

**KERALA UNIVERSITY
OF
HEALTH SCIENCES**

SYLLABUS

M.Sc Nursing

2010 Admission

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INTRODUCTION

Scientific and technological advancements have created complexity in the field of nursing necessitating advanced educational preparation. To keep pace with the tremendous progress in Medical Science and to meet changing health care needs specialization and research are essential in nursing science. Hence post graduations in the following specialties are required:

1. Medical Surgical Nursing (Sub specialties - Cardio Vascular & Thoracic Nursing, Critical care Nursing, Oncology Nursing, Neurosciences Nursing, Nephro-Urology Nursing, Orthopedic Nursing, Gastro Enterology Nursing)
2. Obstetrics and Gynaecological Nursing
3. Child Health (Paediatric) Nursing
4. Mental Health (Psychiatric) Nursing
5. Community Health Nursing

I. PHILOSOPHY

The Faculty of Nursing believes that Nursing, as a health science require prompt updating of knowledge and skills in the areas of clinical specialty to render quality services and maintain collaboration with other health professionals.

Postgraduate programme prepare nurses to assume leadership positions in Nursing and allied health fields as specialists, practitioners, consultants, educators, counselors, administrators and researchers in a variety of settings in meeting the health care priorities and the changing needs of the society.

It encourages accountability and commitment in continuing education and also contributes to the body of knowledge in nursing through guided and independent research studies and facilitates evidence – based practice. It fosters decision making, critical thinking and creative work.

II. AIM

Aim of the postgraduate programme in nursing is to prepare graduates to assume responsibilities as Clinical Nurse Specialists, Nurse Practitioners, Consultants, Educators, Researchers and Administrators in a wide variety of professional settings.

III. OBJECTIVES

On completion of the 2 year M.Sc Nursing programme, the graduates will be able to:-

1. Apply the concepts, theories and principles of nursing science.
2. Demonstrate competencies in nursing practice.
3. Practice as Clinical Nurse Specialist.
4. Establish collaborative relationship with the members of other disciplines.
5. Assume leadership in various care settings.
6. Participate in health planning, implementation and evaluation at different levels of health care system.
7. Function as effective nurse educators and nurse managers.
8. Conduct independent nursing research and utilize the research findings in nursing practice and education.
9. Critically evaluate various educational programmes in nursing.
10. Demonstrate interest and positive attitude in continuing education for personal and professional growth.

Regulations

IV. Selection & admission of candidates

a). Admission

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

b). Eligibility Criteria/Admission Requirements:

1. The candidate should be a Registered Nurse and Registered Midwife with Kerala Nurses and Midwives Council.
2. The minimum educational requirements shall be the passing of regular degree course in Nursing – (B.Sc. Nursing / B.Sc. (Hons). Nursing / Post Basic B.Sc. Nursing), with minimum of 55% aggregate marks, in an institution which is recognized by Indian Nursing Council.

3. Minimum one year of experience after Basic B.Sc. Nursing. One year compulsory nursing service/internship after successful completion of four year B.Sc Nursing can be considered as experience.
4. Minimum one year of experience prior or after regular Post Basic B.Sc. Nursing.
5. Candidate shall be medically fit.
6. Relaxation of marks for SC/ST candidates may be given as per state government norms.

c). Medium of Instruction & Examinations

The medium of instruction and examination shall be in English.

d). Entrance/Selection test

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

e). Eligibility Certificate from KUHAS

The candidate has to make an application to the university with the following documents along with the prescribed fee to obtain an eligibility certificate issued from the University.

- i. B.Sc Nursing pass / degree certificate issued by the University.
- ii. One year teaching or Clinical experience / Internship certificate
- iii. Permanent Registration Certificate from State Nursing Council.
- iv. Certificate of Recognition of the qualifying examination in case of candidates who have passed B.Sc Nursing / Post basic B.Sc Nursing (regular) from universities outside Kerala.
- v. Migration Certificate in case of candidates who have passed B .Sc Nursing / Post basic B.Sc Nursing (regular) from other universities.
- vi. Transfer Certificate
- vii. Mark list of all the examinations of the B. Sc Nursing course.
- viii. Nativity Certificate
- ix. Certificate to prove age.
- x. Certificate to prove community in case of SC/ST candidates.

- xi. Any other certificate required along with the application.

A candidate who has been admitted to postgraduate course should register his/her name in the University within **a month of admission after** remitting the registration fee.

Any postgraduate seats left unfilled in any specialty cannot be carried forward to the next or subsequent years.

f). Migration & Transfer

Migration and transfer from one college to another will not be permitted after the student has registered with a course of study with the university.

g). Fitness Certificate:

Every candidate before admission to the course shall submit to the Principal of the Institution a Certificate of Medical Fitness from an authorized Medical Officer certifying that the candidate is fit to undergo the course.

h). Date of Commencement of the Course

The course will be deemed to have commenced on the date on which the first candidate joins the course. This date will be considered as the date of joining in the Postgraduate register maintained in the University.

V. Eligibility for appearing for the examination:

a). Attendance

Candidate should have 80% attendance for theory and practical, with minimum 50% of internal marks in each subject both in theory & practicals. However 100% of attendance should be completed for practical before the award of degree. The candidate should have completed the training period before the commencement of examination.

b). Attendance Deficit

The condonation of attendance shall be done by the Principal in consultation with the College Governing Council comprising Senior Faculty of the College to a maximum of 10% to attain 80% of minimum requirements in the respective academic year subject to a maximum of one time during the whole PG programme.

c). Examination fee

The examination fee should be remitted for each examination appeared for. A fee as

stipulated by the University should also be remitted for the evaluation of the thesis.

d). Log Book

Every candidate shall maintain a log book for recording performance of activities/ procedures/ attending/ organizing workshop/ conferences. The logbook shall be verified and certified by the Head of the Department and presented in the University practical examination.

e). Periodic Tests/Internal Assessment

The concerned departments may conduct tests / Internal assessment before the final examination. Three sessional examination should be conducted, out of which average of two highest marks will be taken. The marks obtained in tests /Seminar/ assignments will be maintained by the faculty of concerned department and will be made available to the University when required. The results of the **periodic tests/ sessional examination conducted by the respective departments** shall be displayed within 30 days from the date of last test. The complaints regarding award of marks, if any, have to be submitted to the Departmental Head within 5 working days from the display of the results. These complaints shall be examined by the Department Committee and decisions will be taken. The Department Committee shall approve the statement of marks of the periodic tests of all the students in a year, countersigned by the principal and forwarded to the University when required.

g). Dissertation

Every candidate pursuing M.Sc Nursing course is required to carry out work on a selected research project under the guidance of a recognized postgraduate teacher. The results of such a work shall be submitted in the form of a dissertation.

The dissertation is aimed to train a postgraduate student in research methods and techniques. It includes identification of a problem, formulation of hypotheses, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, and comparison of results and drawing conclusions.

Every candidate shall submit to the Registrar of the University in the prescribed format a synopsis containing particulars of proposed dissertation work after obtaining ethical clearance from the Institutional Ethical

Committee comprising principal/ Senior Professor of College of Nursing, **within nine months from the date of commencement of the course on or before the dates notified by the University.** The synopsis shall be sent through the proper channel.

Such synopsis will be reviewed and the dissertation topic will be registered by the university. No change in the thesis topic or guide shall be made without prior approval of the University.

Tentative Schedule for dissertation

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

The dissertation should be written under the following headings:

- i. Introduction
- ii. Objectives of the study
- iii. Review of Literature
- iv. Methodology
- v. Results
- vi. Discussion
- vii. Conclusion
- viii. Summary
- ix. References
- x. Annexure

The written text of dissertation shall be not less than 100 pages and shall not exceed 150 pages excluding references, tables, questionnaires, and other annexures. It should be neatly typed (font size 12-Times New Roman or font size 12-Arial) in double line spacing on one side of the bond paper (A4 size, 8.27” x 11.69”) and bound properly. Spiral binding should be avoided. The Guide and the Head of the Institution shall certify the dissertation.

The scientific committee of the college should scrutinize and evaluate the thesis and make required corrections if necessary and accept with modification before

submitting to the University.

Four copies of the dissertation prepared shall be submitted to the Registrar (Evaluation), on the 21st month of commencement of the course.

Hall ticket for the second year examination should be issued to the candidate only after the dissertation has been submitted to the University.

A. Research Guides

a) Qualification of Guide

Main guide: 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 teaching in the Post Graduate Programme in Nursing.

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

b) Guide – Students Ratio

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

Change of Guide – In the event of a registered guide leaving the college for any reason or in the event of death of Guide, Guide may be changed with prior permission from the University.

c) Research Committee

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

VI. University Examinations

Theory

One internal and one external examiner will value theory answer scripts.

Practicals

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per specialty.
- The examination should be held in concerned clinical area for clinical specialties.
- One internal and external examiner should jointly conduct practical examination including viva voce for each student.

Examiner – Nursing faculty *teaching respective specialty area in M.Sc nursing programme* with minimum 3 years teaching experience after M.Sc Nursing.

The examiners prior to viva should do evaluation of dissertation.

Duration: Viva-Voce -minimum 30 minutes per student.

Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second class
- 60-74% first class
- 75% and above is distinction

For declaring the rank/distinction/ First class, aggregate of 2 years marks to be considered and the candidates should have passed all the papers in the first chance. If the candidate fails in either practical or theory he/she has to reappear for both theory and practical. Maximum number of attempts per subject is three inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years.

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

The grading of the results of the programme shall be done at the end of Second year based on total marks secured for all years.

Below 50%	-	Failed	-	Grade C
50 to 59 percent	-	Passed with Second Class	-	Grade B
60 to 74 percent	-	Passed with First Class	-	Grade A
75 percent and above	-	First Class with Distinction	-	Grade A+

Leave

- Candidates can avail 20 days of leave per year and not more than 7 days at a time. All students are eligible for weekly off for one day. Thus a candidate is eligible to avail a maximum of 73 days per year inclusive of 20 days leave and weekly off.
- Also eligible for leave supported by medical certificate subject to verification by Medical Board and recommended by the Head of Institution.
- Any leave over and above 73 days in a year will have to be compensated by adequate extension of the duration of the course.

N. B: In Govt. Nursing Colleges, leave rules will be revised/amended as per the direction of Director of Medical Education.

Uniform

PG students have to wear prescribed uniform when they are in the clinical field.

Duration of the course

Duration of the course is 2 years

Weeks/year	: 52 weeks
Leave	: 3 weeks (20 days)
Examination	: 2 weeks
Total weeks available	: 47 weeks
Total hours/week	: 48 hours
48 hoursX47weeks	: 2256 hour/year

Total hours for 2 years: - 4512 hours

Course of Instruction

1 year	Theory (hrs)	Practical (hrs)
Nursing Education	150	150
Advanced Nursing Practice	150	500
Nursing Research and Statistics	150	100
Clinical Specialty-I	150	900
Total	600	1650

II Year	Theory (hrs)	Practical (hrs)
Nursing Management	150	200
Nursing Research (Dissertation)	-	300
*Clinical Specialty-II	150	1450
Total	300	1950
Grand Total	900	3600

***Clinical Specialty –II**

1. Medical Surgical Nursing

Sub Specialty:-

- a. Cardio Vascular & Thoracic Nursing
- b. Critical care Nursing
- c. Oncology Nursing
- d. Neurosciences Nursing
- e. Nephro-Urology Nursing
- f. Orthopedic Nursing
- g. Gastro Enterology Nursing

NB: - Of the total seats minimum 50% of the candidates should opt a sub specialty.

2. Obstetric & Gynecological Nursing

3. Child Health (Paediatric) Nursing

4. Mental Health (Psychiatric) Nursing

5. Community Health Nursing

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

Scheme of Examination

	Theory			Practical			
	Hours	Internal Marks	External Marks	Hours	Internal Marks	External Marks	Total
<i>1st year</i>							
Nursing Education	3	25	100		50	100	275
Advanced Nursing Practice	3	25	100				125
Nursing Research & Statistics	3	25**	100*				125
Clinical Specialty- 1	3	25	100	4 hrs	100	100	325
							850
<i>2nd year</i>							
Nursing Management	3	25	100				125
Dissertation Viva					100	100	200
Clinical Specialty 11	3	25	100	4 hrs	100	100	325
							650
Total of Ist & IInd Year							1500

* Nursing Research (External)=75Marksand Statistics(External)=25 Marks

**Nursing Research (Internal)=15 and Statistics(Internal)=10

***No separate pass minimum for Statistics.

1. There shall be one regular & one supplementary examination every year.
2. Candidate shall register for all parts of examination in their first appearance.
3. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. Maximum number of candidates for all practical examination should not exceed ten per day.
6. One internal and one external examiner should evaluate dissertation and jointly conduct viva-voce for each student.
7. For Dissertation internal examiner and external examiner should 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.

Health Services

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

- a. An annual medical examination.
- b. Vaccination against tetanus, hepatitis B or any other communicable disease as considered necessary.
- c. A complete health record should be 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 a competent medical authority.
- d. Free medical care during illness and/ provision of health insurance.

NURSING EDUCATION

Placement : Ist Year

Hours of Instruction

Theory 150 Hours

Nursing Faculty-115

External Faculty- 35

Practical 150 Hours

Total : 300 Hours

Course Description

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

Objectives

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

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

12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.
14. Explain the concept, principles, steps, tools and techniques of Evaluation.
15. Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude.

Course Content

Unit	Theory Hours	Content
I	10	<p>Introduction</p> <ul style="list-style-type: none"> • Education :Definition, aims, concepts, philosophies, Formulation of philosophy & their implications on education (Review) • 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 <p>Nursing education- Definition, aims, philosophy Trends in development of nursing education in India -ANM, GNM, Basic B.Sc. Nursing, Post Basic B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D in Nursing, Post basic diploma programs, Nurse practitioner programs.</p>
II	20	<p>Curriculum Development Definition, curriculum determinants, process and steps of curriculum development, Types and framework.</p> <ul style="list-style-type: none"> ❖ Educational Objectives - types, domains, levels, elements and writing of educational objectives, ❖ selection of learning experiences ❖ Organization of learning experiences; master plan, course plan, unit plan, Lesson Plan. ❖ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ❖ Evaluation of educational programs in nursing- course and program. ❖ Equivalency of courses : Transcript , credit system.

