioner
XI	5	**Abortion** • Types, causes • Legislations, Clinical rights and professional responsibility • Abortion procedures • Complications • Nursing management • Role of midwifery nurse practitioner

Practical

Total = 660 Hours
1 Week = 30 Hours

S. No.	Dept/Unit	No. of Week	Total Hours
1	Antenatal 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	Gynaec	2	60
7	Maternity OT	2	60
8	NICU	1	30
	Total	**22**	**660**

Procedures to be observed

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

Procedures to be assisted

- Medical termination of pregnancy

Procedures to be 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

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CLINICAL SPECIALTY – I
CHILD HEALTH NURSING

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 660
Total : 810

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

Units	Hours	Content
I	10	**Introduction** • 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

Units	Hours	Course Content
II	10	**Assessment of pediatric clients** • History taking • Developmental assessment • Physical assessment • Nutritional assessment • Family assessment
III	10	**Hospitalized child** • 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** • 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** • 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** • Parent child relationship • Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child • Common behavioral problems and their management • Child guidance clinic
VII	15	**Preventive Pediatrics and Pediatric Nursing** • 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

Units	Hours	Course Content
		• National and international organizations related to child health • Role of pediatric nurse in the hospital and community
VIII	**30**	**Neonatal Nursing** • 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**	**IMNCI** (Integrated management of neonatal and childhood illnesses)

Practical

Total = 660 Hours
1 Week = 30 Hours

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

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 visit

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8. Neonatal Nursing Care Handbook: An Evidence-Based Approach to Conditions and Procedures, Lott & Kenner, 2nd edition, Springer Publishing Company
9. Neonatal Equipments, Ashok K Deora, Vinod K Paul, CBS publications
10. Pediatrics & neonatal mechanical ventilation, Praveen Khilnani, Jaypee Publisher
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CLINICAL SPECIALITY – I
MENTAL HEALTH NURSING

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 660
Total : 810

Course Description

This course is designed to assist students in developing expertise and indepth understanding in the field of psychiatric nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as 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** • 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 • Role of psychiatric nurse- extended and expanded

Units	Hours	Course Content
II	10	**Concepts of psychobiology** • The nervous system: ▪ An anatomical review ▪ The brain and limbic system ▪ Nerve tissue ▪ Autonomic nervous system ▪ Neurotransmitters • Neuroendocrinology ▪ Pituitary, thyroid gland ▪ Circadian rhythms • Genetics • Neuro psychiatric disorders • Psychoimmunology ▪ Normal immune response ▪ Implications for psychiatric Illness • Implications for nursing
III	10	**Theories of personality development and relevance to nursing practice** • 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** • An introduction to the concepts of stress • Psychological adaptation to stress • Stress as a biological response • Stress as an environmental event • Stress as transaction between the individual and the environment • Stress management
V	10	**Therapeutic communication and interpersonal relationship** • 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 and its phases: conditions essential to develop a therapeutic relationship • Therapeutic impasses and its management

Units	Hours	Course Content
VI	10	**Assertive training** • Assertive communication • Basic human rights • Response patterns ▪ Nonassertive behavior ▪ Assertive behavior ▪ Aggressive behavior ▪ Passive-aggressive behavior • Behavioral components of assertive behavior • Techniques that promote assertive behavior • Thought-stopping techniques and method • Role of the nurse
VII	10	**Promoting self-esteem** • Components of self-concept • The development of self-esteem • The manifestations of low-self-esteem • Boundaries • Role of the Nurse
VIII	5	**Women and Mental Health** • Normal reaction to conception, pregnancy and puerperium • Problems related to conception, pregnancy and puerperium and its management • Counseling – premarital, marital and genetic
IX	10	**The nursing process in psychiatric/mental health nursing** • 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 ▪ Critical pathways of care • Documentation ▪ Problem-oriented recording ▪ Focus charting ▪ The PIE method
X	35	**Psychosocial and physical therapies** • Individual therapy • Behavioral Therapy- relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, abreaction therapy • Group therapy • Family therapy • Milieu therapy

Units	Hours	Course Content
		• Therapeutic community • Occupational therapy • Recreational therapy • Play therapy • Music therapy • Light therapy 61 • Color therapy • Aroma therapy
XI	**5**	**Electroconvulsive Therapy** • Historical perspectives • Indications • Contraindications • Mechanism of action • Side effects • Risks associated with electroconvulsive therapy • Role of the nurse in electroconvulsive therapy
XII	**10**	**Psychopharmacology** • Historical perspectives • Role of a nurse in psychopharmacological therapy ▪ Antianxiety agents ▪ Antidepressant agents ▪ Mood stabilizers ▪ Antipsychotics ▪ Sedative hypnotics ▪ Central nervous system stimulants • Future developments
XIII	**15**	**Alternative systems of medicine in mental health** • Type of therapies ▪ Herbal medicine ▪ Unani ▪ Siddha ▪ Homeopathic ▪ Acupressure and acupuncture ▪ Diet and nutrition ▪ Chiropractic medicine ▪ Therapeutic touch and massage ▪ Yoga ▪ Pet therapy

Practical

Total = 660 Hours
1 Week = 30 Hours

Sl. No.	Area of Posting	No. of Week	Total Hours
1	Acute psychiatric ward	4	120
2	Chronic psychiatric ward	4	120
3	Psychiatric emergency unit	2	60
4	O.P.D	2	60
5	Family psychiatric unit	2	60
6	Community mental health unit	4	120
7	Rehabilitation / occupational therapy unit / half way home / day care centre	4	120
	Total	**22**	**660**

Student Activities

- History taking
- Mental health assessment
- Psychometric assessment
- Personality assessment
- Process recording
- Therapies- group therapy
- Family therapy
- Psychotherapy
- Milieu therapy
- Therapeutic community
- Occupational therapy
- Recreational therapy
- Play therapy
- Music therapy
- Pet therapy
- Counseling
- Assist ECT
- Assist EEG
- Case studies
- Case presentation
- Project work
- Socio and psycho drama
- Field visits

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CLINICAL SPECIALITY – I
COMMUNITY HEALTH NURSING

Placement : I Year

Hours of Instruction
Theory : 150
Practical : 660
Total : 810

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

Units	Hours	Course Content
I	10	**Introduction** • 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 ▪ National health policy

Units	Hours	Content
		▪ National population policy (2000, 2002 & 2017) ▪ National health and welfare programmes ▪ National health goals/ indicators/ Millennium Developmental Goals (MDG)/ Strategies Sustainable Development Goals ▪ Planning process : Five year plans ▪ National rural health mission
II	**10**	**Health** • Concepts, issues • Determinants • Measurements • Health economics • Health technology • Genetics and health • Waste disposal • Eco system
III	**15**	**Population dynamics and control** • 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
IV	**30**	**Community health nursing** • 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 ▪ 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** **Integrated Management of neonatal and Childhood Illness (IMNCI) :** • Introduction to common childhood diseases