<p>III</p>	<p>20 *EF 10</p>	<p>Teaching – Learning Process</p> <ul style="list-style-type: none"> • Concepts of teaching and learning: Definition, principles ,theories of teaching and learning, relationship between teaching and learning • Competency based education, outcome based education(OBE) • Instructional strategies – Lecture, Discussion, Demonstration, Simulation, Laboratory Method, Seminar, Panel, Symposium, Problem solving, Workshop, Project, role- play (sociodrama) (Review) Microteaching. <p>Innovative Strategies</p> <p>Problem Based Learning (PBL), programmed instruction, Self Directed learning(SDL), Computer Assisted Instruction(CAI), computer Assisted Learning (CAL), Clinical teaching methods.</p> <ul style="list-style-type: none"> • Teacher - Roles & responsibilities, functions characteristics, competencies, qualities. • Preparation of professional teacher • Organizing professional aspects of teacher preparation programs. • Critical analysis of various programs of teacher education in India
<p>IV</p>	<p>15</p>	<p>Instructional Media & Methods</p> <ul style="list-style-type: none"> • Key concepts in the selection and use of media in education • Developing learning resource material using different Media. • Instructional aids – types, uses, selection, preparation, utilization. • Teacher’s role in procuring and managing • instructional Aids – Projected and non-projected aids,multi media, video-tele conferencing etc

V	40 EF20	<p>Evaluation:</p> <ul style="list-style-type: none"> • Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement, Principles of evaluation(review) characteristics-objectivity, validity, reliability, usability <p>Formative and summative evaluation.</p> <ul style="list-style-type: none"> • Internal assessment, external examination. criterion and norm referenced evaluation, • Evaluation strategies-meaning, characteristics. • Construction of test, administration of test , scoring, grading Vs marks. • Item analysis <p>Non-standardized tests :</p> <ul style="list-style-type: none"> • Essay, short answer questions and multiple choice questions, True & False, Completion.Tools of Evaluation-Rating scales, checklist,Objective Structured Clinical Examination (OSCE) , Objective Structured Practical Examination (OSPE),Viva Examination • Differential scales, and Summated scales, Sociometry, Anecdotal record, Attitude scale, critical incident technique. • Question bank-preparation, validation, moderation by panel. <p>Standardized Tools</p> <ul style="list-style-type: none"> • Tests of intelligence attitude, aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities. • Teacher Evaluation-Strategies
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VI	10	<p>Continuing Education in Nursing</p> <ul style="list-style-type: none"> • Concepts – Definition, importance, need, scope, principles of adult learning, assessments of learning needs, priorities, resources. • Program planning, implementation and evaluation of continuing education programs. • Research in continuing education. • Distance education in nursing.
VII	5 EF5	<p>Guidance and counseling</p> <ul style="list-style-type: none"> • Concept, principles, need, difference between guidance and counseling (Review). • Trends and issues in Guidance and counseling. • 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.
VIII	25	<p>Management of nursing educational institutions</p> <ul style="list-style-type: none"> • Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel. • Role of curriculum coordinator – planning , implementation & evaluation • Evaluation of educational programs in nursing- course & 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 & service

IX	5	<p>Quality in Nursing Education</p> <p>Development and maintenance of standards and accreditation in nursing education programs. Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University.</p>
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*** External Faculty (EF)**

Activities

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc)
- Observe and practice application of various non-standardized tests, (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

Methods of Teaching

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

Methods of evaluation

- Tests

- Presentation
- Project work
- Written assignments

Internal Assessment (Theory)

	Weightage
Test- (3 tests)	50%
Assignments	25%
Seminar/presentation	25%

Total	100%

Practical – Internal assessment

Preparation of Learning resource material &

Construction of tests/rotation plan.	25%
Practice Teaching	50%
Conduct Workshop /Short Term Course	25%
Total	100%

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Note:- * Latest Edition

ADVANCED NURSING PRACTICE

Placement: 1st Year

Hours of Instruction

Theory: 150 Hours

External Faculty:-30hrs

Nursing Faculty:-120hrs

Practical: 500 Hours

Total : 650 Hours

Course Description

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

Objectives:

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

1. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
2. Identify latest trends in nursing and the basis of advanced 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. Perform health assessment and General physical examination
6. Provide holistic and comprehensive care following nursing process approach
7. Perform extended and expanded role of nurse.
8. Describe alternative modalities of nursing care.
9. Describe the concept of quality control in nursing.
10. Identify the scope of nursing research.
11. Use computer in patient care delivery system and nursing practice.
12. Appreciate importance of self development and professional advancement.

COURSE CONTENT

Unit	Hours	Content
I	8	<p>Nursing as a Profession</p> <ul style="list-style-type: none"> • Review: History and development of nursing profession, Perspectives of Nursing Profession-National, global Code of ethics, code of professional conduct, autonomy and accountability, assertiveness, visibility of nurses, legal considerations, Role of regulatory bodies Professional organizations and unions-self defense, individual and collective bargaining • Evidence Based Nursing Practice • Progressive Patient Care • Quality assurance in nursing (INC). • Futuristic nursing.
II	5	<p>Health care delivery</p> <ul style="list-style-type: none"> • Health care environment, Health economics • Health care policy -National, State • Policy and politics in Nursing • Health care delivery system- national, state, district and local level. • Major stakeholders in the health care system-Government, NGOs etc • Patterns of nursing care delivery in India. • Health care delivery concerns • National health and family welfare programs:(Review) • Information, education and communication (IEC). • Tele-medicine.
111	20	<p>Philosophy and Theories of Nursing</p> <ul style="list-style-type: none"> • Values, Conceptual models, approaches. • Nursing theories: Nightingale's, Hendersons's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson parse, etc and their applications • Health belief models

		<ul style="list-style-type: none"> Evidence based practice model.
1V	12 *EF8	Clinical Assessment-History taking and physical examination
V	6	Nursing process <ul style="list-style-type: none"> Review: Identification of health-illness problems, health behaviors, Methods of data collection, analysis and utilization of data relevant to nursing process. Formulation of nursing care plans, health goals, Implementation, modification and evaluation of care.
V1	15 EF10	Genetics <ul style="list-style-type: none"> Molecular basis of the gene and transmission of genetic information Recombination, Mutation, Pedigree analysis Mapping the Human genome – Genome project. Approaches to common genetic disorders-Monogenic and polygenic 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.
V11	4 EF2	Epidemiology <ul style="list-style-type: none"> Review :Epidemiological approach and methods Concepts of causation of diseases and their screening, Application of epidemiology in health care delivery Health surveillance and health informatics Role of nurse
V111	30	Bio-Psycho social pathology <ul style="list-style-type: none"> Review: Biological and Psychodynamics of disease causation Life processes, Homeostatic mechanism, psycho-social dynamics in causation of disease, life style disease Common problems and management: Infection, Oxygen insufficiency, Fluid and electrolyte imbalance, Acid Base imbalance, Metabolic syndrome, Immune disorders, Hemorrhage, shock,

		Altered body temperature, Unconsciousness, Insomnia, pain, Sensory deprivation, Immobility, Anaphylaxis, Septicemia, Cardio pulmonary arrest.
IX	15 EF5	<p>Psychological aspects and Human relations</p> <ul style="list-style-type: none"> • Review: Human behavior, Personality trait, Communication and interpersonal relationships, Individual / group dynamics and organizational behavior, Basic human needs • Human Sexuality and sexual health. • Stress and adaptation, crisis and its intervention, • Coping with loss, death and grieving, • Principles and techniques of Counseling.
X	10	<p>Nursing practice</p> <ul style="list-style-type: none"> • Framework, scope and trends. • Alternative modalities of care • Alternative systems of health and complimentary therapies. • Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions. • Health promotion and primary health care. • Independent practice issues, Independent nurse-midwifery practitioner. • Collaboration issues and models-within and outside nursing. • Models of Prevention • Gender sensitive issues and women empowerment. • Disaster nursing. • Geriatric considerations in nursing. • Trans-cultural nursing.
XI	15	<p>Advanced nursing skills</p> <ul style="list-style-type: none"> • Definition, Indication and nursing implications: • TPN, Hemodynamic monitoring, Endo-tracheal intubation, Tracheotomy, Mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, Chest physio therapy, Pleural and abdominal paracentesis, Triage, Pulse oxymetry, CPR, ACLS

XII	10 EF5	Computer applications for patient care delivery system and nursing practice <ul style="list-style-type: none"> • Use of computers in teaching, learning, research and nursing practice. • Windows, MS office: Word, Excel, Power Point • Internet-literature search, • Statistical packages • Hospital management information system: softwares
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Legend: *EF-External Faculty

Practical – 500 Hrs

Clinical posting in the following areas:

Sl. No	Dept/Unit	No. of Weeks
1.	Medical and Surgical Wards	4
2.	ICUs	4
3.	Community Health Centre/ PHC	2
4.	Casualty	1
	Total	11

Activities

- Prepare Case studies with nursing process approach and theoretical basis
- Care Analysis 2
- Practice advance clinical procedures
- Presentation of comparative picture of theories
- Clinical presentations- 5
- Annotated bibliography

Methods of Teaching

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

Methods of evaluation:

- Tests

- Presentation
- Seminar
- Written assignments

Advance Nursing Procedures

Definition, Indication and nursing implications:

- Cardio Pulmonary Resuscitation, Total Parental Nutrition, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, Lumbar Puncture, Blood Transfusion Pleural and abdominal paracentesis Operation Room techniques, Health assessment, Triage, Pulse oxymetry.

Internal Assessment

Theory	Weightage
Test- (3 tests)	50%
Assignment	25%
Seminar/presentation	25%
	100%

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- ❖ Speakman,Alizabath , Body fluids and electrolytes” Latest edn .
- ❖ BerMn ,Snyder,Kozier,erb, “Fundamentals of Nursing, “Latest edn .
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- ❖ Martha Raila Alligood, Ann Marriner Tomey, “Nursing Theory Utilization & Application”, Elsevier.
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- ❖ Cathleene Masters, “Role development in Professional Nursing Practice”, Jones & Bartlett Publishers Boston.
- ❖ Janie B Butts Karen L Rich, “Nursing ethics across the curriculum and into practice”.
- ❖ Lewis, Heitkemper, Dirksen O Brien Brcher, “Medical Surgical Nursing, Latest edn, Mosby Publishers.
- ❖ G M Dhar, I Robbani, Foundations of Community Medicine, Latest edn”, Elsevier Publishers.

Note:- * Latest Edition

NURSING RESEARCH AND STATISTICS

Placement: 1st Year

Hours of Instruction

Theory : 150 Hours

Practical : 100 Hours

Total : 250 Hours

Part A: Nursing Research

Theory : 100 Hours

Practical: 75 Hours

Total : 175 Hours

Course Description:

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

General Objectives:

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

1. Recognize the significance of research in nursing and its importance in evidence- based nursing practice.
2. Identify the steps of quantitative and qualitative research.
3. Discuss the ethical aspects of research.
4. Review literature utilizing various resources.
5. Identify researchable problems in nursing.
6. Demonstrate skill in planning and conducting research studies.
7. Communicate research findings.
8. Utilize research findings.
9. Critically evaluate research reports and articles.
10. Write scientific paper for publications.

COURSE CONTENT:

Unit	Theory hours	Content	Practical hours	Content
I	5	<p>Introduction</p> <p>Review:</p> <p>Problem solving and scientific method.</p> <p>Research –definition, characteristics, purposes, types of research, Basic research terms, Scope of nursing research, Overview of Research process, Significance of research in nursing, Historical Evolution of nursing research.</p> <ul style="list-style-type: none"> • Future trends in nursing research. • Problems and challenges in nursing research, health and social research. • Priorities for nursing research. • Evidence based practice. • Ethics in research 		
II	5	<p>Review of Literature</p> <ul style="list-style-type: none"> • Review- <ul style="list-style-type: none"> • Importance, purposes, sources, criteria for selection of resources • Guidelines for writing literature review. 	5	Literature search-web search

III	10	<p>Research problem:</p> <ul style="list-style-type: none"> • Identification of research problem/ research question. • Formulation of problem statement and research objectives • Definition of terms • Assumption and delimitations • Identification of variables • Hypothesis –definition, formulation and types. 	5	<p>1. Identification of research question. 2. Formulation of problem statement and research objectives</p>
IV	5	<p>Developing theoretical /conceptual framework.</p> <ul style="list-style-type: none"> • Theories: Nature, characteristics, purpose and uses • Using, testing and developing conceptual framework, models and theories. 	5	<p>Developing theoretical /conceptual framework.</p>
V	15	<p>Research Approach and designs Qualitative and Quantitative.</p> <p>Qualitative research approaches: Grounded theory, phenomenology, ethnography, case study and historical research.</p> <p>Quantitative: Experimental and non experimental: types, characteristics, advantages and disadvantages.</p>		
VI	8	<p>Sampling Population and sample. Factors influencing sampling Sampling techniques Sample size Probability and sampling error</p>		

VII	20	<p>a) Data collection methods and Tools: Concepts of data collection, Data sources, methods/techniques quantitative and qualitative. Tools for data collection-types and characteristics</p> <p>b) Measurement and data quality Validity and reliability of tools, Characteristics of an instrument Steps in development of an instrument. Procedure for data collection</p>		
VIII	3	Critical analysis of research reports and articles	15	Critical analysis of research reports and articles
IX	4	Developing and presenting a research proposal	5	Presenting a research proposal
X	5	<p>Implementing research plan Pilot study, review research plan (design), planning for data collection, administration of tool/interventions, Collection of data</p>	40	Pilot study
XI	10	<p>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</p>		
XII	10	<p>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.</p>		

		Utilization of research findings. Writing scientific articles for publication: purposes & Style		
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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

Methods 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 (Concerned specialty)

Internal Assessment Techniques	Weightage (35 marks)
Term test (2 tests)	40%
Assignments	20%
Presentations	20%
Project work	20%
Total	100%

Part –B: Statistics (External Faculty)

Hours of Instruction

Theory	50Hours
Practical	25 Hours
Total	75 Hours

Course Description:

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

General Objectives:

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

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

COURSE CONTENT

Unit	Hours		Course content
	Theory	Practical	
I	7		Introduction: <ul style="list-style-type: none"> ➤ Concepts, types, significance and scope of statistics, meaning of data ➤ Sample, parameter ➤ Type and levels of data and their measurement ➤ Organization and presentation of data-Tabulation of data ➤ Frequency distribution ➤ Graphical and tabular presentations
II	4		Measures of central tendency: <ul style="list-style-type: none"> ➤ Mean, Median, Mode

III	4		Measures of variability: <ul style="list-style-type: none"> ➤ Range, Percentiles, Average deviation, Quartile deviation, Standard deviation
IV	3		Normal Distribution: <ul style="list-style-type: none"> ➤ Probability, Characteristics and application of normal probability curve, Sampling error
V	6		Measures of relationship: <ul style="list-style-type: none"> ➤ Correlation-need and meaning ➤ Rank order correlation ➤ Scatter diagram method ➤ Product moment correlation ➤ Simple linear regression analysis and prediction
VI	5		Designs and meaning: <ul style="list-style-type: none"> ➤ Experimental designs ➤ Comparison in pairs, randomized block design, Latin squares.
VII	8		Significance of Statistic and Significance of difference between two Statistics(Testing hypothesis) <ul style="list-style-type: none"> ➤ Non parametric test-Chi-square test, Sign, median test, Mann Whitney test ➤ Parametric test-‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5		Use of statistical methods in psychology and education: <ul style="list-style-type: none"> ➤ Scaling-Z Score, Z Scaling ➤ Standard Score and T Score ➤ Reliability of test scores: test-retest method, parallel forms split half method

IX	4	5	Application of statistics in health: Ratios, Rates, Trends Vital health statistics –Birth and death rates Measures related to fertility, morbidity and mortality
X	4	20	Use of Computers for data analysis Use of statistical package

Activities:

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

Methods of Teaching:

- Lecture-cum-discussion
- Demonstration-on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package

Methods of Evaluation:

- **Test, Classroom statistical exercises**

Internal Assessment Techniques

weightage 15 marks

Test – (2 tests)

100%

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- ❖ Rose A Utely. Theory and Research for Academy Nurse Educators Application to Practice, Jones and Bartlett Publishers.Boston
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Note:- * Latest Edition

CLINICAL SPECIALITY – I
MEDICAL SURGICAL NURSING-I

Placement: 1st Year

Hours of instruction

Theory: 150 Hours

Nursing Faculty: 120Hours

ExternalFaculty: 30 Hours

Practical: 900 Hours

Total: 1050 Hours

Course Description

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 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
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues
10. Prepare a design for ICU
11. Appreciate the role of alternative systems of Medicine in care of patients.
12. Incorporate evidence based Nursing practice and identify the areas of research
13. Recognize the role of Nurse practitioner as a member of the health team.
14. Conduct clinical Teaching for undergraduate nursing students & in-service nurses.

COURSE CONTENT:

Unit	Hours	Content
1	2	Introduction: <ul style="list-style-type: none"> • Historical development of Medical- Surgical Nursing • Trends & issues in Medical – Surgical Nursing. • Ethical & cultural issues in Medical – Surgical Nursing.
II	2	Review: General Health Assessment & History taking. <ul style="list-style-type: none"> • Nutritional assessment.
III	10 (EF 3)	Management of patients with disorders of Gastro intestinal system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination, diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of GERD, APD, Intestinal obstruction, , Pancreatitis, GI Bleeding, Irritable Bowel Syndrome, , HEPATITIS, Toxic and drug induced liver disease, Portal hypertension, Cirrhosis of Liver, Hepatic Failure, leptospirosis • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
IV	12 (EF 3)	Management of patients with disorders of nervous system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination, diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of Dementia, Stroke, Meningitis, Encephalitis, Epilepsy, ICSOL. • Related research studies & Evidence based <i>nursing</i> practice. • Rehabilitation and follow-up.
V	12 (EF 3)	Management of patients with disorders of respiratory system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of Asthma, Infections, COPD, ARDS, Respiratory Failure, Pulmonary edema, Pulmonary embolism, Pulmonary neoplasm

		<ul style="list-style-type: none"> • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
VI	12 (EF5)	Management of patients with disorders of cardio vascular system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of Hypertension, CAD, Acute coronary syndrome, Arrhythmias , CCF, Disorders of arteries & veins. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
VII	12 (EF 3)	Management of patients with disorders of blood <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of Anemias, Leukemias, Hemorrhagic Disorders. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
VIII	15 (EF3)	Management of patients with disorders of genito- urinary system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of Renal Calculi, UTI, Nephritis, Nephrotic Syndrome, ARF,CRF,BPH, Ca bladder. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
IX	15 (EF3)	Management of patients with disorders of endocrine system <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology, pathophysiology diagnostic tests & management of DM, Pituitary disorders, Thyroid parathyroid and adrenal dysfunctions.

		<ul style="list-style-type: none"> • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
X	15 (EF 3)	<p>Management of patients with disorders of muscular-skeletal system</p> <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination , diagnostic investigations • Etiology pathophysiology diagnostic tests & management of Arthritis, SLE, Osteoporosis, Osteomalacia, Osteomyelitis, Fracture, Gout. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
XI	4	<p>Management of patients with disorders of Integumentary System</p> <ul style="list-style-type: none"> • Health assessment- History taking, physical examination , diagnostic investigations • Etiology pathophysiology diagnostic tests & management of herpes psoriasis, dermatitis, pemiphigus, cellulites, leprosy, skin cancer, pressure ulcer. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
XII	4	<p>Management of patients with disorders of Eye and ENT</p> <ul style="list-style-type: none"> • Review: Functional anatomy and physiology. • Health assessment- History taking, physical examination, diagnostic investigations • Etiology pathophysiology diagnostic tests & management of hearing impairment, infections disorders of balance glaucoma, cataract, corneal disorders, tumors, refractive errors, visual impairment. • Related research studies & Evidence based nursing practice. • Rehabilitation and follow-up.
XIII	15	<p>Geriatric nursing</p> <ul style="list-style-type: none"> • Ageing; Demography, Concepts and theories of ageing • Age related body systems changes.

		<ul style="list-style-type: none"> • Psychosocial Aspects of Aging. • Stress & coping in older adults. • Nursing Assessment-History and Physical assessment. • Medications and elderly. • Common Health Problems & Nursing Management • Psychosocial and Sexual abuse of elderly. • Use of aids and prosthesis • Legal & Ethical Issues.
XIV	10	<p>Management of patients with communicable and sexually transmitted diseases:</p> <ul style="list-style-type: none"> • Review of immune system. • Common Disorders of immune system – HIV/AIDS. • Review of infection process cycle, Etiology, Patho physiology, Clinical manifestations, complications, prognosis, investigation and diagnostic assessment, Treatment modalities of acute diarrhoeal disorders, typhoid fever, hepatitis, tetanus, rabies, malaria, Japanese encephalitis. • Emerging communicable diseases
XV	10 (EF 4)	<p>Emergency, trauma and multi-system organ failure</p> <ul style="list-style-type: none"> • DIC (disseminated intravascular coagulation) • Burns, poisoning • Health assessment-History taking, physical examination, investigation and diagnostic assessment and management of craniocerebral trauma, spinal cord injury and abdominal injuries. • Related research studies. • Evidence based nursing practice. • Rehabilitation and follow-up.

Sl. No	Dept/Unit	No. of Weeks
1.	General Medical Ward	4
2.	General surgical ward	4
3.	ICUs	7
4.	Oncology	2
5.	Emergency Department	2
	Total	19

Student Activities:

- Clinical presentations
- Health Assessment
- Nutritional Assessment
- Health Education related to disease conditions
- Case studies
- Term paper

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

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CLINICAL SPECIALTY –I
CHILD HEALTH (PAEDIATRIC) NURSING-I

Placement : Ist Year

Hours of Instruction

Theory 150 Hours

External Faculty- 50 Hours

Internal Faculty- 100 Hours

Practical-900Hours

Total : 1050 Hours

Course Description

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

Objectives

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

1. Appreciate the history and developments in the field of child health and child health nursing as a specialty.
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Perform physical, developmental, and nutritional assessment of pediatric clients
4. Apply nursing process in providing nursing care to neonates & children
5. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
6. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
7. Describe various recent technologies and treatment modalities in the management of high risk children.

8. Incorporate evidence based nursing practice and identifies the areas of research in the field of pediatric/neonatal nursing
9. Recognize the role of pediatric nurse practitioner as a member of the pediatric and neonatal health team.
10. Teach pediatric nursing to undergraduate students & in-service nurses.

Course Content

Unit	Hours	Content
I	5	<p>Introduction</p> <p>Review: -</p> <p>Historical development of Pediatrics and Pediatric Nursing in India;</p> <p>Current status of child health in India;</p> <p>Trends in Pediatrics and Pediatric Nursing,</p> <p>Ethical and cultural issues in pediatric care</p> <p>Rights of children</p> <p>National health policy for children, special laws and ordinances relating to children.</p> <p>National goals,</p> <p>Five year plans,</p> <p>National health programs related to child health</p>
II	10 EF 5	<p>Assessment of pediatric clients</p> <p>History taking</p> <p>Developmental assessment</p> <p>Physical assessment</p> <p>Nutritional assessment</p> <p>Family assessment</p>
III	5	<p>Hospitalized child</p> <p>Review:- Meaning of hospitalization to the child, preparation for hospitalization, effects of hospitalization on the child and family</p> <p>Stressors and reactions related to developmental stages, play activities for ill hospitalized child.</p>

		Nursing care of hospitalized child and family -principles and practices
IV	10 EF 5	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	10	Growth and Development of children Review: -Factors affecting growth and development 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 Developmental Problems
VI	10 EF 5	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, battered child syndrome, Common behavioral problems and their management, Child guidance clinic.
VII	10 EF 5	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/

		<p>universal immunization program and cold chain,</p> <p>Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding,</p> <p>Health education, nutritional education for children and mother</p> <p>Nutritional programs</p> <p>National and international organizations related to child health,</p> <p>Role of pediatric nurse in the hospital and community.</p>
VIII	10 EF 5	<p>Developmental disturbances and implications for nursing</p> <p>Adjustment reaction to school,</p> <p>Learning disabilities</p> <p>Habit disorders, speech disorders,</p> <p>Conduct disorders,</p> <p>Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia</p>
IX	10	<p>Challenged child and implications for nursing</p> <p>Physically challenged, causes, features, early detection & management</p> <p>Children with cerebral palsy</p> <p>Mentally challenged child.</p> <p>Training & rehabilitation of challenged children</p>
X	5	<p>Crisis and nursing intervention</p> <p>The hospitalized child,</p> <p>Terminal illness & death during childhood</p> <p>Nursing intervention-counseling</p>
XI	5 EF 5	<p>Drugs used in Pediatrics</p> <p>Criteria for dose calculation</p> <p>Administration of drugs, oxygen and blood</p> <p>Drug interactions</p> <p>Adverse effects and their management</p>

XII	40 EF 20	<p>Neonatal Nursing</p> <p>New born baby: Concept, Goals, assessment, principles. - profile and characteristics of the new born, Nursing care of the new born at birth, care of the new born and family, Assessment of gestational age IUGR babies High Risk Newborn: Identification, classification and nursing management. Nursing management of</p> <ul style="list-style-type: none"> • Preterm, term neonate and growth retarded babies. • Post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephelopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia, neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn
XIII	20	<p>IMNCI</p> <p>(Integrated management of neonatal and childhood illnesses) Essential New born care, facility based new born care</p>

Practical Experience

Total = 900 Hours

1 Week = 48Hours

Sl. No	Dept/Unit	No. of Weeks
1.	Pediatric Medical Ward	5
2.	Pediatric Surgical Ward	2
3.	Labor Room/ Maternity ward	1
4.	NICU/Newborn Nursery	8
5.	Community	1
6.	Paed. O.P.D	1
7.	Child guidance clinic	1
	Total	19

- Visit to Creche, Child Guidance Clinic, Anganwadi, Orphanage, Child Care Center, Play school, Special schools for challenged children.

Procedures to be performed/ assisted

- Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment,
- Admission & discharge of neonates
- Feeding - management of breast feeding, artificial feeding, expression of breast milk, NG(Nasogastric) 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 & fixation infusion 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, fumigation
- Collection of specimens
- Setting, Use & maintenance of basic equipment: Ventilator, O2 analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow
- Umbilical catheterization – arterial and venous
- Arterial B P monitoring
- Blood transfusion- exchange transfusion full and partial
- Chest tube insertion
- Endotracheal intubation
- Ventilation

- Assist in surgery

Student Assignments

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

Theory weightage		Practical weightage	
Sessional exams (3)	50%	Ongoing clinical evaluation	40%
Written assignments	25%	Clinical assignments	40%
Seminars	25%	Internal practical examination	20%
Total	100%	Total	100%

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CLINICAL SPECIALTY-1
MENTAL HEALTH (PSYCHIATRIC) NURSING-1

Placement-I Year

Hours of instruction		Resource Persons	
Theory	- 150 Hrs.	Psychiatric Nursing Faculty	-100 Hrs
Practical	- 900 Hrs.	Psychiatrist	-25 Hrs
Total	- 1050 Hrs.	Psychologist	-20 Hrs
		Psychiatric social worker	-5 Hrs

Course Description:

The course is designed to assist students in developing expertise & in depth understanding in the field of psychiatric nursing. It will help the students to acquire knowledge regarding the psychodynamics of human behaviour, epidemiology, manifestations and treatment modalities of various mental disorders, render holistic care to clients in various settings and to function effectively as a nurse specialist among the interdisciplinary team members. It will help the students to appreciate the latest trends and identify researchable areas in the field of psychiatric nursing and utilize research findings in their practice.

Objectives:

At the end of the course, the students:

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 and psychopathology in mental disorders and its implications for psychiatric nursing practice.
4. Demonstrate therapeutic communication skills in all interactions.
5. Establish and maintain therapeutic relationship with individual, groups and families.
6. Apply nursing process in providing holistic care to patients with mental disorders.
7. Carryout counseling and guidance programmes to various types of clients
8. Appreciate the legal and ethical issues pertaining to psychiatric nursing.
9. Demonstrate skills /competencies in nursing management of patients with different mental disorders.
10. Participate in various treatment modalities used for Psychiatric patients.
11. Recognize the role of Psychiatric nurse practitioner as a member of the mental health team.

COURSE CONTENT

UNIT	TIME (HRS)	CONTENT
I	5	<p>INTRODUCTION</p> <ul style="list-style-type: none"> • Review of mental health • Mental health illness continuum • Historical perspectives • Current concepts, trends and issues in Psychiatry • Mental health services in Kerala, India, and abroad. • Scope, issues and challenges in Psychiatric nursing • Principles and standards of -Psychiatric nursing practice • Multidisciplinary approach and role of the Psychiatric nurse • Role of the Psychiatric nurse extended and expanded
II	10 (Psychiatrist 5)	<p>CONCEPTS OF PSYCHOBIOLOGY AND PSYCHOPATHOLOGY</p> <ul style="list-style-type: none"> • The Nervous System • Review of Anatomy • The Brain and Limbic System • Nervous Tissue • Autonomic Nervous System • Neurotransmitters • Neurons endocrinology -Circadian rhythm -Pituitary and thyroid glands • Genetics • Psychopathology • Psycho immunology -Normal Immune Response -Implication for Psychiatric illness
III	12 (Psychologist 5)	<p>THEORIES OF PERSONALITY DEVELOPMENT AND CONCEPTUAL MODELS OF NURSING PRACTICE</p> <ul style="list-style-type: none"> • Personality — an overview • Theories of Personality development and relevance to

		<p>nursing practice</p> <ul style="list-style-type: none"> -Psychoanalytic theory (Freud) -Interpersonal theory (Sullivan) -Psychosocial theory (Erickson) -Cognitive development theory -Moral development theory -Object relation theory <ul style="list-style-type: none"> • Nursing models — Peplau,Roy, Betty Neuman, Jhonson, Roggers. • Behavioural model • Medical model
IV	5	<p>STRESS AND ITS MANAGEMENT</p> <ul style="list-style-type: none"> • 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 • Stress adaptation model
V	10	<p>THERAPEUTIC COMMUNICATION AND INTERPERSONAL RELATIONSHIP</p> <ul style="list-style-type: none"> • Review of communication process, factors affecting communication • Techniques of therapeutic communication • Barriers of communication • Therapeutic attitudes • Therapeutic Nurse - Client relationship • Therapeutic use of self and self awareness Therapeutic impasse and its management • Johari window • Transactional analysis • Assertive communication

<p style="text-align: center;">VI</p>	<p style="text-align: center;">10 (Psychiatrist)</p>	<p>EPIDEMIOLOGY, SYMPTOMATOLOGY AND CLASSIFICATION</p> <ul style="list-style-type: none"> • Epidemiology of common mental illnesses • Clinical manifestations of mental illnesses • Classification of mental illness <p>-ICD -DSM -Indian</p>
<p style="text-align: center;">VII</p>	<p style="text-align: center;">10 (Psychologist 3)</p>	<p>NURSING PROCESS IN PSYCHIATRIC NURSING</p> <ul style="list-style-type: none"> • Mental health assessment: History, Mental Status Examination • Physical and neurological examination • Psychometric assessment • Investigations, Diagnoses and Differential diagnoses • Nursing diagnoses, nursing care plan and evaluation • Documentation- computer assisted • Critical pathways of care
<p style="text-align: center;">VIII</p>	<p style="text-align: center;">20 (Psychologist 5)</p>	<p>GUIDANCE AND COUNSELING</p> <ul style="list-style-type: none"> • Counseling ; definition, concepts, types, models • Principles and techniques of counseling • Role of nurse counselor • Guidance- definition, scope, types and techniques • Organization of guidance service
<p style="text-align: center;">IX</p>	<p style="text-align: center;">10 (Psychiatrist 10)</p>	<p>THERAPIES IN PSYCHIATRY</p> <p>A. Psychopharmacology</p> <ul style="list-style-type: none"> • Historical perspectives • Anti anxiety agents • Anti depressant agents • Mood stabilizers • Anti psychotics

X	6	ORGANIC MENTAL DISORDERS <ul style="list-style-type: none"> • Delirium • Dementia • Organic Amnestic Syndrome • Psychopharmacological interventions and nursing management
XI	8	SUBSTANCE USE DISORDERS <ul style="list-style-type: none"> • Substance use disorders • Substance induced disorders • Classes of Psychoactive substances • Predisposing factors • The Dynamics of Substance Related Disorders • Codependency • Treatment modalities for substance — related disorders and nursing management
XII	10	SCHIZOPHRENIA AND OTHER PSYCHOTIC DISORDERS <ul style="list-style-type: none"> • Nature of the disorder • Predisposing factors and psychopathology • Schizophrenia — types <ul style="list-style-type: none"> -Disorganized Schizophrenia -Catatonic Schizophrenia -Paranoid Schizophrenia -Undifferentiated Schizophrenia -Residual Schizophrenia • Other Psychotic Disorders <ul style="list-style-type: none"> -Schizoaffective disorders -Brief psychotic disorders -Schizophreniform disorders -Psychotic disorder due to a general medical condition. -Substance — induced psychotic disorders • Treatment and nursing management
XIII	8	MOOD DISORDERS <ul style="list-style-type: none"> • Historical perspectives

		<ul style="list-style-type: none"> • Epidemiology and psychopathology • The grief response • Maladaptive responses to loss • Types of mood disorders • Depressive disorders • Manic disorders • Bipolar disorders • Treatment and nursing management
XIV	5	ANXIETY DISORDERS <ul style="list-style-type: none"> • Historical perspectives • Epidemiology and psychopathology • Types • Panic disorders • Generalized anxiety disorders • Phobias • Obsessive compulsive disorders • Post traumatic stress disorders • Anxiety disorders due to general medical condition • Substance induced anxiety disorders • Treatment modalities • Psycho pharmacology and nursing management
XV	4	ETHICAL AND LEGAL ISSUES IN PSYCHIATRY AND PSYCHIATRIC NURSING <ul style="list-style-type: none"> • Ethical considerations and dilemmas • Rights of mentally ill persons • Mental health act • Legal issues in psychiatry • Legal role of nurse

PRACTICAL

Total -900 Hours

1 week - 48 Hours

STUDENT ACTIVITIES

- History taking - Weekly one

- Mental Status Examination - Weekly one
- Nursing care plan - Weekly one
- Psychometric assessment
- Psycho education - 1
- Drug study - 1
- Personality assessment - 1
- Process recording - 2
- Assisting with EEG, CT, MRI
- Therapies — (Participation & Observation)
 - ECT with patient profile
 - Group therapy with patient profile
 - Family therapy with patient profile
 - Psychotherapy with patient profile
 - Counseling with patient profile
 - Milieu therapy/therapeutic Milieu
 - Occupational therapy
 - Recreational therapy
 - Music therapy
- Case presentation - 4
- Case studies - 2
- Bed side clinic - 3
- Project work based on hospital care setting

<u>Method of Evaluation</u>Theory	Weightage
Sessional examinations (3)	50 %
Seminars	25%
Written assignments	25%
Total	100
Practical	
Ongoing clinical evaluation	40%
Internal practical examination	25%
Clinical Assignments	35%
Total	100

SL NO	AREA OF POSTING	NO. OF WEEKS
1	Acute psychiatric ward	4
2	Chronic psychiatric ward	4
3	Psychiatric emergency	2
4	OPD	2
5	Family psychiatry	1
6	Community mental health	2
7	Rehabilitation/ occupational therapy/ Half way home/Day care centre	2
8	De- addiction unit	2
	Total	19

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Note: * Latest Edition

CLINICAL SPECIALITY - I
OBSTETRIC AND GYNAECOLOGICAL NURSING- 1

Placement: 1st year

Hours of Instruction

Theory: 150 hours

Nursing Faculty– 120 hours

External Faculty-30 hours

Practical: 900 hours

Total: 1150 hours.