Units	Hours	Course Content
		• Integrated evidence-based syndromic approach to manage sick child • Components of integrated approach • The principles of integrated care • Integrated case management process at home, referral centre and at out patient service (OP) • Clinical assessment for selected conditions • Jaundice, diarrhea, measles, feeding problems, malnutrition, fever, caugh, difficulty in breathing, pneumonia, anemia and ear problem • Counselling a mother or a caretaker for the selected conditions **Skilled Birth Attendant (SBA) module** • Management of normal pregnancey, labour and postpartum period • Management of obstetric complications • Ensuring the quality care through community involvement and counseling
VI	**10**	**Disaster nursing (INC module on reaching out : Nursing care in emergencies)** • Introduction • Types and levels of disaster • Disaster mitigation • Phases of disaster management • Disaster management plans and activation of disaster management plan • Disater management of community - nurses role • Capacity building programme for community volunteers, health care professionals. • Disaster management committees
VII	**10**	**Information, education and communication** • 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** • Health organization: national, state, district, CHC, PHC, sub centre, village - Functions, staffing, pattern of assistance, layout, drugs, equipment and supplies , roles and responsibilities of DPHNO • Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives • Alternative systems of medicine • Alternate systems for health promotion and management of health problems • Training and supervision of health workers • Health agencies : NGO's, roles and functions • Inter-sectoral coordination • Public private partnership • Panchayat raj institutions • Challenges of health care delivery system

Practical

Total = 660 Hours
1 Week = 30 Hours

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

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
- Organizing and participating in special clinics/camps and national health and welfare programmes- Organize 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
- Organize 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

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NURSING MANAGEMENT

Placement : II Year

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

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

Units	Hours		Course Content
	Theory	Practical	
I	10		**Introduction** • Philosophy, purpose, elements, principles and scope of administration • Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, state and local • Organization 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** • Functions of administration

Units	Hours		Course Content
	Theory	Practical	
			• Planning and control • Co-ordination and delegation • Decision making – decentralization, basic goals of decentralization • Concept of management **Nursing management** • Concept, types, principles and techniques • Vision and mission statements • Philosophy, aims and objective • Current trends and issues in nursing administration • Theories and models • Application to nursing service and education
III	**15**		**Planning** • 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 • Application to nursing service and education
IV	**15**	**126**	**Organization** • Concept, principles, objectives, types and theories, Minimum requirements for organization, developing an organizational structure, levels, organizational effectiveness and organizational climate • Organizing nursing services and patient care: Methods of patient assignment- advantages and disadvantages, primary nursing care • Planning and organizing: hospital, unit and ancillary services(specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) • Disaster management: plan, resources, drill, etc • Application to nursing service and education
V	**15**	**8**	**Human Resource for health** • Staffing ▪ Philosophy

Units	Hours		Course Content
	Theory	Practical	
			▪ 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 • NABH • Applications to nursing service and education
VI	**15**		**Directing** • 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 • Application to nursing service and education
VII	**10**		**Material management** • 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 • Application to nursing service and education
VIII	**15**	**8**	**Controlling** • Quality assurance – Continuous quality improvement ▪ Standards - NABH, ISO, JACHO and JCI ▪ Models ▪ Nursing audit • Performance appraisal: Tools, confidential reports, formats, management, interviews

Units	Hours		Course Content
	Theory	Practical	
			• 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 • Application to nursing service and education
IX	**15**	**8**	**Fiscal planning** • 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 • Application to nursing service and education
X	**10**		**Nursing informatics** • 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**		**Leadership** • 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 • Applications to nursing service and education

Units	Hours		Course Content
	Theory	Practical	
XII	10		**Legal and ethical issues** • Laws and ethics • Ethical committee • Code of ethics and professional conduct • Legal system: types of law, tort law and liabilities • Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character • Patient care issues, management issues, employment issues • Medico legal issues • Nursing regulatory mechanisms: licensure, renewal, accreditation • Patients rights, Consumer Protection Act (CPA) • Rights of special groups: children, women, HIV, handicap, ageing • Professional responsibility and accountability • Infection control • Standard safety measures

PRACTICALS

1. Prepare prototype personal files for staff nurses, faculty and cumulative records
2. Preparation of budget estimate, Revised estimate and performance budget
3. Plan and conduct staff development programme
4. Preparation of Organisation Chart
5. Developing nursing standards/protocols for various units
6. Design a layout plan for speciality units /hospital, community and educational institutions
7. Preparation of job description of various categories of nursing personnel
8. Prepare a list of equipments and supplies for specialty units
9. Assess and prepare staffing requirement for hospitals, community and educational institutions
10. Plan of action for recruitment process
11. Prepare a vision and mission statement for hospital, community and educational institutions
12. Prepare a plan of action for performance appraisal
13. Identify the problems of the specialty units and develop plan of action by using problem solving approach
14. Plan a duty roster for specialty units/hospital, community and educational institutions
15. Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, official letters, curriculum vitae, presentations etc
16. Prepare a plan for disaster management
17. Group work
18. Field appraisal report

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CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING
SUB SPECIALITY – CARDIO VASCULAR AND THORACIC NURSING

Placement : II Year

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

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
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

Units	Hours	Course Content
I	5	**Introduction** • 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** • 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** • Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung • Coronary circulation • Hemodynamic and electro physiology of heart • Bio-chemistry of blood in relation to cardio pulmonary function
IV	20	**Assessment and diagnostic measures** • History taking • Physical assessment ▪ Heart rate variability: mechanisms , measurements, pattern, factors, impact of interventions on HRV • Diagnostic tests ▪ Hemodynamic monitoring: technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and Swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand ▪ Radiologic examination of the chest: interpretation, chest film findings ▪ Electro cardiography (ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination 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

Units	Hours	Course Content
		▪ 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 • 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 • Interpretation and role of nurse
V	**25**	**Cardiac disorders and nursing management** • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of ▪ 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 • Associated illnesses
VI	**10**	**Altered pulmonary conditions** • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of ▪ 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

Units	Hours	Course Content
		▪ Acute respiratory failure ▪ Adult respiratory distress syndrome ▪ Pulmonary embolism ▪ Pulmonary hypertension
VII	10	**Vascular disorders and nursing management** • Etiology, clinical manifestations,diagnosis, prognosis,related pathophysiology, treatment modalities and nursing management of ▪ 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** • 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** • Assessment • Use of artificial airway • Endotracheal intubation, tracheostomy and its care • Complication, minimum cuff leak, securing tubes • **Oxygen delivery systems** ▪ Nasal Cannula ▪ Oxygen mask, Venturi mask ▪ Partial rebreathing bag ▪ Bi-PAP and C-PAP masks ▪ Uses, advantages, disadvantages, nursing implications of each • **Mechanical Ventilation** ▪ 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

Units	Hours	Course Content
X	10	**Congenital Heart Diseases,** • Etiology, clinical manifestations, diagnois, prognosis, related pathophysiology, treatment modalities and nursing management of ▪ 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 review** • Pharmacokinetics • Analgesics/Anti inflammatory agents • Antibiotics, antiseptics • Drug reaction & toxicity • Drugs used in cardiac emergencies • Blood and blood components ▪ 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 ▪ Antilipemics • Principles of drug administration, role and responsibilities of nurses and care of drugs
XII	20	**Nursing Care of patient undergoing cardio thoracic surgery** • Indications, selection of patient • Preoperative assessment and preparation; counselling • Intraoperative care : Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass

Units	Hours	Course Content
		• 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 • Follow up care
XIII	**5**	**Cardiac rehabilitation** • Process • Physical evaluation • Life style modification • Physical conditioning for cardiovascular efficiency through exercise • Counseling • Follow up care
XIV	**5**	**Intensive Coronary Care Unit/intensive cardio thoracic unit** • Quality assurance ▪ 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

Practical

Total = 660 Hours
1 Week = 30 Hours

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

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 catheterization
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 catheterization

12. Angiogram
13. Defibrillation
14. Treadmill test
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. Tuberculen skin test
7. Aerosal 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 thrombophlebetes
23. Identification of Homan's signs
24. Bergen – Allen exercises