COURSE DESCRIPTION

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

OBJECTIVES

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

1. Examine 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 current concepts in genetics and embryology.
4. Identify the role of women in the society
5. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.
6. Provide comprehensive nursing care to women during reproductive period and newborns.
7. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynaecological nursing.
8. Identify and analyze the deviations from normal birth process and refer appropriately.
9. Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse
10. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation

11. Describe the role of various types of complementary and alternative therapies in obstetric and gynecological nursing.
12. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynecological nursing.
13. Describe the recent advancement in contraceptive technology and birth control measures.
14. Explain the legal and ethical issues pertaining to obstetric and gynecological nursing.
15. Function as independent midwifery nurse practitioner

Course Content

Units	Hours	Content
I	10	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical and contemporary perspectives ➤ Issues of maternal and child health: Age, Gender, Sexuality, sexual health, Psycho- Socio cultural factors ➤ Status of women in Indian Society ➤ Role of the women in the family & society ➤ Women empowerment ➤ Preventive obstetrics ➤ National health and family welfare programmes related to maternal and child health: health Care delivery system. ➤ National Rural Health Mission-Reproductive child health. ➤ 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. ➤ Complementary therapies in obstetric practice.

<p>II</p>	<p>20 EF6</p>	<p>Human reproduction</p> <p>Review:-</p> <ul style="list-style-type: none"> ➤ Anatomy and physiology of human reproductive system: male and female, Reproductive physiology. ➤ Pelvic floor and female pelvis ➤ Foetal skull ➤ Hormonal cycles, Menarche & Menopause. ➤ Endocrinology in relation to reproduction. ➤ Embryology ➤ Genetics, teratology, prenatal diagnosis and counseling ➤ Preconception care, Preparing families for child bearing & child rearing , planned parenthood.
<p>III</p>	<p>25 EF6</p>	<p>Pregnancy</p> <ul style="list-style-type: none"> • Maternal adaptation :- Physiological, Psychosocial • Diagnosis of pregnancy • Assessment - Maternal and fetal • Maternal assessment: History taking, examination-general, physical and obstetrical. • Identification of high risk, • Foetal assessment – clinical parameters. • Biochemical- Human estriol, Maternal Serum Alfa Feto protein, Acetyl choline esterase (AchE), Triple Test, Aminocentesis, Cordocentesis. Chorionic villus sampling (CVS). • Biophysical -Foetal movement count, Sonography, Cardio tocography, cardio tomography, 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, importance of institutional delivery, choice of birth setting,

		importance and mobilizing of transportation, role of nurse and crisis intervention, identification of high risk pregnancy and referral
IV	25 EF3	<p>Normal Labour</p> <ul style="list-style-type: none"> ➤ Essential factors of labour ➤ Stages and onset <p>First stage: Physiology of normal labour</p> <ul style="list-style-type: none"> • Use of partograph: Principles, use and critical analysis, evidence based practice. • Nursing management <p>Second stage</p> <ul style="list-style-type: none"> • Physiology and intrapartum monitoring • Nursing management • Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) <p>Third stage</p> <ul style="list-style-type: none"> • Physiology and nursing management <p>Fourth stage</p> <ul style="list-style-type: none"> • Observation, critical analysis and nursing management. • Psycho-prophylactic measures in labour • Evidence based practice
V	20 EF2	<p>Normal puerperium</p> <p>Review</p> <ul style="list-style-type: none"> ➤ Physiology of puerperium ➤ Physiology of lactation, exclusive breast feeding, Baby friendly hospital initiative (BFHI) ➤ Assessment of postnatal women. ➤ Minor discomforts and complications of puerperium ➤ Management of mothers during puerperium: Psychosocial adaptation ➤ Role of nurse midwifery practitioner

VI	20 EF1	Normal Newborn Review <ul style="list-style-type: none"> ➤ Physiology and characteristics of normal newborn ➤ Physical and behavioural assessment of newborn ➤ Essential newborn care ➤ Identification of high risk newborn & referral. ➤ Parenting process
VII	10 EF4	Pharmaco-dynamics in obstetrics <ul style="list-style-type: none"> ➤ Drugs used in pregnancy, labour, post partum and newborn ➤ Calculation of drug dose and administration ➤ Anesthesia and analgesia in obstetrics ➤ Roles and responsibilities of midwifery nurse practitioner ➤ Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW
VIII	5 EF3	Abortion <ul style="list-style-type: none"> ➤ Types, causes ➤ Legislations, Clinical rights and professional responsibility ➤ Abortion procedures ➤ Nursing Management
IX	5 EF3	Infertility Review <ul style="list-style-type: none"> ➤ Male and female 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 nurse in infertility management

X	10 EF2	Family Welfare Services Review <ul style="list-style-type: none"> ➤ Population dynamics ➤ Demographic 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. ➤ Family life education. ➤ Evidence based practice. ➤ Information, Education and Communication (IEC) ➤ Management information and evaluation system (MIES) Teaching and supervision of health team members
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Practical Experience

Total = 900 Hours

1 week = 48 hours

Sl.No	Dept/ unit	Weeks
1	Antenatal wards	5
2	Labour Room	5
3	Postnatal Ward	4
4	Family Planning Clinics& OPDs	1
5	PHC/Rural Maternity settings	2
6	Maternity OT	2
	Total	19

Procedures to be Observed

- Diagnostic investigations: amniocentesis, cordocentesis, chorionic villus sampling, ultrasonogram.
- Infertility management: artificial reproduction: artificial insemination, invitro fertilization and related procedures.

Procedures to be assisted

- Medical termination of pregnancy
- Male and female sterilization
- Major and minor operations.

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
- 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.

Observation visit

Infertility centre, 24/7 FRUs

Assignments

- Nursing care study –Antenatal, intranatal, postnatal, neonatal - 4
- Planned health education - 5
- Clinical teaching - 15
- Case Presentation - 5

- Preparation of protocol of management in obstetrical nursing. (AN, IN, PN, NN) - 4
- Log Book

Evaluation Methods

- Assignments
- Theory & Practical Exam
- Ongoing evaluation

Theory	Weightage	Practical	Weightage
Tests (3)	50%	Ongoing evaluation	50%
Assignments	25%	Clinical assignment	25%
Seminars	25%	Int. Practical exam	25%
Total	100%	Total	100%

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Note: * Latest Edition

CLINICAL SPECIALTY – 1
COMMUNITY HEALTH NURSING – 1

Placement–I Year
Hours of instruction

Theory	- 150 hours
External	- 20 Hours
Internal	-130Hours
Practical	- 900 hours
Total	- 1050 hours

Course Description:

This course is designed to assist students in developing expertise and indepth understanding in the field of community health. It will enable the students to acquire knowledge regarding concepts, principles, methods and approaches in community health nursing. It will help the students to learn about epidemiology, environmental health, population dynamic, family health care.

Objectives:

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

1. Review the history and development in the field of community health and community health nursing
2. Analyze the 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 members of the community
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. Apply concepts and principles of epidemiology in the practice of community health nursing
8. Recognize and participate in the management of emergencies, epidemics and disasters
9. Utilize the concept of demography and its application in public health

10. Appreciate legal and ethical issues pertaining to community health nursing care
11. Conduct community health nursing care projects
12. Participate in planning, implementation and evaluation of different national health and family welfare programmes at local, state and national level.
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

COURSE CONTENT:

Unit	Hours	Content
I	10	<p>Introduction</p> <ul style="list-style-type: none"> • Historical development of community health and community health nursing in the world, India • Current status, trends, challenges and scope of community health nursing • Philosophy, aims, objectives, concepts, principles and functions of community health nursing • Community health nursing theories and models • Role of community health nurse at various settings
II	10	<p>Community health nursing process</p> <ul style="list-style-type: none"> • Community identification-concept, definition, purpose, methods • Group dynamics and community participation • Community health nursing process-definition, assessment, community diagnosis • Planning, implementation and evaluation
III	15	<p>Family health care</p> <ul style="list-style-type: none"> • Concept of family, types • Functions of family in health and disease • Family developmental cycle • Developmental tasks of the family

		<ul style="list-style-type: none"> • Family as a basic unit of health service • Theoretical framework for family health care • Tools for family assessment • Family budgeting • Family nursing process • Home visit • Standing orders • Techniques of family nurse contact
IV	30 (Ext-20 Hrs)	Epidemiology <ul style="list-style-type: none"> • History, definition and aims of epidemiology • Measurements in epidemiology • Epidemiologic methods • Dynamics of disease transmission • Levels of prevention • Epidemiology of communicable diseases • Epidemiology of non communicable diseases • Emerging and re-emerging disease epidemics
V	10	Community Nutrition <ul style="list-style-type: none"> • Nutritional problems in community health • Assessment of nutritional status • Nutritional surveillance • Community nutrition programmes • Meal planning for the family
VI	15	Maternal and child health services <ul style="list-style-type: none"> • Maternal health care services • Antenatal, intranatal, postnatal services • Child health services • Integrated management of neonatal and childhood illnesses

VII	15	Population Dynamics and Control <ul style="list-style-type: none"> • Demography • Transition and theories of population growth • National population policy • National population programmes • Population Control • Methods of family planning • Research, census, National family health survey • Vital statistics
VIII	10	Health Education – Changing perspectives: <ul style="list-style-type: none"> • IEC/BCC – definition, principles and strategies • Communication skills • Information and evaluation system • Information Technology in health education • Tele medicine and Tele Nursing • Mass media • Folk media
IX	10	Public Health Laws: <ul style="list-style-type: none"> • Ethical principles in community health nursing • Legal issues in community health nursing
X	25	Environmental Health <ul style="list-style-type: none"> • Changes in ecosystem • Impact of ecological changes on health • Global Warming, green house effect, deforestation • Medical entomology • Disaster Management

Practical Experience

Total = 900 Hours

1 week = 48 hours

Sl. No	Dept/Unit	No. of weeks
1	Preventive clinic, Infectious disease unit, family planning unit, Paediatrics & Neonatology Antenatal & Postnatal unit, Labour room	6 weeks
2	Primary health centre, Community health centre	6 weeks
3	Urban centre	2 weeks
4	Selected community	5 weeks
	Total	19 weeks

Student Activities

- Identification of community leaders and resource persons (community mapping)
- Identification of a selected community (Health Survey, identification of resources)
- Community health nursing process – individual, family, community and special groups
- Planning, implementing need based health programs for the community
- Counseling
- Health education – campaign, exhibition, folk media, preparation of IEC materials
- Organizing and participating in special clinics/ camps and national health and welfare programs – Organize at least one health and family welfare project-mela/fair/exhibition
- Estimation of vital health statistics – exercise
- Drill for disaster preparedness
- Health assessment – adults, elderly, antenatal & postnatal women, children
- Nutrition – Exercise on nutritional assessment – dietary planning, demonstration and education for various age groups
- Filling up of records, reports and registers maintained at sub centre/PHC/CHC
- Assist women in self breast examination

- Conduct antenatal examination
- Conduct vaginal examination
- Conduct deliveries
- Postnatal visits
- Perform Episiotomy and suturing
- Prepare Pap smear
- Conduct insertion/removal of IUCD
- Assist laparoscopic sterilization, vasectomy
- Malarial slide preparation
- Observation visits/field visits to ART centre, RNTCP unit
- Maintain log book for all practical activities

Method of Evaluation

Theory	Weightage
Sessional examinations (3)	50 %
Seminars	25%
Written assignments	25%
Total	100%
Practical	
Ongoing clinical evaluation	30%
Internal practical examination	25%
Clinical Assignments	45%
Total	100%

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Note: * Latest Edition

NURSING MANAGEMENT

Placement: II Year

Hours of Instruction

Theory :150 Hours

Nurse Specialist :100 Hours

External :50 Hours

Practical :200 Hours

Total : 350 Hours

Course Description

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

Objectives

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

1. Formulate 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 and 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. Discuss the planning, supervision and management of nursing workforce for various health care settings.
7. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
8. Identify and analyze legal and ethical issues in nursing administration
9. Describe the process of quality assurance in nursing services.
10. Demonstrate leadership in nursing at various levels.
11. Organize staff development programme.

COURSE CONTENT

Unit	Theory	Content
I	10 *EF5	<p>Introduction</p> <ul style="list-style-type: none"> • Philosophy, purpose, elements, Principles, Concepts of Management-(Review). • Indian Constitution, Indian Administrative system health care delivery system: National, State and Local • Organisation and functions of nursing services and education at National, State, District and institutions: Hospital and Community • Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans
II	10 EF5	<p>Management</p> <p>Functions of administration</p> <p>Planning and control</p> <p>Co-ordination and delegation</p> <p>Decision making – decentralization basic goals of decentralization.</p> <p>Concept of management</p> <p>Nursing management</p> <p>Concept, types, principles and techniques</p> <p>Vision and Mission Statements</p> <p>Philosophy, aims and objective</p> <p>Current trends and issues in Nursing Administration</p> <p>Theories and models</p> <p>Application to nursing service and education</p>
III	15 EF5	<p>Planning</p> <p>Planning process: Concept, Principles, Institutional policies</p> <p>Mission, philosophy, objectives,</p> <p>Strategic planning</p> <p>Operational plans</p> <p>Management plans</p> <p>Programme evaluation and review technique(PERT), Gantt chart,</p> <p>Management by objectives(MBO)</p> <p>Planning new venture</p> <p>Planning for change</p>

		Innovations in nursing Application to nursing service and education
IV	15 EF5	Organisation Concept , principles, objectives, Types and theories, Minimum requirements for organisation, Developing an organizational Structure, levels, organizational Effectiveness and organizational, Climate, Organising nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care, Planning and Organising: hospital, unit and ancillary services(specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) Disaster management: plan, resources, drill, etc Application to nursing service and education
V	15 EF5	Human Resource for health Staffing Philosophy Norms: Staff inspection unit(SIU), Bajaj Committee, High power committee, Indian nursing council (INC) Estimation of nursing staff requirement- activity analysis Various research studies Recruitment: credentialing, selection, placement, promotion Retention Personnel policies Termination Staff development programme Duties and responsibilities of various category of nursing personnel Applications to nursing service and education

<p>VI</p>	<p>15 EF5</p>	<p>Directing</p> <p>Roles and functions</p> <p>Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories</p> <p>Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations</p> <p>Delegation; common delegation errors</p> <p>Managing conflict: process, management, negotiation, consensus</p> <p>Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager</p> <p>Occupational health and safety</p> <p>Application to nursing service and education</p>
<p>VII</p>	<p>10</p>	<p>Material management</p> <p>Concepts, principles and procedures</p> <p>Planning and procurement procedures : Specifications</p> <p>ABC analysis,</p> <p>VED (very important and essential daily use) analysis</p> <p>Planning equipments and supplies for nursing care: unit and hospital</p> <p>Inventory control</p> <p>Condemnation</p> <p>Application to nursing service and education</p>
<p>VIII</p>	<p>15 EF5</p>	<p>Controlling</p> <p>Quality assurance – Continuous Quality Improvement</p> <p>Standards</p> <p>Models</p> <p>Nursing audit</p> <p>Performance appraisal: Tools, confidential reports, formats, Management, interviews</p> <p>Supervision and management: concepts and principles</p> <p>Discipline: service rules, self discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings enquiry etc</p> <p>Self evaluation or peer evaluation, patient satisfaction, utilization review</p>

		Application to nursing service and education
IX	15 EF5	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 EF5	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
XII	10 EF5	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

***EF- External Faculty**

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 Organization Chart
5. Developing nursing standards/protocols for various units
6. Design a layout plan for specialty 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, nurse's notes, official letters, curriculum vitae, presentations etc.
16. Prepare a plan for disaster management
17. Observation visit to a multispecialty teaching hospital and College and School of Nursing

Methods of Teaching

- Lecture cum discussion
- Seminar / Presentations
- Workshop

Methods of evaluation

- Tests
- Presentation
- Written assignments

Internal Assessment Techniques	NO	Weightage (%)
Tests	3	50
Assignments		25
Seminar/presentations		25
Total		100%

Assignments

Theory

- Statement of Philosophy, mission, vision and objective of a hospital.
- Prepare Job Descriptions of Various Categories of Nursing Personnel.
- Prepare Budget estimate for Nursing Department.
- Compute Staffing Requirement of hospital (Yearly, Monthly, Weekly.)
- Performance Appraisal Format for Nursing Staff.

Practical

Nursing Rounds	5
Clinical Teaching of Students	1
Staff Development Programme	1
Nursing Care Conference	1

Clinical Posting

Various Wards/ICUs of Hospital. - 4 Weeks
Office of Nursing Superintendent / Nursing Officer- 1 week

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

Placement : II year

Hours of Instruction

Theory : 150 hours.

Nursing Faculty:-125 hrs

External Faculty:-25 hrs

Practical : 1450 hours.

Total : 1600 hours.

Course Description

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

Objectives

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

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, patho-physiology 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.

CONTENT OUTLINE

Unit	Hours	Content
1	5	<p>Introduction:</p> <ul style="list-style-type: none"> • Historical development, trends and issues in the field of cardiology. • Cardio vascular and thoracic conditions – major health problem. • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in cardio vascular and thoracic nursing(to be incorporated in all the units)
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> • Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc • Health promotion, disease prevention, Life style modification • National health programs related to cardio vascular and thoracic

		<p>conditions</p> <ul style="list-style-type: none"> • Alternate system of medicine • Complementary therapies
III	5	<p>Review of anatomy and physiology of cardio vascular and respiratory system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. • Coronary circulation, Foetal Circulation • Hemodynamics and electro physiology of heart. • Bio-chemistry of blood in relation to cardio pulmonary function
IV	20 EF5	<p>Assessment and Diagnostic Measures:</p> <p>History taking</p> <p>Physical assessment</p> <ul style="list-style-type: none"> • 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

<p>V</p>	<p>25 EF4</p>	<ul style="list-style-type: none"> • Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data • Pulmonary function test: Bronchoscopy and graphies • Interpretation of diagnostic measures • Nurse’s role in diagnostic tests <p>Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. Interpretation and role of nurse.</p> <p>Cardiac disorders and nursing management:</p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, newer treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Myocardial Infarction, Congestive cardiac failure • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block <p>Associated illnesses</p>
<p>VI</p>	<p>10 EF3</p>	<p>Altered pulmonary conditions</p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • Bronchitis • Bronchial asthma • Bronchiectasis

		<ul style="list-style-type: none"> • Pneumonias • Lung abscess, lung tumour • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease (conditions leading to) • Cor pulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension <p>Vascular disorders and nursing management</p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • 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
<p>VII</p>	<p>10 EF3</p>	<p>Vascular disorders and nursing management</p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • 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
		<p>VIII</p>
	<p>10 EF3</p>	<p>Cardio thoracic emergency interventions</p> <p>CPR- BLS and ALS</p> <p>Use of ventilator, defibrillator , pacemaker</p> <p>Post resuscitation care.</p> <p>Care of the critically ill patients</p> <p>Psychosocial and spiritual aspects of care</p> <p>Stress management; ICU psychosis</p>

		Role of nurse
IX	10	Nursing care of a patient with obstructive airway
	EF3	Assessment Use of artificial airway Endotracheal intubation, tracheostomy and its care Complication, minimum cuff leak, securing tubes
X	10	Oxygen delivery systems.
	EF4	Nasal Cannula Oxygen mask, Venturi mask Partial rebreathing bag Bi-PAP and C-PAP masks Uses, advantages, disadvantages, nursing implications of each.
XI	10	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
XII	20	Congenital Heart Diseases
		Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> • Embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger’s complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia.

<p>XIII</p>	<p>5</p>	<ul style="list-style-type: none"> • Coarctation of aorta. • Ebstein’s anomaly • Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome. <p>Pharmacology</p> <p>Review</p> <p>Pharmacokinetics</p> <p>Analgesics/Anti inflammatory agents</p> <p>Antibiotics, antiseptics</p> <p>Drug reaction & toxicity</p> <p>Drugs used in cardiac emergencies</p> <p>Blood and blood components</p> <ul style="list-style-type: none"> • Antithrombolytic agents • Inotropic agents • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vaso dilators • ACE inhibitors. • Anticoagulents • Antiarrhythmic drugs. • Anti hypertensives • Diuretics • Sedatives and tranquilizers. • Digitalis. • Antilipemics <p>Principles of drug administration, role and responsibilities of nurses and care of drugs</p>
<p>XIV</p>	<p>5</p>	<p>Nursing Care of patient undergoing cardio thoracic surgery</p> <p>Indications, selection of patient</p> <p>Preoperative assessment and preparation; counseling.</p> <p>Intra-operative care: Principles of open heart surgery, equipment,</p>

	<p>anesthesia, cardiopulmonary by pass.</p> <p>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.</p> <p>Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc</p> <p>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.</p> <p>Chest physiotherapy</p> <p>Nursing interventions- life style modification, complementary therapy/alternative systems of medicine.</p> <p>Intermediate and late post operative care after CABG, valve surgery,others.</p> <p>Follow up care</p> <p>Cardiac rehabilitation</p> <p>Process</p> <p>Physical evaluation</p> <p>Life style modification</p> <p>Physical conditioning for cardiovascular efficiency through exercise</p> <p>Counseling</p> <p>Follow up care</p> <p>Intensive Coronary Care Unit/intensive cardio thoracic unit:</p> <p>Quality assurance</p> <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome <p>Nurse's role in the management of I.C.C.U and ICTU.</p>
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		Mobile coronary care unit. Planning inservice educational programme and teaching
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Practicals

Total – 1450 Hours

1 Weeks = 48 Hours

SL. No	Dept/ Unit	No.of weeks
1.	Cardio thoracic- Medical	4
	-Surgical	4
2	OT (cardiac & Thoracic)	4
3	Diagnostic Lab including cath Lab	2
4	ICCU	5
5	ICU	4
6	CCU	4
7	Paediatric Intensive Care	2
8	OPD	1
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

Essential Nursing Skills

Procedures to be 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 to be 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 to be Performed

1. Preparation of assessment tool for CT client (Cardiac, thoracic and vascular).
2. ECG – Recording, Reading, Identification of abnormalities

3. Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent, through ET and tracheostomy tube, manual resuscitation bag.
4. Mechanical ventilation
5. Spirometer
6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including – Breathing Exercises, Coughing Exercises, Percussion & Vibration
11. Suctioning – Oropharyngeal, nasotracheal, Endotracheal
12. Through tracheostomy tube
13. Artificial airway cuff maintenance
14. CPR
15. Care of client on ventilator
16. Identification of different – Arrhythmias, abnormal pulses, respirations, B.P. Variation, Heart sounds, Breath sounds
17. Pulse oxymetry
18. Introduction of intracath
19. Bolus I.V. Injection
20. Life line
21. Maintenance of “Heplock”
22. Subcutaneous Injection of Heparin
23. Obtaining leg measurements to detect early swelling in thrombophlebitis
24. Identification of Homans sign
25. Buerger – Allen exercises

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Note: * Latest Edition

CLINICAL SPECIALITY – II

MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

Placement: II Year

Hours of instruction

Theory: 150 hours

Nursing Faculty:-115 hrs

External Faculty:-35 hrs

Practical: 1450 hours

Total : 1600 hours

Course Description

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

Objectives

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

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

14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing
16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

Content Outline

Unit	Hours	Content
I	5	<p>Introduction to Critical Care Nursing</p> <p>Historical review- Progressive patient care(PPC)</p> <p>Review of anatomy and physiology of vital organs, fluid and electrolyte balance, Concepts of critical care nursing, Principles of critical care nursing, Scope of critical care nursing, Critical care unit set up including equipments supplies, use and care of various type of monitors & ventilators,flow sheets.</p>
II	10	<p>Concept of Holistic care applied to critical care nursing practice</p> <p>Impact of critical care environment on patients:-</p> <ul style="list-style-type: none"> • Risk factors, Assessment of patients, Critical care psychosis, prevention & nursing care for patients affected with psycho physiological & 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, <p>Stress and burnout syndrome among health team members.</p> <p>Prevention & nursing care for patients affected with psycho physiological & psychosocial problems of critical care unit.</p> <p>Caring for the patient's family, family teaching..</p>
III	14	<p>Review</p> <p>Pharmacokinetics</p> <p>Analysics/Anti inflammatory agents</p> <p>Antibiotics,antiseptics</p> <p>Drug reaction & toxicity</p> <p>Drugs used in critical care unit (inclusive of ionotropic , life saving drugs)</p> <p>Drugs used in various body systems</p> <p>IV fluid and electrolytes</p> <p>Blood and blood components</p> <p>Principles of drug administration ,role of nurses and care of drugs.</p>

IV	5	<p>Pain Management</p> <p>Pain & Sedation in Critically ill patients</p> <p>Theories of pain, Types of pain, Pain assessment, Systemic responses to pain</p> <p>pain management-pharmacological and non-pharmacological measures</p> <p>Placebo effect</p>
V	5	<p>Infection control in intensive care unit</p> <p>Nosocomial infection in intensive care unit; methicilline resistant, staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff</p>
VI	10 EF3	<p>Gastrointestinal System</p> <p>Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis</p>
VII	10 EF3	<p>Renal System</p> <p>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</p> <p>Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venus hemodialysis, Renal Transplantation</p>
VIII	10 EF4	<p>Nervous System</p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:- Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuilleinBarre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury</p>

		Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy, Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome
IX	5 EF3	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 EF4	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 EF6	Cardiovascular emergencies <ul style="list-style-type: none"> • Principles of Nursing in caring for patient's with Cardiovascular disorders • Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, • Coronary angiography, Nuclear medicine studies • Causes, Pathophysiology, Clinical types, Clinical features Diagnostic Prognosis, Management : Medical, Surgical &

<p style="text-align: center;">XII</p>	<p style="text-align: center;">15 EF4</p>	<p>Nursing management of:-Hypertensive crisis, Coronary artery disease,Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, Endocarditis, Heart failure, Cardio pulmonary resuscitation BCLS/ ACLS</p> <ul style="list-style-type: none"> • Management Modalities: Thrombolytic therapy, Pacemaker –temporary & permanent, Percutaneous transluminal coronary, angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation
		<p>Respiratory System</p> <ul style="list-style-type: none"> • 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, Clinical types, Clinical features,Prognosis, Management: Medical, Surgical and Nursing, management of Common pulmonary disorders:- Pneumonia, Status asthmaticus, interstitial drug disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax • Management Modalities:-Airway Management

<p>XIII</p>	<p>7 EF2</p>	<ul style="list-style-type: none"> • Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations • Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic, surgeries <p>Burns</p> <ul style="list-style-type: none"> • Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical and Nursing management of burns • Fluid and electrolyte therapy – calculation of fluids and its administration • Pain management • Wound care • Infection control • Prevention and management of burn complications • Grafts and flaps • Reconstructive surgery • Rehabilitation
<p>XIV</p>	<p>5 EF2</p>	<p>Obstetrical Emergencies</p> <ul style="list-style-type: none"> • Causes, Pathophysiology, Clinical types, clinical features,diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Peurperal sepsis, Obstetrical shock
<p>XV</p>	<p>10 EF4</p>	<p>Neonatal Paediatric emergencies</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features,diagnostic, Prognosis , Management: medical, surgical and Nursing, management of <ul style="list-style-type: none"> ○ Neonatal emergencies • Asphyxia Neonatarum, Pathological Jaundice in Neonates,

XVI	2	<ul style="list-style-type: none"> • Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- <ul style="list-style-type: none"> ○ Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus ○ Pediatric emergencies • Dehydration, Acute broncho pneumonia, Acute respiratory distress, syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus <p>Legal and ethical issues in critical care-Nurse's role</p> <ul style="list-style-type: none"> • Brain death • Organ donation & Counselling • Do Not Resuscitate(DNR) • Euthanasia • Living will <p>Quality assurance</p> <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Staffing • Design of ICU/CCU
XVII	2	<p>Quality assurance</p> <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Staffing • Design of ICU/CCU

Practical

Total = 1450 Hours

1 Week = 48 Hours

SL.NO	Dept/ Unit	No .of Weeks
1	Burns ICU	2
2	Medical I.C.U	6
3	Surgical I.C.U	12

4.	CCU	2
5	Emergency Department	3
6	Dialysis Unit	2
7	Transplant Room	2
8	Paediatric/NICU	1
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

ESSENTIAL CRITICAL CARE NURSING SKILLS

I. Procedures to be observed

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

II. Procedures to be 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 to be Performed

1. Airway management

a. Application of oropharyngeal airway

b. Oxygen therapy

c. CPAP (Continuous Positive Airway pressure)

d. Care of tracheostomy

e. Endotracheal extubation

2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG

3. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.

4. Gastric lavage

5. Assessment of critically ill patients

Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities

6. Admission & discharge of critically ill patients

7. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education.

8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.

9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.

10. Setting up dialysis machine and starting, monitoring and closing dialysis

11. Procedures for prevention of infections:

Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.

12. Collection of specimen.

13. Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

IV Other Procedures (If any):

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CLINICAL SPECIALITY-II
MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement : II Year

Hours of Instruction

Theory : 150 hours

Nursing Faculty:-125hrs

External Faculty:-25hrs

Practicals : 1450 hours

Total : 1600 hours

Course Description

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

Objectives

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care.
9. Appreciate the role of alternative systems of medicine in care of cancer patients.
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies
12. Counsel the patients with cancer and their families

13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team.
15. Collaborate with other agencies and utilize resources in caring for cancer patients.
16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

Content outline

UNIT	HOURS	CONTENT
I	4	<p>Introduction</p> <ul style="list-style-type: none"> • Epidemiology-Incidence, Prevalence – Global, National, State and Local • Disease burden, concept of cancer, risk factors • Historical perspectives • Trends and issues • Principles of cancer management • Roles and responsibilities of oncology nurse
II	5 EF5	<p>The Nature of Cancer</p> <ul style="list-style-type: none"> • Normal cell biology • The Immune system • Pathological and pathophysiological changes in tissues <ul style="list-style-type: none"> ○ Biology of the cancer cell ○ Clone formation Transformation ○ Tumor stem lines ○ Structure of a solid tumor ○ Products produced by the tumor ○ Systemic effects of tumor growth
111	4	<p>Etiology of Cancer</p> <ul style="list-style-type: none"> • Carcinogenesis • Theories of cancer causation • Risk factors • Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue

<p style="text-align: center;">IV</p>	<p style="text-align: center;">10 EF5</p>	<p style="text-align: center;">proliferation</p> <ul style="list-style-type: none"> • Hormone changes, diet, emotional factors. <p>Diagnostic Evaluation</p> <ul style="list-style-type: none"> • Health assessment: History taking, physical examination, • Staging and grading of tumors, • TNM Classification • Common diagnostic tests <ul style="list-style-type: none"> ○ Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay ○ Cytology:Fine needle aspiration cytology(FNAC) ○ Histopathology: Biopsy ○ Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography(PET), Radio nuclide imaging, Functional metabolism imaging ○ Endoscopies <p>Nurses responsibilities in diagnostic measures</p>
<p style="text-align: center;">V</p>	<p style="text-align: center;">10</p>	<p>Levels of prevention and care</p> <ul style="list-style-type: none"> • Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer • Self examination-Oral, Breast, Testicular • Secondary prevention – early diagnosis. • Screening • Tertiary prevention – disability limitation, • Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc • Patient and family education, • Discharge instruction, follow-up care and use of community resources.