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CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING
SUB SPECIALTY - CRITICAL CARE NURSING

Placement : II Year

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

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

Units	Hours	Course Content
I	5	**Introduction to critical care nursing** • 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

Units	Hours	Course Content
		• 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 Impact of critical care environment on patients** ▪ Risk factors, Assessment of patients, Critical care psychosis, prevention& nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, Caring for the patient's family, family teaching ▪ The dynamics of healing in critical care unit:-therapeutic touch, • Relaxation, Music therapy, Guided Imagery, acupressure • Stress and burnout syndrome among health team members
III	14	**Review** • 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** • 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
V	5	**Infection control in intensive care unit** • Nosocomial infection in intensive care unit; methylresistant staphylococcus aureus (MRSA), disinfection ,sterilization, standard safety measures, prophylaxis for staff
VI	10	**Gastrointestinal system** • Causes, pathophysiology, clinical types ,clinical features, diagnosis, prognosis, Management: Medical, Surgical and Nursing management of-Acute gastrointestinal bleeding, abdominal injury, Hepatic Disorders-Hepatic failure, Hepatic encephalopathy, Acute pancreatitis, Acute intestinal obstruction, perforative peritonitis
VII	10	**Renal system** • 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 venus hemodialysis, Renal transplant

Units	Hours	Course Content
VIII	10	**Nervous system** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management: medical, surgical and nursing management of-Common Neurological Disorders-Cerebrovascular disease, Cerebro vascular accident, Seizure disorders, Guillein barre-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** • 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** • 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) • 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** • Principles of Nursing in caring for patients 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 & nurisng 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

Units	Hours	Course Content
		• Management Modalities-Thrombolytic therapy, Pacemaker – temporary & permanent, Percutaneou, 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** • Acid-base balance & imbalance • Assesment -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, clinicaltypes, 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, Pulmonarytuberculosis, 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
XIII	**7**	**Burns** • 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** • 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, Peurperal sepsis, Obstetrical shock

Units	Hours	Course Content
XV	10	**Neonatal Paediatric emergencies** • Causes, pathophysiology, clinical types, clinical features, diagnostic, prognosis, management -medical, surgical and nursing management of ▪ Neonatal emergencies • Asphyxia neonatarum, Pathological Jaundice in neonates, Neonatal seizures, Metabolic disorders, Intra cranial hemorrhage, neonatal sepsis, rds/hmd (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders, ▪ Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertropic 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** • Brain death • Organ donation & Counselling • Do Not Resuscitate(DNR) • Euthanasia • Living will
XVII	2	**Quality assurance** • 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.	Area of Posting	No. of Week	Total Hours
3	Burns ICU	2	60
5	Medical ICU	8	240
6	Surgical ICU	12	360
9	CCU	2	60
10	Emergency Department	3	90
12	Dialysis Unit	1	30
13	Transplant Room	2	60
14	Paediatric/ NICU	2	60
	Total	**32**	**960**

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

III. Procedure Performed

1. Airway management
   a. Application of oropharyngeal airwa
   b. Oxygen therapy
   c. CPAP (Continuous Positive Airwa Pressure)
   d. Care of tracheotomy
   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

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CLINICAL SPECIALITY - II
MEDICAL SURGICAL NURSING
SUB SPECIALTY- ONCOLOGY NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

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

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

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

Units	Hours	Course Content
I	4	**Introduction** • 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

Units	Hours	Course Content
II	5	**The nature of cancer** • Normal cell biology • The Immune system • Pathological and pathophysiological changes in tissues ▪ 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** • 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** • Health assessment-History taking, physical examination, • Staging and grading of tumors • TNM Classification • Common diagnostic tests ▪ 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 • Nurses responsibilities in diagnostic measures
V	10	**Levels of prevention and care** • 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

Units	Hours	Course Content
VI	25	**Cancer treatment modalities and nurse's role** • **Surgery** ▪ 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** ▪ 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** ▪ 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 ResearchCentre (BARC) • **Bone marrow transplantation /stem cell transplantation** ▪ 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)** ▪ Concepts and principles ▪ Classification of agents ▪ Treatment and applications • **Gene Therapy** ▪ Current concepts and practices **Alternative and Complementary Therapies** ▪ Current practices

Units	Hours	Course Content
VII	10	• **Pain management,Theories, types** ▪ Nature of cancer pain ▪ Pathophysiology of pain ▪ Pain threshold **Assessment of pain** ▪ 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** ▪ Complementary therapies (Music, massage, meditation, relaxation techniques, biofeed back etc) ▪ Psychological intervention in pain control ▪ Alternative system of medicines • Role of nurse
VIII	5	**Palliative care** • 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 • Role of nurse in palliative care
IX	2	• **Infection control** ▪ 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** • 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)

Units	Hours	Course Content
XI	10	**Paediatric malignancies** • 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** • Nutrition-effects of cancer on nutritional status and its consequences- Anemia, Cachexi, 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** • Dyspepsia & hiccup,dyspnoea • intestinal obstruction • Fungating wounds • Anxiety & depression, insomnia • Lymph edema **Impact of cancer on sexuality** • Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient • Nursing management of cancer patients experiencing sexual dysfunction • Sexual counseling
XIII	10	**Cancer emergencies** • 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** • 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** • End of life care • Grief and grieving process • Bereavement support • Care of nurses who care for the dying

Units	Hours	Course Content
XV	2	**Layout and design of an oncology institution/ ward, opd, chemotherapy unit, bone marrow transplantation unit, pain clinic etc** • Practice Standards of oncology nursing ▪ Policies and Procedure • Establishing Standing orders and Protocols **Quality assurance programme in oncology units** • Nursing audit

Clinical Experience

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

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. Defibrillation, 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

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

Placement : II Year

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

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. organize and conduct in service 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

Units	Hours	Course Content
I	5	**Introduction** • Introduction to neuroscience(neurological and neurosurgical) nursing ▪ 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** • 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 • Alternate system of medicine/complementary therapies
III	10	**Review of anatomy and physiology** • Embryology • Structure and functions of Nervous system- CNS, ANS, cereberal circulation , cranial and spinal nerves and reflexes, motor and sensory functions • Sensory organs
IV	15	**Assessment and diagnostic measures** • Assessment ▪ History taking ▪ Physical assessment, psychosocial assessment ▪ Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing ▪ Common assessment abnormalities • Diagnostic measures ▪ 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 evokedpotentials, somatosensory evoked potentials ▪ Ultrasound studies-carotid duplex, transcranial Doppler sonography, ▪ Immunological studies ▪ Biopsies – muscle, nerve and Brain interpretation of diagnostic measures ▪ Nurse's role in diagnostic tests

Units	Hours	Course Content
V	5	**Meeting nutritional needs of neurological patients** • 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** • Classification • Indications, contraindications, actions and effects, toxic effects • Role of nurse
VII	10	**Traumatic conditions** Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management: medical, surgical and nursing management of, ▪ Cranio cerebral injuries ▪ Spinal & Spinal cord injuries ▪ Peripheral nerve injuries ▪ Unconsciousness
VIII	10	**Cerebro vascular disorders** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis , management: medical, surgical and nursing management of, ▪ Stroke & arterio venous thrombosis ▪ Haemorrhagic embolus ▪ Cerebro vascular accidents ▪ Intracranial aneurysm ▪ Subarchnoid haemorrhage ▪ Arterio venous fistula ▪ Brain tumours • Diseases of cranial nerves,Trigiminal neuralgia, Facial palsy, Bulbar palsy
IX	10	**Degenerating and demyelinating disorders** • Causes, pathophysiology, clinical types, clinical features, diagnostic, prognosis, management: medical, surgical and nursing management of, ▪ Motor neuron diseases ▪ Movement disorders-tics, dystonia, chorea, Wilson's disease, essential tremors ▪ Dementia ▪ Parkinson's disease ▪ Multiple sclerosis ▪ Alzemier's

Units	Hours	Course Content
X	10	**Neuro infections** • Causes, pathophysiology, clinical types, clinical features, diagnostic, prognosis, management -medical, surgical and nursing management of , • Neuro infections ▪ Meningitis-types ▪ Encephalitis ▪ Poliomyelitis ▪ Parasitic infections ▪ Bacterial infections ▪ Neurosyphilis ▪ HIV & AIDS ▪ Brain abscess
XI	10	**Paroxysmal disorders** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management: medical, surgical and nursing management of, ▪ 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, ▪ 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, ▪ Polyneuritis-GB 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, ▪ Space occupying lesions -types ▪ Common tumors of CNS

Units	Hours	Course Content
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
XVI	10	**Neuro emergencies** • Causes, pathophysiology, clinical types, clinical features, diagnostic, prognosis, management-medical, surgical and nursing management of, ▪ Increased intracranial pressure ▪ Unconscious ▪ Herniation syndrome ▪ Seizures ▪ Severe head injuries ▪ Spinal injuries ▪ Cerebro vascular accidents
XVII	5	**Rehabilitation** • 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** • Brain death and organ transplantation • Euthanasia • Negligence and malpractice • Nosocomial infections
XIX	5	• Quality assurance in neurolgical nursing practice • Role of advance practitioner in neurological nursing • Professional practice standards • Quality control in neurologic nursing • Nursing audit • Neuro ICU ▪ Philosophy, aims and objectives ▪ Policies, staffing pattern, design and physical plan of Neuro ICU ▪ Team approach, functions ▪ Psychosocial aspects in relation to staff and clients of Neuro ICU ▪ In service education

Practical

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	960

I.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. Cereberal 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

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CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING
SUB SPECIALTY - NEPHRO-UROLOGY NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

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 urologicalnursing
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 provider
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

Units	Hours	Course Content
I	5	**Introduction** • 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)

Units	Hours	Course Content
II	**5**	**Epidemiology** • Major health problems-urinary dysfunction, urinary tract infections, Glomuerular disorders, obstructive disorders ad 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 • Alternate system of medicine/complementary therapies
III	**5**	**Review of anatomy and physiology of urinary system** • 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** • History taking • Physical assessment, psychosocial assessment • Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesistancy, hematuria, pain, retention,burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, • Diagnostic tests-urine studies,blood chemistry,radiological procedures-KUB, IVP, nephrotomogram, retrograde pylogram, renal arteriogram, renalultrasound, CT scan, MRI, cystogram, renal scan, biopsy, endoscopy- cystoscopy, urodynamics studies-cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videourodynamics, Whitaker study, Interpretation of diagnostic measures, Nurse's role in diagnostic tests
V	**5**	**Renal immunopathy/Immunopathology** • General Concept of immunopathology • Immune mechanism of glomerual vascular disease • Role of mediater systems in glomerula vascular disease
VI	**15**	**Urological Disorders and Nursing Management** • 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 urethera • Urinary tract infections • Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux, • Bladder disorders- neoplasms, calculi, neurogenic bladder, trama, congenital abnormalities • Benign prostrate hypertrophy (BPH) • Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters • Uretheral disorders- tumours, trauma, congenital anomalies of ureters

Units	Hours	Course Content
VII	25	**Glomueral disorders and nursing management** • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of, • Glomueralo nephritis- chronic, acute , nephrotic 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 kidney disease • Congenital disorders • Hereditary renal disorders
VIII	10	• **Management of Renal emergencies** • Anuria • Acute renal failure • Poisoning • Trauma • Urine retention • Acute graft rejection • Hematuria • Nurse's role
IX	10	**Drugs used in urinary disorders** • Classification • Indications, contraindications, actions and effects, toxic effects • Role of nurse
X	10	**Dialysis** • Dialysis- Historical, types, Principles, goals ▪ Hemodialysis- vascular access sites- temporary and permanent ▪ Peritoneal dialysis • Dialsyis Procedures- steps, equipments, maintenance, • Role of nurse- pre dialysis, intra and post dialysis • Complications • Counseling • patient education • Records and reports

Units	Hours	Course Content
XI	10	• 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	• 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** • 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 Syndrome, Benign recurrent haemturia, nephropathy, wilms'tumour
XIV	5	**Critical care units- dialysis , KTP unit** • 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	• Quality assurance in nephrological nursing practice • Role of advance practioner in nephrological nursing • Professional practice standards • Quality control in nephrological nursing • Nursing audit

Practical

Total = 960 Hours
1 Week = 30 Hours

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

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 uretheral and suprapubic catheters

3. Urine analysis
4. Catheterization
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:Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions
13. Collection of specimen
14. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy,electrolyte imbalance
15. Nutritional needs, diet therapy & patient education
16. Counselling

IV. OTHER PROCEDURES

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19. Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7th Edn. Saunders, Mossouri.

YENEPOYA

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING
SUB SPECIALTY - ORTHOPEDIC NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

Course Description

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

Objectives

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

1. appreciate the history and developments in the field of orthopedic nursing
2. identify the psycho-social needs of the patient while providing holistic care
3. perform physical and psychological assessment of patients with orthopedic conditions and disabilities
4. describe various disease conditions and their management
5. discuss various diagnostic tests required in orthopedic conditions
6. apply nursing process in providing care to patients with orthopedic conditions and those requiring rehabilitation
7. recognize and manage orthopedic emergencies
8. describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation
9. integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopedic conditions
10. counsel the patients and their families with orthopedic conditions
11. describe various orthotic and prosthetic appliances
12. appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation
13. appreciate the role of alternative system of medicine in care of patients with orthopedic conditions
14. incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing
15. recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and rehabilitation team
16. teach orthopedic nursing to undergraduate students and in-service nurses
17. prepare a design and layout of orthopedic and rehabilitative units

Units	Hours	Course Content
I	5	**Introduction** • Historical perspectives – History and trends in orthopedic nursing • Definition and scope of orthopedic nursing • Anatomy and physiology of musculo-skeletal system • Posture, Body landmarks Skeletal system Muscular system

Units	Hours	Course Content
		• Nervous system – Main nerves • Healing of- Injury, bone injury • Repair of ligaments • Systemic response to injury • Ergonomics, Body mechanics, biomechanical measures • Orthopedic team
II	**8**	**Assessment of orthopedic patient** • Health Assessment: History, physical examination- inspection, palpation, movement, measurement, muscle strength testing • Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies
III	**10**	**Care of patients with devices** • Splints, braces, various types of plaster cast • Various types of tractions • Various types of orthopedic beds and mattresses • Comfort devices • Implants in orthopedic • Prosthetics and Orthotics
IV	**15**	**Injuries** **Trauma & Injuries** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of, ▪ Early management of Trauma ▪ Fractures ▪ Injuries of the • Shoulder and arm • Elbow, fore arm, wrist, hand • Hip, thigh, knee, leg, ankle, foot • Spine • Head injury • Chest injury ▪ Polytrauma ▪ Nerve injuries ▪ Vascular injuries ▪ Soft tissue injuries ▪ Sports injuries ▪ Amputation
V	**8**	**Infections of Bones and Joints** • Causes, pathophysiology, clinical types, clinical features,diagnosis, prognosis, management, medical surgical and nursing management of ▪ Tuberculosis ▪ Osteomyelitis ▪ Arthritis ▪ Leprosy