VI	25 EF10	<p>Cancer Treatment Modalities and Nurse's Role</p> <ul style="list-style-type: none"> • <i>Surgery</i> <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances • <i>Chemotherapy</i> <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions • <i>Radiation Therapy</i> <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments:Linear accelerator,cobalt, Implants, Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy – • External radiotherapy • Internal radiotherapy – unsealed, Sealed sources. • Effectiveness of radiotherapy-Radiosensitivity, treatment effects • Complications of radiotherapy
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VII	10	<ul style="list-style-type: none"> • Radiation safety: Standards of Bhabha Atomic Research Centre(BARC) <ul style="list-style-type: none"> ▪ Bone Marrow Transplantation/Stem Cell Transplantation <ul style="list-style-type: none"> • Types, Indications, Transplantation procedure, complications and nursing management • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues ▪ Immunotherapy (Biotherapy) <ul style="list-style-type: none"> ▪ Concepts and Principles ▪ Classification of agents ▪ Treatment and applications ▪ Gene Therapy <ul style="list-style-type: none"> ▪ Current Concepts and practices ▪ Alternative and Complementary Therapies <ul style="list-style-type: none"> ▪ Current Practices <p>Pain management:- Theories, types and</p> <ul style="list-style-type: none"> • Nature of cancer pain • Pathophysiology of pain • Pain threshold <p>Assessment of pain</p> <ul style="list-style-type: none"> • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient controlled analgesia(PCA) • Other invasive techniques of pain control • Recent developments in Cancer pain <p>Non- Pharmacological pain relief technique-</p>
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		<ul style="list-style-type: none"> • Complementary therapies(Music, massage, meditation, relaxation techniques, biofeed back etc) • Psychological intervention in pain control • Alternative system of medicines <p>Role of nurse</p>
VIII	5	<p>Palliative care</p> <p>Definition and scope, philosophy</p> <p>Concept and elements of palliative care</p> <p>Global and Indian perspective of palliative care</p> <p>Quality of life issues</p> <p>Communication skill</p> <p>Nursing perspective of palliative care and its elements</p> <p>Home care</p> <p>Hospice care</p> <p>Role of nurse in palliative care</p>
IX	2	<p>Infection control:</p> <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care • Standard safety measures
X	30	<p>Nursing Care of Patients With Specific Malignant Disorders</p> <ul style="list-style-type: none"> ▪ Malignancies of G.I. system-oral, oesophagus, stomach, rectal,liver & pancreas, care of ostomies/stoma ▪ Respiratory malignancies, ▪ Genito urinary system malignancies- prostate Bladder, renal, testicular malignancies, Gynecological malignancies-cervix, uterus, ovary , Hematological malignancies-Lymphomas, Leukemias. ▪ Malignancies of musculoskeletal system, Endocrine malignancies ▪ Skin

		<ul style="list-style-type: none"> ▪ Head and Neck -brain tumors, ▪ Other malignancies – Breast cancer, AIDS related Malignancies(Kaposi's Sarcoma)
<p style="text-align: center;">XI</p>	<p style="text-align: center;">10</p>	<p>Paediatric malignancies</p> <ul style="list-style-type: none"> ▪ Leukemia, Lymphoma, Neuro- blastoma ▪ Wilm’s tumor, Soft tissue sarcoma, Retinoblastoma ▪ Nursing Management of children with Paediatric Malignancies
<p style="text-align: center;">XII</p>	<p style="text-align: center;">15</p>	<p>Nursing Management of Physiological Conditions and Symptoms of Cancer Patient</p> <ul style="list-style-type: none"> ▪ Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations ▪ Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop. <p>Other symptoms</p> <ul style="list-style-type: none"> ▪ Dyspepsia & hiccup, dyspnoea ▪ intestinal obstruction, ▪ Fungating wounds, ▪ Anxiety & depression, ▪ insomnia, ▪ Lymph edema <p>Impact of cancer on sexuality:</p> <ul style="list-style-type: none"> ▪ Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient. ▪ Nursing management of cancer patients experiencing sexual dysfunction ▪ Sexual counseling

<p>XIII</p>	<p>10 EF5</p>	<p>Cancer Emergencies</p> <ul style="list-style-type: none"> ▪ Disseminated intravascular coagulation(DIC) ▪ Malignant pleural effusion ▪ Neoplastic cardiac tamponade and septic shock spinal cord compression ▪ Superior venacava syndrome ▪ Metabolic emergency: hyper and hypo calcemia. ▪ Surgical emergency ▪ Urological emergency ▪ Hemorrhage ▪ Organ obstruction ▪ Brain metastasis ▪ Nurses role in managing oncologic emergencies
<p>XIV</p>	<p>8</p>	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> ▪ Psychological responses of patients with cancer ▪ Psychosocial assessment – ▪ Crisis intervention, coping mechanisms ▪ Stress management, spiritual/cultural care and needs ▪ Counseling: individual and family ▪ Maximizing quality of life of patient and family <p>Ethical, moral and legal issues-</p> <ul style="list-style-type: none"> ▪ End of life care ▪ Grief and grieving process ▪ Bereavement support ▪ Care of Nurses who care for the dying.
<p>XV</p>	<p>2</p>	<p>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc</p> <ul style="list-style-type: none"> ▪ Practice Standards of oncology nursing • Policies and Procedures <p>Establishing Standing orders and Protocols</p> <p>Quality Assurance Programme in oncology units</p> <ul style="list-style-type: none"> • Nursing audit

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Clinical Experience

Total Hours-1450

1 Week= 48 hours

Sl.No	Dept./Unit	No. of weeks
1.	Medical oncology ward	6
2.	Surgical oncology ward	6
3.	Bone marrow transplant unit	2
4.	Operation theatre	2
5.	Radiotherapy unit	2
6.	Chemotherapy unit	4
7.	OPD and pain clinic	2
8.	Paediatric oncology ward	2
9.	Palliative care ward	2
10.	Community oncology	1
11.	Hospice	1
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

Procedures to be 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

Procedures to be assisted

1. IV cannulation – Open method
2. Chemotherapy
3. Radiotherapy – Brachytherapy – Low Density Radiation, High Densit 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 to be 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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Note: * Latest Edition

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement : II Years

Hours of Instruction

Theory – 150 Hours

Nursing Faculty:-110hrs

External Faculty:-40hrs

Practical- 1450 Hours

Total : 1600 Hours

Course Description

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

Objectives

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

1. Appreciate trends and issues related to Neurology and Neurosurgical Nursing.
2. Review the anatomy and physiology of Nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with Neurological and Neurosurgical disorders
4. Perform Neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of Neuroscience nursing
6. Describe the various drugs used in neurosciences and nurses responsibility
7. Assist in various therapeutic and surgical procedures in Neuroscience nursing.
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.

11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing
13. Organise and conduct inservice education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> • Introduction to neuroscience(neurological and neurosurgical) nursing • History-Development in neurological and neurosurgical nursing, Service & education • Emerging trends and issues in neurology and Neurosurgery 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	<p>Epidemiology</p> <ul style="list-style-type: none"> • Major health problems- • Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. • Health promotion, disease prevention, lifestyle modification and its implications to nursing. • Alternate system of medicine/complementary therapies
III	10	<p>Review of Anatomy and physiology</p> <ul style="list-style-type: none"> • Embryology • Structure and functions of Nervous system- CNS, ANS,

		<p>cerebral circulation , cranial and spinal nerves and reflexes, motor and sensory functions.</p> <ul style="list-style-type: none"> • Sensory organs
IV	15 EF4	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> • 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 evoked potentials, somatosensory evoked potentials • Ultrasound studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. <p>Interpretation of diagnostic measures Nurse’s role in diagnostic tests</p>
V	5	<p>Meeting Nutritional needs of neurological patients</p> <ul style="list-style-type: none"> ▪ Basic nutritional requirements ▪ Metabolic changes following injury and starvation ▪ Nutritional assessment ▪ Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs

		<ul style="list-style-type: none"> ▪ Special metabolic and electrolyte imbalances ▪ Chronic fatigue syndrome
VI	5	<p>Drugs used in neurological and neurosurgical disorders</p> <ul style="list-style-type: none"> ▪ Classification ▪ Indications, contraindications, actions and effects, toxic effects <p>Role of nurse</p>
VII	10 EF3	<p>Traumatic conditions.</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness
VIII	10 EF3	<p>Cerebro vascular disorders.</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Stroke & arterio venous thrombosis. • Arterio venous fistula. • Brain tumours • Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.
IX	10 EF5	<p>Degenerating and demyelinating disorders</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, wilson’s disease,essential tremors • Dementia. • Parkinson’s disease. • Multiple sclerosis. • Alzemier’s

<p>X</p>	<p>10 EF5</p>	<p>Neuro infections</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Neuro infections <ul style="list-style-type: none"> • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess.
<p>XI</p>	<p>10 EF2</p>	<p>Paroxysmal disorders.</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Epilepsy and seizures. • Status epilepticus. • Syncope. • Menier’s syndrome. • Cephalgia.
<p>XII</p>	<p>10 EF5</p>	<p>Developmental disorders.</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Hydrocephalus. • Craniosynostosis. • spina bifida- Meningocele, Meningomyelocele encephalocele • syringomyelia. • Cerebro vascular system anomalies. • Cerebral palsies. • Down’s syndrome

XIII	10 EF5	Neuro muscular disorders. <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Polyneuritis – G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell’s palsy. • Menier’s disease • Carpal tunnel syndrome • Peripheral neuropathies
XIV	5 EF2	Neoplasms – surgical conditions. <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Space occupying lesions -types • Common tumors of CNS
XV	5	Other disorders <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Metabolic disorders- diabetes insipidus, metabolic encephalopathy • Sleep disorders • Auto immune disorders- multiple sclerosis, inflammatory myopathies
XVI	10 EF4	Neuro emergencies <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Increased intracranial pressure • Unconscious

		<ul style="list-style-type: none"> • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents
XVII	5 EF2	<p>Rehabilitation.</p> <ul style="list-style-type: none"> • Concept and Principles of Rehabilitation. • Factors affecting quality of life and coping • Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain • Physiotherapy. • Counselling • Care giver's role <p>Speech & Language. Neurogenic communication disorders, Speech Therapy</p>
XVIII	5	<p>Ethical and legal issues in neuroscience nursing</p> <ul style="list-style-type: none"> • Brain death and organ transplantation • Euthanasia • Negligence and malpractice • Nosocomial infections
XIX	5	<p>Quality assurance in neurological nursing practice</p> <ul style="list-style-type: none"> • Role of advance practitioner in neurological nursing • Professional practice standards • Quality control in neurologic nursing • Nursing audit • Neuro ICU <ul style="list-style-type: none"> • Philosophy, aims and objectives • Policies, staffing pattern, design and physical plan of neuro ICU • Team approach, functions • Psychosocial aspects in relation to staff and clients of neuro ICU • In-service education.

Practical

Total =1450 Hours

1 Week = 48 Hours

SL.No	Dept/ Unit	Weeks
1.	O.P.D	1
2.	Casualty	2
3.	Diagnostics	1
4.	Neuro Psychiatry	2
5.	Pediatric Neuro ward	2
6.	Neuro Surgical Ward	3
7.	Head Injury Ward	3
8.	I.C.U Nero Medicine	4
9	I.C.U Nero Surgical	4
10	Neuro Medical Ward	4
11	Rehabilitation	2
12	OT	2
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

ESSENTIAL NEURO NURSING SKILLS

I. Procedures to be 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

II. Procedures to be assisted

1. Advanced Cardiac life support
2. Lumbar Puncture
3. Biopsies – muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion
7. IV cannulation – open method
8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cerebral angiography
14. Myelography
15. Neuro surgeries

III. Procedures to be 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 if any:

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- ❖ Lewis. Medical Surgical Nursing Assessment & Management of Problems, 7th Edn. Mosby Publishers.
- ❖ Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7th Edn. Saunders, Missouri.

Note: * Latest Edition

CLINICAL SPECIALITY – II

MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING

Placement : II Year

Hour of Instruction

Theory : 150 Hours

Nursing Faculty:-105hrs

External Faculty:-45hrs

Practical : 1450 Hours

Total : 1600 Hours

Course Description

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

Objectives

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

1. Appreciate trends and issues related to nephro and urological nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
3. Perform physical, psychosocial & spiritual assessment.
4. Assist in various diagnostic, therapeutic and surgical interventions.
5. Provide comprehensive nursing care to patients with nephro and rological conditions.
6. Describe the various drugs used in nephro and urological conditions and nurses responsibility.
7. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions.

8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures.
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
12. Discuss the legal and ethical issues in nephro and urological nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers.
14. Appreciate the role of alternative system of medicine in the care of patient.
15. Incorporate evidence based nursing practice and identify the areas of research in the field of nephro and urological nursing.
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit.
18. Develop standards of nephro urological nursing practice.

COURSE CONTENT

Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ▪ Historical development: trends and issues in the field of nephro and urological nursing. ▪ Nephro and urological problems ▪ Concepts, principles & nursing perspectives ▪ Ethical and legal issues ▪ Evidence based nursing and its application in nephro & urological nursing (to be incorporated in all the units)
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ▪ Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders. ▪ Risk factors associated with nephro and urological conditions - Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations.

		<ul style="list-style-type: none"> ▪ Health promotion, disease prevention, life style modification and its implications to nursing. ▪ Alternate system of medicine/complementary therapies
III	5	<p>Review of anatomy and physiology of urinary system</p> <ul style="list-style-type: none"> ▪ Embryology ▪ Structure and functions ▪ Renal circulation ▪ Physiology of urine formation ▪ Fluid and electrolyte balance ▪ Acid base balance ▪ Immunology specific to kidney
IV	20 EF12	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> ▪ History taking ▪ Physical assessment, psychosocial assessment ▪ Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, ▪ Diagnostic tests-urine studies, blood chemistry, radiological procedures-KUB, IVP, CT scan nephrotomogram, retrograde pyelogram, renal arteriogram, renal ultrasound, 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 EF5	<p>Renal immunopathy/Immunopathology</p> <ul style="list-style-type: none"> ▪ General Concept of immunopathology. ▪ Immune mechanism of glomerular vascular disease. ▪ Role of mediator systems in glomerular vascular disease.

<p>VI</p>	<p>15 EF5</p>	<p>Urological Disorders and Nursing Management</p> <ul style="list-style-type: none"> ▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical & nursing management of ▪ Urinary tract infections- pyelonephritis, lower urinary tract infections. ▪ Disorders for ureters, bladder and urethra. ▪ Urinary tract infections. ▪ Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux. ▪ Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities. ▪ Benign prostrate hypertrophy(BPH). ▪ Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters. ▪ Urethral disorders- tumours, trauma, congenital anomalies of ureters.
<p>VII</p>	<p>25 EF5</p>	<p>Glomerular disorders and nursing management</p> <ul style="list-style-type: none"> ▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of ▪ Glomerulo 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. ▪ Congenital disorders. ▪ Hereditary renal disorders.
<p>V111</p>	<p>10 EF4</p>	<p>Management of Renal emergencies</p> <ul style="list-style-type: none"> ▪ Anuria ▪ Acute Renal failure

		<ul style="list-style-type: none"> ▪ Poisoning ▪ Trauma ▪ Urine retention ▪ Acute graft rejection ▪ Hematuria ▪ Nurse's role
1X	10	Drugs used in urinary disorders <ul style="list-style-type: none"> ▪ Classification ▪ Indications, contraindications, actions & effects, toxic effects ▪ Role of nurse.
X	10 EF4	Dialysis <ul style="list-style-type: none"> ▪ Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> • Hemodialysis- vascular access sites- temporary and permanent • Peritoneal dialysis ▪ Dialysis Procedures- steps, equipments, maintenance. ▪ Role of nurse – pre dialysis, intra and post dialysis, ▪ Complications ▪ Counseling ▪ Patient education ▪ Records and reports.
XI	10 EF6	Kidney transplantation <ul style="list-style-type: none"> ▪ 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, Urological, cardiovascular, liver and neurological, infectious complication.

		<ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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 EF4	Pediatric urinary disorders <ul style="list-style-type: none"> ▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of children with Renal Diseases -UTI, ureteral reflux, glomerulonephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolytic uraemic syndrome. Benign recurrent haematuria, nephropathy, wilms tumour.
XIV	5	Critical care units- dialysis , KTP unit <ul style="list-style-type: none"> ▪ Philosophy, aims and objectives ▪ Policies, staffing pattern, design and physical plan of Dialysis and KTP units, ▪ Team approach, functions, ▪ Psychosocial aspects in relation to staff and clients of ICU, dialysis unit, ▪ In-service education, ▪ Ethical and legal issues.
XV	5	Quality assurance in nephrological nursing practice <ul style="list-style-type: none"> ▪ Role of advance practioner in nephrological nursing. ▪ Professional practice standards ▪ Quality control in nephrological nursing ▪ Nursing audit.

Practicals

Total = 1450 Hours

1 Week = 48 Hours

SL.No	Dept/Unit	Weeks	Hours
1.	Nephrology Ward	6	288
2.	Pediatrics	2	96
3.	Critical Care Unit	2	96
4.	Urology Ward	6	288
5.	Dialysis Unit	4	192
6.	Kidney Transplantation Unit	2	96
7	Uro OT	2	96
8.	Emergency Wards	2	96
9	Uro/ Nephro OPDs	3	144
10	Diagnostic Labs	1	40
	Total	30	1450

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

Procedures to be observed

I. Procedures Observed

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

II. Procedures to be 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. Procedures to be performed

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

IV. OTHER PROCEDURES IF ANY:

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Note: * Latest Edition

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING - ORTHOPEDIC NURSING

Placement : II Year

Hours of Instruction

Theory : 150 Hours

Nursing Faculty:- 110hrs

External Faculty:- 40hrs

Practical :1450 Hours

Total : 1600 Hours

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.

COURSE CONTENT

UNIT	HOURS	CONTENT
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ▪ 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,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	<p>Assessment of Orthopedic Patient</p> <ul style="list-style-type: none"> ▪ Health Assessment: History, physical examination- inspection,palpation, movement, Measurement, muscle strength testing. ▪ Diagnostic studies – Radiological studies, Muscle enzymes,serologic studies.
III	10 EF3	<p>Care of patients with devices</p> <ul style="list-style-type: none"> ▪ Splints, braces, various types of plaster cast ▪ Various types of tractions, ▪ Various types of orthopedic beds and mattresses

<p>IV</p>	<p>15 EF5</p>	<ul style="list-style-type: none"> ▪ Comfort devices ▪ Implants in orthopedic ▪ Prosthetics and Orthotics <p>Injuries</p> <p><i>Trauma & Injuries</i></p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of : <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation
<p>V</p>	<p>8 EF3</p>	<p>Infections of Bones and Joints</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of : <ul style="list-style-type: none"> • Tuberculosis • Osteomyelitis • Arthritis • Leprosy
<p>V1</p>	<p>5 EF2</p>	<p>Bone Tumours</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of:

<p>VII</p>	<p>10 EF5</p>	<ul style="list-style-type: none"> • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors <p>Deformities</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis ▪ Congenital disorders: Congenital dislocation of hip (CDH), Dislocation of patella, knee. ▪ Varus and valgus deformities. ▪ Deformities of digits, Congenital torticollis ▪ Meningocele, meningocele, spina bifida ▪ Chromosomal disorders, Computer related deformities.
<p>VIII</p>	<p>5 EF2</p>	<p>Disorders of the spine</p> <ul style="list-style-type: none"> ▪ Intervertebral disc prolapse, Fracture of the spine ▪ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis
<p>IX</p>	<p>5 EF2</p>	<p>Nutritional/Metabolic and Endocrine Disorders</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Rickets, • Scurvy, • Hypervitaminosis A and D, • Osteomalacia, • Osteoporosis • Paget’s disease, • gout • Gigantism, Dwarfism, Acromegaly. • Therapeutic diets for various orthopedic disorders.
<p>X</p>	<p>8 EF3</p>	<p>Neuro-Muscular Disorders:</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical, surgical and nursing management of: <ul style="list-style-type: none"> • Poliomyelitis, Cerebral Palsy • Myasthenia gravis

		<ul style="list-style-type: none"> • Spina bifida. • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy
XI	8 EF3	<p>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders:</p> <ul style="list-style-type: none"> ▪ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical, surgical and nursing management of: <ul style="list-style-type: none"> • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus
XII	5 EF2	<p>Orthopedic Disorders in Children:</p> <ul style="list-style-type: none"> ▪ General and special consideration on pediatric orthopedics ▪ Genetic disorders ▪ Congenital anomalies ▪ Growth disorders ▪ Genetic counseling ▪ Nurses role in genetic counseling
XIII	5	<p>Geriatric Problems</p> <ul style="list-style-type: none"> ▪ Geriatric population, types of disabilities, causes, treatment and management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. ▪ Care at home – involvement of family and community, follow up care and rehabilitation
XIV	6	<p>Pharmacokinetics</p> <ul style="list-style-type: none"> ▪ Principles of drug administration ▪ Analgesics and anti inflammatory agents ▪ Antibiotics, Antiseptics ▪ Drugs used in orthopedics & neuromuscular disorders ▪ Blood and blood components

<p style="text-align: center;">XV</p>	<p style="text-align: center;">30 EF10</p>	<ul style="list-style-type: none"> ▪ Care of drugs and nurses role <p>Nurses Role in Orthopedic Conditions</p> <ul style="list-style-type: none"> ▪ Gait analysis ▪ Urodynamic studies ▪ Prevention of physical deformities ▪ Alteration of body temperature regulatory system and immune systems ▪ Immobilization – cast, splints, braces and tractions ▪ Prevention and care of problems related to immobility ▪ Altered sleep patterns ▪ Impaired communication ▪ Self care and activities of daily living ▪ Bladder and bowel rehabilitation ▪ Sensory function rehabilitation ▪ Psychological reaction related to disabilities & disorders. ▪ Coping of individual & family with disabilities and disorders ▪ Maintaining sexuality ▪ Spirituality – A rehabilitative prospective <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> ▪ Replacement surgeries – Hip, Knee, Shoulder, Spine surgeries, Grafts & flaps surgery, Deformity correction. <p>Physiotherapy</p> <ul style="list-style-type: none"> ▪ Concepts, Principles, purpose <ul style="list-style-type: none"> • Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques. • Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat. • Chest physiotherapy
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<p>XVI</p>	<p>8</p>	<p>Rehabilitation</p> <ul style="list-style-type: none"> ▪ Principles of rehabilitation, definition, philosophy, process ▪ Various types of therapies, Special therapies and alternative therapies ▪ Rehabilitation counseling ▪ Preventive and restorative measures. ▪ Community based rehabilitation (CBR) ▪ Challenges in rehabilitation ▪ Role of the nurse in rehabilitation. ▪ Legal and ethical issues in rehabilitation nursing ▪ Occupational therapy.
<p>XVII</p>	<p>5</p>	<p>National Policies and Programmes</p> <ul style="list-style-type: none"> ▪ National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing corporation, District rehabilitation centers and their schemes, Regional rehabilitation centers etc. ▪ Public policy in rehabilitation nursing ▪ The persons with disabilities act 1995 ▪ Mental rehabilitation & 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.
<p>XVIII</p>	<p>4</p>	<p>Quality assurance</p> <p>Standards, Protocols, Policies, Procedures, Nursing audit, Staffing, Design of orthopedic, physiotherapy and rehabilitation unit.</p>

Practicals

1. Clinical practice in Orthopedic, physiotherapy & 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 = 1450 Hours

1 Week =48 Hours

SL.NO	Dept/ Unit	Weeks
1.	Orthopedic Ward	8
2	Orthopedic OT	4
3	Neuro Surgical Ward	2
4	Orthopedic O.P.D	2
5	Casualty/ Emergency/ Trauma	4
6	Rehabilitation Unit	2
7	Physiotherapy Unit	4
8	Pediatric/ pediatric Surgery Unit	2
9	Field Visit	2
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

Procedures to be 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. Fluoroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

Procedures to be assisted

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

Procedures to be 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 if any.

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- ❖ Solomon, Louis. etal .*Apley's System Of Orthopaedics And Fractures*. London :
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- ❖ R.M.Kirk.General Surgical Operations.Vth Edition,Elsevier.
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- ❖ Lewis. Medical Surgical Nursing Assessment & Management of Problems, 7th Edn. Mosby Publishers.
- ❖ Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7th Edn. Saunders, Missouri.
- ❖ **Note:** * Latest Edition

CLINICAL SPECIALITY - II

MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement : II Year

Hours of Instruction

Theory : 150 hrs.

Nursing Faculty:-110hrs

External Faculty:-40hrs

Practical : 1450 hrs.

Total : 1600 hrs.

Course Description

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

Objectives

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

1. Appreciate trends and issues related to gastro enterology Nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions.
3. Participate in national health programmes 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 Gastro Enterology 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 enterology intensive care unit (GEICU) , liver care/transplant unit.

Course Content

UNIT	HOURS	CONTENT
I	5	<p>Introduction</p> <ul style="list-style-type: none"> • Historical development: trends and issues in the field of gastroenterology. • Gastro enterological problems • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> • Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations. • Health promotion, disease prevention, life style modification and its implications to nursing. • National health programmes related to gastro enterology. • Alternate system of medicine/complementary therapies.
III	5	<p>Review of anatomy and physiology of gastrointestinal system</p> <ul style="list-style-type: none"> • Gastrointestinal system • Liver, biliary and pancreas • Gerontologic considerations

		<ul style="list-style-type: none"> • Embryology of GI system • Immunology specific to GI system.
IV	15 EF5	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Diagnostic tests <ul style="list-style-type: none"> • Radiological studies: Upper GIT- barium swallow, lower GIT- Barium enema, • Ultra sound: • Computed tomography • MRI • Cholangiography: • Percutaneous transhepatic Cholangiogram(PTC) • Magnetic Resonance Cholangio pancreotography (MRCP) • Nuclear imaging scans(scintigraphy) • Endoscopy • Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangio 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 <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>

V	25 EF10	<p>Gastro intestinal disorders and nursing management</p> <ul style="list-style-type: none"> • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of <ul style="list-style-type: none"> • Disorders of the mouth: Dental caries, Peridontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis),Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw. • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum. • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic on specific (functional) abdominal pain. • Disorders of the small intestine <ul style="list-style-type: none"> -Malabsorption syndrome – tropical sprue -Gluten – sensitive enteropathy (Coeliac disease) -Inflammatory diseases of intestines and abdomen,: appendicitis, Peritonites, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome -Chronic inflammatory bowel disease, Ulcerative colitis, 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
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		<p>constipation, Functional diarrhea</p> <p>Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pilonidal disease, Anal condylomas, Warts</p>
VI	15 EF10	<p>Disorder of liver, pancreas gall bladder and nursing management</p> <ul style="list-style-type: none"> • Disorders of liver biliary tract • Viral Hepatitis – A, B, C, D & E • Toxic hepatitis <ul style="list-style-type: none"> • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis • Liver abscess,; • Parasitic and other cysts of the liver • Disorders of the Gall Bladder and Bile Duct: <ul style="list-style-type: none"> • Cholecystitis, Cholelithiasis and Choledocholithiasis • Disorders of the pancreas: Pancreatitis, Benign tumors of islet cells • Disorders of the Peritoneum. <ul style="list-style-type: none"> - Infections of the peritoneum <ul style="list-style-type: none"> -Surgical peritonitis -Spontaneous bacterial peritonitis -Tuberculosis peritonitis • Disorders of the Diaphragm. <ul style="list-style-type: none"> - Diaphragmatic hernia - Congenital hernias - Paralysis of diaphragm - Tumors of the diaphragm - Hiccups
VII	15 EF5	<p>Gastro intestinal emergencies and nursing interventions</p> <ul style="list-style-type: none"> • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:

		<ul style="list-style-type: none"> • Esophageal varices • Ulcer perforation • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver , spleen, stomach pancreatic, mesenteric, bowel and • greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning
VIII	15 EF5	<ul style="list-style-type: none"> ○ Congenital Anomalies of Esophagus <ul style="list-style-type: none"> • Esophageal atresia • Tracheo esophageal fistula • Esophageal stenosis • Esophageal duplications • Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzki ring • Esophageal webs ○ Congenital Anomalies of Stomach <ul style="list-style-type: none"> • Gastric atresia • Micro gastia • Gastric diverticulum • Gastric duplication • Gastric teratoma • Gastric volvulus

		<ul style="list-style-type: none"> • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis ○ Congenital Anomalies of Duodenum • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvulus ○ Developmental anomalies of the intestine: <ul style="list-style-type: none"> • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia ○ Hirschsprung's disease
IX	15	<p>Pharmo Kinetics</p> <ul style="list-style-type: none"> ➤ Drugs used in GIT ➤ Principles of administration ➤ Roles responsibilities of nurses ➤ Drugs in Peptic ulcer disease ➤ Proton Pump inhibitors ➤ H2 Receptor Antagonists ➤ Cytoprotective Agents ➤ Drugs used in Diarrhea ➤ Drugs used in constipation ➤ Drugs used in Inflammatory Bowel Disease, ➤ Aminosalicylates ➤ Corticosteroids ➤ Immunomodulators ➤ Chemotherapy ➤ Antibiotics ➤ Antiemetics ➤ Anticholinergics ➤ Antihistaminics ➤ Anthelminthics ➤ Vitamin Supplements.
X	10	Nutrition and nutritional problems related to GI system

		<ul style="list-style-type: none"> ➤ Nutritional assessment and nursing interventions ➤ Therapeutic diets ➤ Adverse reactions between drugs and various foods. ➤ Malnutrition- etiology , clinical manifestations and management ➤ Tube feeding, parenteral nutrition, total parenteral nutrition ➤ Obesity- etiology, clinical manifestations and management ➤ Eating disorders- anorexia nervosa, bulimia nervosa ➤ Recent advances in nutrition
XI	15 EF5	<p>Malignant disorders of gastro intestinal system</p> <ul style="list-style-type: none"> ○ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: <ul style="list-style-type: none"> • Malignancy of oral cavity, Lip, Tongue, buccal mucosa, oropharynx, Salivary gland. • Esophageal , Gastric , Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma, • Liver, biliary tract and Pancreatic carcinoma
XII	5	<p>Administration and management of GE unit</p> <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing ➤ Equipment, supplies ➤ Infection control; Standard safety measures. ➤ Quality Assurance:-Nursing audit –records /reports, Norms, policies and protocols ➤ Practice standards.
XIII	5	<p>Education and training in GE care</p> <ul style="list-style-type: none"> ○ Staff orientation, training and development ○ In-service education program <ul style="list-style-type: none"> • Clinical teaching programs.