Units	Hours	Course Content
VI	5	**Bone Tumours** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of, ▪ Bone tumors -Benign, malignant and metastatic • Different types of therapies for tumors
VII	10	**Deformities** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of:Scoliosis, Kyphosis,Lordosis • Congenita 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** • Intervertebral disc prolapse, Fracture of the spine • Low back disorder – Low back pain, PND, spinal stenosis, spondylosis
IX	5	**Nutritional/metabolic and endocrine disorders** • Causes, pathophysiology,clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of, ▪ Rickets ▪ Scurvy ▪ Hyper vitaminosis A and D ▪ Osteomalacia ▪ Osteoporosis ▪ Paget's disease ▪ Gout ▪ Gigantism ▪ Dwarfism ▪ Acromegaly ▪ Therapeutic diets for various orthopedic disorders
X	8	**Neuro-muscular disorders** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of, ▪ Poliomyelitis, Cerebral Palsy ▪ Myasthenia gravis ▪ Spina bifida ▪ Peripheral nerve lesion ▪ Paraplegia, Hemiplegia, Quadriplegia ▪ Muscular dystrophy

Units	Hours	Course Content
XI	8	**Chronic/degenerative diseases of joints and autoimmune disorders** • Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis medical surgical and nursing management of, ▪ Osteo arthritis ▪ Rheumatoid arthritis ▪ Ankylosing spondylitis ▪ Spinal disorders ▪ Systemic lupus erythematosus
XII	5	**Orthopedic disorders in children** • General and special consideration on pediatric orthopedics • Genetic disorders • Congenital anomalies • Growth disorders • Genetic counseling • Nurses role in genetic counseling
XIII	5	**Geriatric Problems** • 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** • 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
XV	30	**Nurses Role in Orthopedic Conditions** • 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

Units	Hours	Course Content
		• Spirituality – A rehabilitative prospective **Orthopedic Reconstructive Surgeries** • Replacement surgeries – Hip, Knee, Shoulder • Spine surgeries • Grafts and flaps surgery • Deformity correction **Physiotherapy** • Concepts, principles, purpose ▪ 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, tripoid, walking with sticks, calipers ▪ Forms of therapies-Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat ▪ Chest physiotherapy
XVI	**8**	**Rehabilitation** • 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**	**National policies and programmes** • National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing corporation, District Rehabilitation Centers and their schemes • Regional rehabilitation centers etc • 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** • 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.	Area of Posting	No. of Week	Total Hours
1	Orthopedic Ward	8	240
2	Orthopedic Operation theatre	4	120
3	Neurosurgical Ward	2	60
4	Orthopedic O.P.D.	4	120
5	Casualty/Emergency and Trauma	4	120
6	Rehabilitation Units	2	60
7	Physiotherapy Unit	4	120
8	Paediatric /paediatric surgery unit	2	60
9	Field Visit	2	60
	Total	**32**	**960**

I. 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

II. 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, Fracturesfixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting
6. Injection – Intra articular, intra osseous
7. Advance life support

III. Procedures 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

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12. Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7th Edn. Saunders, Mossouri.

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING
SUB SPECIALTY - GASTRO ENTEROLOGY NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

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 nusing
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
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 entrology intensive care unit (GEICU) , liver care/transplant unit

Course Content

Units	Hours	Course Content
I	5	**Introduction** • 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)

Units	Hours	Course Content
II	5	**Epidemiology** • 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** • Gastrointestinal system • Liver, biliary and pancreas • Gerontologic considerations • Embryology of GI system • Immunology specific to GI system
IV	15	**Assessment and diagnostic measures** • History taking • Physical assessment, psychosocial assessment • Diagnostic tests ▪ 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 ▪ Colonoscopy ▪ Proctosigmoidoscopy ▪ Endoscopic Retrogrde Cholongio Pancreotography (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, Interpretation of diagnostic measures, Nurse's role in diagnostic tests
V	25	**Gastro intestinal disorders and nursing management** • 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,

Units	Hours	Course Content
		Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw ▪ Disorders of the oesophagus-Reflux oesophagitis, Oesophageal achalasia, Esophageal 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 ⋆ 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 Anorectal Conditions -Hemorrhoide, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease, Anal condylomas, Warts
VI	**15**	**Disorder of liver, pancreas gall bladder and nursing management** • Disorders of liver biliary tract • Viral Hepatitis – A, B, C, D & E • Toxic hepatitis ▪ 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 • Cholelitheasis • Choledocholilethiasis • Disorders of the pancreas: Pancreatitis • Benign tumors of islet cells • Disorders of the Peritoneum ▪ Infections of the peritoneum • Surgical peritonitis • Spontaneous bacterial peritonitis • Tuberculosis peritonitis • Disorders of the Diaphragm ▪ Diaphragmatic hernia ▪ Congenital hernias ▪ Paralysis of diaphragm ▪ Tumors of the diaphragm • Hiccups

Units	Hours	Course Content
VII	15	**Gastro intestinal emergencies and nursing interventions** • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of, ▪ 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	**Congenital anomalies of esophagus** • Esophageal atresia • Tracheo esophageal fistula • Esophageal stenosis • Esophageal duplications • Dysphagia –Lusoria–aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzkiring • Esophageal webs **Congenital Anomalies of Stomach** • Gastric atresia • Micro gastria • Gastric diverticulum • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis **Congenital Anomalies of Duodenam** • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvolus **Developmental anomalies of the intestine** • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia • Hirschsprung's disease

Units	Hours	Course Content
		Developmental anomalies of the intestine • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia • **Hirschsprung's disease**
IX	**15**	**Pharmo Kinetics** 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 Antihelminthics Vitamin Supplements
X	**10**	**Nutrition and nutritional problems related to GI system** • 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** • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of, • 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

Units	Hours	Course Content
XII	5	**Administration and management of GE unit** • 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** • Staff orientation, training and development • In-service education program • Clinical teaching programs

Practicals

Total = 960 Hours
1 Week = 30 Hours

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

Procedures to be Assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnotic and therapeutic)
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic Retrograde Cholangio Pancreatiography (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 to be 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
Practical : 960
Total : 1110

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 specialty 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 identifies the areas of research in the field of obstetrical and gynaecological nursing
14. function as independent midwifery nurse practitioner

Course Content

Units	Hours	Course Content
I	25	**Management of problems of women during pregnancy** • 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 ▪ Pernicious Vomiting ▪ Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases

Units	Hours	Course Content
		▪ Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta praevia, abruptio placenta ▪ Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolytic Elevated liver enzyme Low Platelet count (HELLP) ▪ Iso–immune diseases, Rh and ABO incompatibility ▪ Hematological problems in pregnancy ▪ Hydramnios-oligohydramnios, polygydrmnios ▪ 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** • Metabolic conditions. • Anemia and nutritional deficiencies • Hepatitis • Cardio-vascular disease • Thyroid diseases • Epilepsy. • Essential hypertension • Chronic renal failure • Tropical diseases • Malaria and Dengue fever in pregnancy • 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	**25**	**Abnormal labour, pre-term labour & obstetrical emergencies** • Etiology, pathopyhsiology and nursing management of ▪ Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour ▪ Abnormal lie, presentation, position compound presentation ▪ Contracted pelvis CPD dystocia ▪ Obstetrical emergencies ⋆ Obstetrical shock ⋆ Vasa praevia ⋆ Inversion of uterus ⋆ Amniotic fluid embolism ⋆ Rupture uterus ⋆ Presentation and prolapse cord

Units	Hours	Course Content
		• Obstetrical procedures ▪ Augmentation of labour, Medical and surgical induction ▪ Version ▪ Manual removal of placenta • Obstetrical operations ▪ Forceps delivery ▪ Ventouse delivery ▪ Caesarean section ▪ Destructive operations • Genital tract injuries ▪ Third degree perineal tear ▪ VVF ▪ RVF • Complications of third stage of labour ▪ Post partum hemorrhage ▪ Retained placenta
IV	**10**	**Post partum complications** • Nursing management of ▪ 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**	**High Risk Newborn** • Concept, goals, assessment, principles • Nursing management of ▪ 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, opthalmia neonatorum, congenital syphilis, HIV/AIDS ▪ Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn • Advanced neonatal procedures ▪ Calculation of fluid requirements • Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU

Units	Hours	Course Content
VI	15	**HIV/AIDS** • 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 • Role of nurse
VII	25	**Gynecological problems and nursing management** • Gynecological assessment • Gynecological procedures • Etiology, pathophysiology, diagnosis and nursing management of ▪ Menstrual Disorders ⋆ Premenstrual syndrome ⋆ Dysmenorrheal ⋆ Amenorrhea ⋆ Menorrhagia ⋆ Polymenorrhagia ⋆ Oligomenorrhea ⋆ Metrorrhagia ⋆ Hypomenorrhea ⋆ DUB ▪ Disease of genital tract ⋆ PID ⋆ TB of pelvis ⋆ TB of fallopian tubes ⋆ TB of uterus, ovaries, cervix and vagina ▪ Genital tract infections ⋆ Endometritis ⋆ Salphingitis ⋆ Oopheritis ⋆ Cervicitis ⋆ Pelvis Abscess ⋆ Vulvitis ⋆ Vaginitis ⋆ STIs ▪ Uterine displacement ⋆ retroverted uterus ⋆ uterine inversion ▪ Genital prolapsed ⋆ Cystocele ⋆ Urethrocele

Units	Hours	Course Content
		⋆ Enterocele ⋆ Rectocele ⋆ Uterine prolapsed ⋆ Vaginal vault prolapse ▪ Genital injuries ⋆ Third degree perineal tear ⋆ VVF, RVF ▪ Uterine malformation ⋆ Congenital malformation of uterus ⋆ Fallopian tubes ⋆ Ovaries and vagina ▪ 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** • 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** • Staff orientation, training and development, • In-service education program • Clinical teaching programs

Practicals **Total = 960 Hours**

1 Week = 30 Hours

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

Essential Obstetrical and Gynecological Skills

Procedure to be observed

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

Procedures to be 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 to be 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
- Assessment, 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, bereavement, 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

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CLINICAL SPECIALITY – II
CHILD HEALTH NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

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

Course Content

Units	Hours	Course Content
I	5	**Introduction** • Current principles, practices and trends in Pediatric Nursing • Role of pediatric nurse in various settings -Expanded and extended
II	35	**Pathophysiology, assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders** • Child with respiratory disorders: ▪ Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. ▪ Lower respiratory tract : Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis • Child with gastro-intestinal disorders: ▪ 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

Units	Hours	Course Content
		• Child with cardio-vascular disorders: ▪ Acquired: Rheumatic fever, Rheumatic heart disease, ▪ Congenital: Cynotic and Acynotic • 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, nephroblastomas, 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**	**Assessment(including interpretation of various invasive andnon-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders** • Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs' disease/ megacolon, malrotation, intestinal obstruction, duodenal atresia,gastrochisis, exomphalus, anorectal malformation,omphalocele, diaphragmatic hernia • 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, Neuro blastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma • Management of stomas, catheters and tubes • Management of wounds and drainages
IV	**10**	**Intensive care for pediatric clients** • 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

Units	Hours	Course Content
V	20	**High Risk Newborn** • Concept, goals, assessment, principles. • Nursing management of 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,opthalmia neonatorum, cogenital 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	10	**Developmental disturbances and implications for nursing** • 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** • Physically challenged, causes, features, early detection and management • Cerebral palsied child • Mentally challenged child • Training & rehabilitation of challenged children
VIII	5	**Crisis and nursing intervention** • The hospitalized child • Terminal illness & death during childhood • Nursing intervention-counseling
IX	5	**Drugs used in Pediatrics** • Criteria for dose calculation • Administration of drugs, oxygen and blood • Drug interactions • Adverse effects and their management

Units	Hours	Course Content
X	10	**Administration and management of pediatric care unit** • Design & layout • Staffing • Equipment, supplies • Norms, policies and protocols • Practice standards for pediatric care unit • Documentation
XI	5	**Education and training in Pediatric care** • Staff orientation, training and development • In-service education program • Clinical teaching programs.

Practicals **Total = 960 Hours**

1 Week = 30 Hours

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

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

Essential

I. Procedures to be observed:

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

II. Procedures to be 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

III. Procedures to be performed:

- Airway Management
  - Application of Oro Pharyngeal Airway
  - Oxygen therapy
  - CPAP(Continuous Positive Airway Pressure)
  - Care of Tracheostomy
  - Endotracheal Intubation
- Neonatal Resuscitation
- Monitoring of Neonates – clinically & with monitors, CRT (Capillary Refill Time), assessment of jaundice, ECG
- Gastric Lavage
- Setting of Ventilators
- Phototherapy
- Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, Newborn examination, detection of life threatening congenital abnormalities,
- Admission & discharge of neonates
- Feeding-management of breast feeding, artificial feeding, expression of breast milk, OG(Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counseling
- Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermoregulation & control
- Administration of Drugs : I/M, IV injection, IV Cannulation & fixationinfusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/insulin syringes, Monitoring fluid therapy, Blood administration.
- Procedures for prevention of infections : Hand washing, disinfections & sterilization, surveillance, fumigation
- Collection of specimens
- Setting, Use & maintenance of basic equipment : Ventilator, O_2 analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow

IV. Other procedures

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YENEPOYA

CLINICAL SPECIALITY – II
MENTAL HEALTH NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

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 develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/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. apply the nursing process in the care of patients with mental disorders in hospital and community
2. demonstrate advanced skills/competence in nursing management of patients with mental disorders
3. identify and care for special groups like children, adolescents, women, elderly, abused and neglected, people living with HIV/AIDS
4. identify and manage psychiatric emergencies
5. provide nursing care to critically ill patients with mental disorders
6. utilize the recent technology and various treatment modalities in the management of patients with mental disorders
7. demonstrate skills in carrying out crisis intervention
8. appreciate the legal and ethical issues pertaining to psychiatric nursing
9. identify areas of research in the field of psychiatric nursing
10. prepare a design for layout and describe standards for management of psychiatric units/emergency units/ hospitals
11. teach psychiatric nursing to undergraduate students & in-service nurses

Units	Hours	Course Content
I	2	**Principles and practice of psychiatric nursing** • Review
II	10	**Crisis intervention** • Crisis, definition • Phases in the development of a crisis • Types of crisis; dispositional,anticipated life transitions traumatic stress, maturational/ development , reflecting psychopathology • Psychiatric emergencies and their management • Grief and grief reaction • Crisis intervention; phases • Post traumatic stress disorder (PTSD) • Role of the nurse

Units	Hours	Course Content
III	4	**Anger/ Aggression management** • Anger and aggression, types, predisposing factors • Management • Role of the nurse
IV	5	**The suicidal client** • Epidemiological factors • Risk Factors ▪ Predisposing Factors**:** Theories of suicide-psychological, sociological, biological • Nursing management
V	5	**Disorders of infancy, childhood, and adolescence** • Mentally challenged • Autistic disorders • Attention-deficit/hyperactivity disorder • Conduct disorders, behavioural disorders • Oppositional defiant disorder • Tourette's disorders • Separation anxiety disorder • Psychopharmacological intervention and nursing management
VI	5	**Delirium, dementia, and amnestic disorders** • Delirium • Dementia • Amnesia • Psychopharmacological intervention and nursing management
VII	10	**Substance-related disorders** • Substance-use disorders • Substance-induced disorders • Classes of psychoactive substances • Predisposing factors • The dynamics of substance-related disorders • The impaired nurse • Codependency • Treatment modalities for substance-related disorders and nursing management
VIII	10	**Schizophrenia and other psychotic disorders** • Nature of the disorder • Predisposing factors • Schizophrenia -types ▪ Disorganized schizophrenia ▪ Catatonic schizophrenia ▪ Paranoid schizophrenia ▪ Undifferentiated schizophrenia

Units	Hours	Course Content
		▪ Residual schizophrenia • Other psychotic disorders ▪ Schizoaffective disorder ▪ Brief psychotic disorder ▪ Schizophrenicform disorder ▪ Psychotic disorder due to a general medical condition ▪ Substance-induced psychotic disorder • Treatment and nursing management
IX	**8**	**Mood disorders** • Historical perspective • Epidemiology • The grief response • Maladaptive responses to loss • Types of mood disorders • Depressive disorders • Bipolar disorders • Treatment and nursing management
X	**8**	**Anxiety disorders** • Historical aspects • Epidemiological statistics • How much is too much? • Types ▪ Panic disorder ▪ Generalized anxiety disorder ▪ Phobias ▪ Obsessive-compulsive disorder ▪ Posttraumatic stress disorder ▪ Anxiety disorder due to a general medical condition ▪ Substance-induced anxiety disorder • Treatment modalities • Psychopharmacology & nursing management
XI	**5**	**Somatoform and sleep disorders** • Somatoform disorders • Historical aspects • Epidemiological statistics • Types ▪ Pain disorder ▪ Hypochondriasis ▪ Conversion disorder ▪ Body dysmorphic disorder ▪ sleep disorder • Treatment modalities and nursing management

Units	Hours	Course Content
XII	4	**Dissociative disorders and management** • Historical aspects • Epidemiological statistics • Treatment modalities and nursing management
XIII	4	**Sexual and gender identity disorders** • Development of human sexuality • Sexual disorders • Variation in sexual orientation • Nursing management
XIV	4	**Eating disorders** • Epidemiological factors • Predisposing factors • Types ▪ Anorexia nervosa ▪ Bulimia nervosa ▪ Obesity • Psychopharmacology • Treatment & nursing management
XV	4	**Adjustment and impulse control disorders** • Historical and epidemiological factors • Adjustment disorders • Impulse control disorders • Treatment & nursing management
XVI	4	**Medical conditions due to psychological factors** • Asthma • Cancer • Coronary heart disease • Peptic ulcer • Essential hypertension • Migraine headache • Rheumatoid arthritis • Ulcerative colitis • Treatment & nursing management
XVII	8	**Personality disorders** • Historical perspectives • Types of personality disorders ▪ Paranoid personality disorder ▪ Schizoid personality disorder ▪ Antisocial personality disorder ▪ Borderline personality disorder ▪ Histrionic personality disorder ▪ Narcissistic personality disorder ▪ Avoidance personality disorder ▪ Dependent personality disorder

Units	Hours	Course Content
		▪ Obsessive-compulsive personality disorder ▪ Passive-aggressive personality disorders • Identification, diagnostic criteria, symptoms • Psychopharmacology • Treatment & nursing management
XVIII	**8**	**The aging individual** • Epidemiological statistics • Biological theories • Biological aspects of ageing • Psychological aspects of ageing • Memory functioning • Socio-cultural aspects of ageing • Sexual aspects of ageing • Special concerns of the elderly population • Psychiatric problems among elderly population • Treatment & nursing management
XIX	**5**	**The person living with HIV disease** • Psychological problems of individual with HIV/AIDS • Treatment & nursing management-counseling
XX	**5**	**Problems related to abuse or neglect** • Vulnerable groups ▪ Women ▪ Children ▪ Elderly ▪ Psychiatric patients ▪ Under privileged ▪ Mentally challenged • Predisposing factors • Treatment & nursing management- counseling
XXI	**7**	**Community mental health nursing** • National mental health program- community mental health program • The changing focus of care • The public health model • The role of the nurse • Case management • The community as client ▪ Primary prevention ▪ Secondary prevention ▪ Tertiary prevention ▪ Populations at risk • Community based rehabilitation
XXII	**5**	**Ethical and legal issues in psychiatric/mental health nursing** • Ethical considerations • Legal consideration

Units	Hours	Course Content
		▪ Nurse practice acts ▪ Types of law ▪ Classification within statutory and common law ▪ Legal issues in psychiatric/mental health nursing ▪ Nursing liability
XXIII	**5**	**Psychosocial rehabilitation** • Principles of rehabilitation • Disability assessment • Day care centers • Half way homes • Reintegration into the community • Training and support to care givers • Sheltered workshops • Correctional homes
XXIV	**5**	**Counseling** • Liaison psychiatric nursing • Terminal illnesses-counseling • Post partum psychosis-treatment, care and counseling • Death dying- counseling • Treatment, care and counseling ▪ Unwed mothers ▪ HIV and AIDS
XXV	**5**	**Administration and management of psychiatric units including emergency units** • Design & layout • Staffing • Equipment, supplies • Norms, policies and protocols • Quality assurance • Practice standards for psychiatric nursing • Documentation
XXVI	**5**	**Education and training in mental health nursing** • Staff orientation, training and development • In-service education program • Clinical teaching programs

Practicals **Total = 960 Hours**

1 Week = 30 Hours

S. No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120
2	Chronic Psychiatric Ward	4	120
3	De-addiction Unit	4	120
4	Psychiatric Emergency Unit	4	120
5	O.P.D (Neuro and psychiatry)	3	90
6	Child psychiatric unit and child guidance clinic	2	60
7	Post natal ward	1	30
8	Family psychiatric unit	2	60
9	Field visits	2	60
10	Rehabilitation	2	60
11	Community mental health centre	4	120
	Total	**32**	**960**

I. Essential psychiatric nursing skills

Procedures to be observed

1. Psychometric tests
2. Personality tests
3. Family therapy
4. Assisted
5. CT
6. MRI
7. Behavioral therapy

II. Procedures to be performed

1. Mental status examination
2. Participating in various therapies – physical; ECT
3. Administration of oral, IM, IV psychotropic drugs
4. Interviewing skills
5. Counseling skills
6. Communication skills
7. Psycho education
8. Interpersonal relationship skills
9. Community survey for identifying mental health problems
10. Rehabilitation therapy
11. Health education and life skills training
12. Supportive psychotherapeutic skills
13. Group therapy
14. Milieu therapy
15. Social/recreational therapy
16. Occupational therapy

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CLINICAL SPECIALITY – II
COMMUNITY HEALTH NURSING

Placement : II Year

Hours of Instruction
Theory : 150
Practical : 960
Total : 1110

Course Description

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

Objectives

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

1. appreciate trends and issues related to community health Nursing- reproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and mental health.
2. apply epidemiological concepts and principles in community health nursing practice
3. perform community health assessment and plan health programmes
4. describe the various components of Reproductive and child health programme.
5. demonstrate leadership abilities in organizing community health nursing services by using inter-sectoral approach.
6. describe the role and responsibilities of community health nurse in various national health and family welfare programmes
7. participate in the implementation of various national health and family welfare programme
8. demonstrate competencies in providing family centered nursing care independently
9. participate/Conduct research for new insights and innovative solutions to health problems
10. teach and supervise nurses and allied health workers.
11. design a layout of sub center/Primary health center/Community health centre and develop standards for community health nursing practice.

Course Content

Units	Hours	Course Content
I	20	**Epidemiology** • Introduction ▪ Concept, scope,definition, trends, history and development of modern epidemiology ▪ Contribution of epidemiology ▪ Implications • Epidemiological methods • Measurement of health and disease • Health policies • Epidemiological approaches ▪ Study of disease causatives ▪ Health promotion ▪ Levels of prevention

Units	Hours	Course Content

		• Epidemiology of
		  ▪ Communicable diseases
		  ▪ Non-communicable diseases
		• Emerging and re-emerging diseases epidemics
		• National integrated disease surveillance programme
		• Health information system
		• Epidemiology study and reports
		• Role of Community health nurse

II	**40**	**National health and family welfare programmes**
		• Objectives, organization/manpower/resources, activities, goals, inter-sectoral approach, implementation, item/purpose, role and responsibilitiesof community health nurse:
		  ▪ National Vector Borne Disease Control Programm (NVBDCP)
		  ▪ National Filaria Control Programme
		  ▪ National Leprosy Eradication Programme
		  ▪ Revised national TB Control Programme
		  ▪ National Programme for Control of Blindness
		  ▪ National Iodine Deficiency disorders Control
		  ▪ Programme
		  ▪ National Mental Health Programme
		  ▪ National AIDS Control Programme
		  ▪ RSBY
		  ▪ National Cancer Control Programme
		  ▪ RCH I and II
		  ▪ Non- Communicable Disease Programmes
		  ▪ NRHM
		  ▪ Health Schemes:
		  ⋆ ESI
		  ⋆ CGHS
		  ⋆ Health Insurance

III	**15**	**School health** • Introduction: definition, concepts, objectives • Health assessment, screening, identification, referral and follow up, safe environment • Services, programmes and plans- first aid, treatment of minor ailments • Inter-sectoral coordination • Adolescent health • Disaster, disaster preparedness, and management • Guidance and counseling • School health records - maintenance and its importance • Roles and responsibilities of community health nurse
IV	**15**	**International health** • Global burden of disease • Global health rules to halt disease spread • Global health priorities and programmes • International quarantine

Units	Hours	Course Content
		• Health tourism • International cooperation and assistance • International travel and trade • Health and food legislation, laws, adulteration of food • Disaster management • Migration • International health agencies –World Health Organizations, World Health Assembly, UNICEF, UNFPA,SIDA, US AID, DANIDA, DFID. AusAID etc • International health issues and problems • International nursing practice standards • International health vis-a vis national health • International health days and their significance
V	**15**	**Education and administration** • Quality assurance • Standards, protocols, policies, procedures • Infection control, standard safety measures • Nursing audit • Design of sub-centre/primary health centre/ community health center • Staffing; supervision and monitoring-performance appraisal • Budgeting • Material management • Role and responsibilities of different categories of personnel in community health • Referral chain- community outreach services • Transportation • Public relations • Planning in-service educational programme and teaching • Training of various categories of health workers-preparation of manuals
VI	**10**	**Geriatric** • Concept, trends, problems and issues • Aging process, and changes • Theories of ageing • Health problems and needs • Psycho-physiological stressors and disorders • Myths and facts of aging • Health assessment • Home for aged-various agencies • Rehabilitation of elderly • Care of elderly • Elderly abuse • Training and supervision of care givers • Government welfare measures Programmes for elderly- Role of NGOs • Roles and responsibilities of Geriatric nurse in the community

Units	Hours	Course Content
VII	10	**Rehabilitation** • Introduction: Concepts, principles, trends, issues, • Rehabilitation team • Models, methods • Community based rehabilitation • Ethical issues • Rehabilitation Council of India • Disability and rehabilitation- Use of various prosthetic devices • Psychosocial rehabilitation • Rehabilitation of chronic diseases • Restorative rehabilitation • Vocational rehabilitation • Role of voluntary organizations • Guidance and counseling • Welfare measures • Role and responsibilities of community health nurse
VIII	10	**Community mental health** • Magnitude, trends and issues • National Mental Health Program - Community mental health program • Mental Health Act 1st April 1987, 2017 • The changing focus of care • The public health model • Case management- collaborative care • Crisis intervention • Welfare agencies • Population at risk • The community as client ▪ Primary prevention ▪ Secondary prevention ▪ Tertiary prevention • Community based rehabilitation • Human rights of mentally ill • Substance use • Mentally challenged groups • Role of community health nurse
IX	15	**Occupational health** • Introduction ▪ Trends ▪ issues ▪ definition ▪ Aims &objectives ▪ workplace safety • Ergonomics and **e**rgonomic solutions • Occupational environment- physical, social, decision making, critical thinking • Occupational hazards for different categories of people- physical, chemical, biological, mechanical, accidents,

Units	Hours	Course Content
		• Occupational diseases and disorders • Measures for health promotion of workers ▪ Prevention and control of occupational diseases, disability limitations and rehabilitation • Women and occupational health • Occupational education and counseling • Violence at workplace • Child labour • Disaster preparedness and management • Legal issues: Legislation, Labour unions, ILO and WHO

Practical

Total = 960 Hours

1 Week = 30 Hours

S. No.	Dept. / Unit	No. of Week	Total Hours
1	Urban and Rural community	17	510
2	School Health	3	90
3	International Health	2	60
4	Administration (SC/PHC/CHC)	2	60
5	Occupational Health	2	60
6	Community Mental Health	2	60
7	Home for the aged and Hospice	2	60
8	Rehabilitation	2	60
	Total	**32**	**960**

Categorization of practical activities

Observed

- MCH office and DPHNO
- CHC/ First Referral Unit(FRU)
- Child guidance clinic
- Institute/Unit for mentally challenged
- District TB centre
- AIDS control society
- Filariasis clinic
- RCH clinic
- STD clinic
- Leprosy clinic
- Community based rehabilitation unit

- Cancer centers
- Palliative care
- Home of old age
- Mental health units
- De-addication centres
- School health services
- Industry
- Selected industrial health centers
- ESI unit
- Municipality/ corporation office

Assisted

- Laparoscopic sterilization
- Vasectomy
- All clinics related to RCH
- Monitoring of national health and family welfare programmes

Performed

- Conduct various clinics
- School health assessment.
- Health survey.
- Health assessment
- Drug administration as per the protocols
- Treatment of minor ailments
- Investigating outbreak of epidemic.
- Screening for leprosy, TB and non-communicable disease
- Presumptive and radical treatment for Malaria.
- Counselling
- Report writing
- Referrals
- Writing a project proposal
- Material management- requisition for indent, condemnation, inventory maintenance,
- Training and Supervision of various categories of personnel
- Liaison with NGO's

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