Practicals Total = 1450 Hours

1 Week =48 Hours

SL. No	Dept/ Unit	No .of Weeks
1.	Diagnostic Lab	1
2.	Emergency & Casualty	2
3.	Liver Transplant Unit	1
4.	GE Medical Ward	6
5.	GE Surgical Ward	8
6.	OT	2
7.	ICU	4
8.	Pediatric Gastroenterology	2
9.	Oncology	2
10.	GE OPD	2
	Total	30

Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	30%
Seminars/Presentations	25%	Internal examination	20%
Total	100%	TOTAL	100%

Procedures to be assisted

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

Procedures 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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Note: * Latest Edition

CLINICAL SPECIALTY –II
CHILD HEALTH (PAEDIATRIC) NURSING-II

Placement : II Year

Hours of Instruction

Theory 150 hours

External – 50 hours

Internal – 100 hours

Practical 1450 hours

Total : 1600 hours

Course Description

This course is designed to assist students in developing expertise and in-depth understanding in the field of Child Health 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 Child Health 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 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. Recognize and manage emergencies in neonates.
6. Identify various treatment modalities in the management of high risk neonates/children.
7. Prepare a design for layout and describe standards for management of pediatric units/hospitals.
8. Identify areas of research in the field of Child Health Nursing.

COURSE CONTENT

Unit	Hours	Content
I	5	<p>Introduction</p> <p>Current & Future role of pediatric nurse in various settings -Expanded and Extended</p>
II	60 EF 30	<p>Medical conditions</p> <p>Pathophysiology, assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders</p> <ul style="list-style-type: none"> • Child with respiratory disorders: <ul style="list-style-type: none"> - Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. - Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, croup, cystic fibrosis • Child with gastro-intestinal disorders: <ul style="list-style-type: none"> - Diarrheal diseases, gastro-esophageal reflux. - Hepatic disorders: Hepatitis, Indian childhood cirrhosis, Wilson’s disease, Reyes Syndrome, Celiac Disease - Malabsorption syndrome, Malnutrition,Deficiency disorders • Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, ARF • Child with cardio-vascular disorders: <ul style="list-style-type: none"> - Acquired: Rheumatic fever, Rheumatic heart disease, Kawasaki’s disease, Cardiomyopathy - Congenital: Cynotic and acynotic • Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – hyper and hypo thyroidism, inborn errors of metabolism • Child with Neurological disorders: seizure disorders Meningitis, encephalitis, Guillian- Barre syndrome, Reyes syndrome • Child with oncological disorders: Leukemias, Lymphomas, Wilms’ tumor, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors, brain tumors • Child with blood disorders: Anemias, thalassemias,

		<p>hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation</p> <ul style="list-style-type: none"> • Child with skin disorders: scabies, staphylococcal scalded skin syndrome, vascular lesions • Common Eye and ENT disorders – congenital malformations, otitis media • Common Communicable diseases: TB, Polio, Diptheria, pertusis, tetanus, chicken pox, measles, mumps, rubella, HIV/AIDS, H₁N₁, Chikkun gunia, leptospirosis, dengue, IMN
III	50 EF 20	<p>Surgical conditions</p> <p>Assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders</p> <ul style="list-style-type: none"> • Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs’ disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, pyloric stenosis, 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 Obstructive uropathy, Hydronephrosis, • Anomalies of the skeletal system – Talipes, Hip dislocation • Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma - Head injury, abdominal injury, poisoning, foreign body obstruction, burns - Bites & Stinges Organ transplantation Liver Kidney • Management of stomas, catheters and tubes

		• Management of wounds and drainages
IV	20	Intensive care for pediatric clients Resuscitation, and post resuscitation management Care of critically ill child – physical, physiological, psychological Legal and ethical issues in pediatric intensive care Intensive care procedures, central line, intra osteus, endotracheal intubation, tracheostomy care, peritoneal dialysis Documentation- ICU flow sheet
V	10	Administration and management of pediatric care unit Design & layout Staffing, Equipment, supplies, Norms, policies and protocols Practice standards for pediatric care unit Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU Documentation
VI	5	Education and training in Pediatric care Staff orientation, training and development, In-service education program, Clinical teaching programs.

Practical

Total = 1450 Hours

1 Week = 48 Hours

Sl.No	Dept/ Unit	No. Of Weeks
1.	Pediatric Medical I.C.U	4
2.	Pediatric Surgical I.C.U	5
3.	NICU	2
4.	Pediatric OT	3
5.	Pediatric Medical Ward	5
6.	Pediatric Surgical Ward	5
7.	Emergency/ Casualty	6
	Total	30

Theory weightage		Practical weightage	
Sessional exams (30)	50%	Ongoing assessment	40%
Written assignments	25%	Clinical assignments	40%
Seminars	25%	Internal examination	20%
TOTAL	100%	TOTAL	100%

Essential

I. Procedures to be Observed:

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

II. Procedures to be Assisted

- Advanced neonatal life support
- Lumbar Puncture
- Arterial Blood Gas
- ECG Recording

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
- Gastric Lavage

Assignments

Clinical presentations

Clinical teaching

Patient care profile

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CLINICAL SPECIALTY-1I
MENTAL HEALTH (PSYCHIATRIC) NURSING-1I

Placement- II Year

Hours of Instruction

Theory	-150 Hrs
Practical	-1450 Hrs.
Total	-1600 Hrs.

Resource Persons

Psychiatric Nursing Faculty	-100 Hrs
Psychiatrist	-30 Hrs
Psychologist	-10 Hrs
Psychiatric social worker	-10 Hrs

Course Description:

The course is designed to develop in depth knowledge in advanced concepts in psychiatry and psychiatric nursing and apply this knowledge in rendering comprehensive care to clients in different settings by collaborating psychiatric nursing with other disciplines and to assume expanded roles as nurse therapist, counselor educator, administrator and researcher in various settings.

Objectives:

1. Demonstrate advanced skills and competence in nursing management of patients with mental disorders in various settings.
2. Identify and care for special groups like children, adolescents, women, elderly abused and neglected, people living with HIV/AIDS.
3. Identify and manage psychiatric emergencies
4. Provide nursing care to critically ill patients with mental disorders.
5. Utilize the recent technology and various treatment modalities in management of patients with mental disorders.
6. Demonstrate skills in carrying out crisis intervention.
7. Incorporate evidence based nursing practices and identify the areas of research in the field of psychiatric nursing.
8. Prepare, design and layout for psychiatric units/emergency units.
9. Teach psychiatric nursing to undergraduate students.
10. Plan and organize in service education programmes in psychiatric nursing.

UNIT	TIME (HRS)	CONTENT
I	10	<p>CRISIS INTERVENTION</p> <ul style="list-style-type: none"> • Crisis: definition, types, phases. • Crisis Intervention strategies • Prevention of crises. • Role of crisis intervention • Effects of disaster, war violence, terrorism, trauma in individuals and group. • Post traumatic stress disorder(PTSD)
II	15 (Psychi-5)	<p>PSYCHIATRIC EMERGENCIES</p> <p>Common psychiatric emergencies and management.</p> <p>The Suicidal Client</p> <ul style="list-style-type: none"> • Epidemiological factors • Risk factors • Predisposing factors: theories of suicide, biological, psychological, sociological • Nursing management
III	5 (Psychi-5)	<p>MEDICAL CONDITIONS DUE TO PSYCHOLOGICAL FACTORS</p> <ul style="list-style-type: none"> • Asthma • Coronary heart disease • Cancer peptic ulcer • Essential hypetension • Migraine head ache • Rheumatoid arthritis • Ulcerative colitis • Treatment and nursing management
IV	10	<p>SOMATOFORM AND SLEEP DISORDERS</p> <p>Somatoform Disorders</p> <ul style="list-style-type: none"> • Historical aspects • Epidemiology • Pain disorders

		<ul style="list-style-type: none"> • Hypochondriasis • Conversion disorders • Body dysmorphic disorders <p>Sleep Disorders</p> <p>Treatment modalities and nursing management</p>
V	5	<p>DISSOCIATIVE DISORDERS AND MANAGEMENT</p> <ul style="list-style-type: none"> • Historical aspects • Epidemiological factors • Treatment modalities and nursing management
VI	5	<p>SEXUAL AND GENDER IDENTITY DISORDERS</p> <ul style="list-style-type: none"> • Development of human Sexuality • Sexual Disorders • Variation in sexual orientation • Treatment and nursing management
VII	5	<p>EATING DISORDERS</p> <ul style="list-style-type: none"> • Epidemiological factors • Predisposing factors: Anorexia Nervosa • Bulimia Nervosa and obesity • Psychopharmacology • Treatment and nursing management
VIII	5	<p>ADJUSTMENT AND IMPULSE CONTROL DISORDERS</p> <ul style="list-style-type: none"> • Epidemiological factors • Adjustment disorders • Impulse Control Disorders • Treatment and nursing management
IX	15 (Psychi-5)	<p>PERSONALITY DISORDERS</p> <ul style="list-style-type: none"> • Epidemiological factors • Types of Personality Disorders <ul style="list-style-type: none"> ▪ Paranoid Personality Disorder ▪ Schizoid Personality Disorder ▪ Antisocial Personality disorder ▪ Borderline Personality Disorder ▪ Histrionic Personality Disorder

		<ul style="list-style-type: none"> ▪ Narcissistic Personality Disorder ▪ Avoidance Personality Disorder ▪ Dependent Personality Disorder ▪ Obsessive -compulsive Personality Disorder ▪ Passive -Aggressive Personality Disorder • Identification, diagnosis, symptoms • Psychopharmacology • Treatment and nursing management
X	20 (Psychi.10)	<p>DISORDERS OF INFANCY, CHILDHOOD, AND ADOLESCENCE</p> <ul style="list-style-type: none"> • Review of theories of child and adolescent development • Psychiatric illness in children and adolescents- concepts • General response • Mental retardation <ul style="list-style-type: none"> - Predisposing factors - Management <p style="text-align: center;">Prevention Rehabilitation</p> <ul style="list-style-type: none"> • Autistic disorders • Attention deficit hyper active disorders • Tourette’s disorders • Separation anxiety disorders • Conduct Disorders • Mixed Disorders of conduct and emotion • Disorders of social functioning with onset specific to childhood and adolescence. • Tic disorders • Other emotional and behavioural disorders with onset usually occurring in childhood and adolescence.
XI	10 (Psychi-5)	<p>GERIATRIC MENTAL HEALTH</p> <ul style="list-style-type: none"> • Theories of ageing • Biological, psychological, and socio-cultural aspects of ageing

		<ul style="list-style-type: none"> • Special concerns of elderly population. • Psychiatric problems among elderly population. • Treatment and nursing management. • Rehabilitation
XII	5 (Psycho.)	WOMEN AND MENTAL HEALTH <ul style="list-style-type: none"> • Psychological problems related to menstruation, menopause, conception, pregnancy and puerperium. • Counseling- premarital, marital, and genetic • Other psychosocial problems.
XIII	5 (Psycho-5)	CLIENT WITH HIV/AIDS <ul style="list-style-type: none"> • Psycho- social problems of clients with HIV/AIDS • Counseling • Nursing management
XIV	10 (PSW-5H)	COMMUNITY MENTAL HEALTH NURSING <ul style="list-style-type: none"> • Concepts and models of community mental health • The community as Client <ul style="list-style-type: none"> ○ Primary Prevention ○ Populations at Risk ○ Secondary prevention ○ Tertiary Prevention • The Role of the Nurse • National Mental Health programme (NMHP) • District Mental Health Programme (DMHP) • Community mental health centers: organization and functions.
XV	5	CLIENTS WITH LIFE THREATENING ILLNESSNESS <ul style="list-style-type: none"> • Loss and bereavement • Stages of grief and grief response • Adaptive and mal adaptive response to grief • Psychosocial concerns of clients and families with life threatening and debilitating illnesses • Nursing management

XVI	5	<p>PROBLEMS RELATED TO ABUSE , VIOLENCE AND NEGLECT</p> <ul style="list-style-type: none"> • Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, differentially able. • Prevention and management Counseling
XVII	5 (PSW)	<p>PSYCHOSOCIAL REHABILITATION</p> <ul style="list-style-type: none"> • Principles of rehabilitation • Disability assessment • Community based rehabilitation <ul style="list-style-type: none"> ○ Day care centers ○ Half way homes ○ Sheltered workshops ○ Correctional homes ○ Self help groups • Training and support to care givers • Role of nurse
XVIII	5	<p>ADMINISTRATION AND MANAGEMENT OF PSYCHIATRIC UNITS INCLUDING EMERGENCY UNITS</p> <ul style="list-style-type: none"> • Design & layout • Planning, equipment, staffing and budgeting • Norms, policies and protocols for management of psychiatric patients in different settings • Quality assurance • Documentation
XIX	5	<p>EDUCATION AND RESEARCH IN PSYCHIATRIC CARE</p> <ul style="list-style-type: none"> • In-service education programmes • Clinical teaching programs. • Scope, problems, and future perspectives of research in psychiatric nursing • Evidence based practice

PRACTICAL

Total -1450 Hours

SL NO	AREA OF POSTING	NO. OF WEEKS
1	Acute psychiatric ward	4
2	Chronic psychiatric ward	4
3	De- addiction unit	2
4	Psychiatric emergency unit	4
5	OPD	3
6	Child psychiatric unit and child guidance clinic	2
7	Family psychiatry	2
8	Filed visits	2
9	Rehabilitation/ occupational therapy	2
10	Community mental health	4
11	In-service education programme	1
	Total	30

*NIMHANS, Bangalore -8 weeks posting to be included in the area of posting

STUDENT ACTIVITIES

- History taking - Weekly one
- Mental Status Examination - Weekly one
- Nursing care plan - Weekly one
- Psycho education - 1
- Case presentation - 4
- Case study - 2
- Participating in various therapies – Phramco therapy, ECT, Social/recreation therapy
- Family therapy
- Group therapy
- Counseling
- Cognitive Behavioral therapy
- Project work based on community care setting
- Field visits
- Play therapy

Method of Evaluation

Theory	Weightage
Sessional examinations – 3	50 %
Seminar	25 %
Term paper – 1	25 %
Total	100%
Practical	
Ongoing clinical evaluation	30 %
Clinical assignments	20 %
Project	20 %
Internal practical examination	30 %
Total	100%

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Note:-* Latest Edition

CLINICAL SPECIALITY – II
OBSTETRIC AND GYNAECOLOGICAL NURSING-II

Placement : II year

Hours of Instruction

Theory:150 hours

External- 50 hours

Internal- 100 hours

Practical: 1450 hours

Total:1600Hours.

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 the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynaecological 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. Demonstrate competence in caring for women with obstetrical and gynaecological conditions
3. Demonstrate competence in caring for high risk newborn.
4. Identify and manage obstetrical and neonatal emergencies as per protocol
5. Practice infection control measures
6. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, gynaecological and neonatal care
7. Demonstrate skill in handling various equipments/gadgets used for obstetrical, gynaecological and neonatal care
8. Teach and supervise nurses and allied health workers
- 9 .Design a layout of specialty units of obstetrics and gynaecology
- 10 .Develop standards for obstetrical and gynaecological nursing practice.

11 .Counsel women and families

12. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrical and gynaecological nursing

13. Function as independent midwifery nurse practitioner

Unit	Hours	Content
I	25 EF8	Management of problems of women during pregnancy <ul style="list-style-type: none">➤ Risk approach- obstetrical nursing care concepts & goals➤ Screening of high-risk pregnancy, newer modalities of diagnosis.<ul style="list-style-type: none">Nursing management of high risk pregnancies• Pernicious Vomiting• Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases.• Bleeding during late pregnancy: antepartum hemorrhage-placenta praevia, abruptio placenta• Hypertensive disorders in pregnancy-Gestational hypertention, pre-eclampsia, eclampsia,)• Iso-immune disease, Rh & ABO incompatibility• Hematological problems in pregnancy• Hydramnios , oligohydramnios• Prolonged pregnancy-post term, post maturity• Multiple pregnancy.• Intra uterine growth retardation (IUGR), Premature Rupture of Membrane(PROM).• Intra uterine death, Loss, grief & bereavement.
II	15 EF8	Pregnancies at risk-due to pre-existing health problems <ul style="list-style-type: none">➤ Diabetes Mellitus➤ Anemia and nutritional deficiencies➤ Hepatitis➤ Cardio-vascular disease➤ Thyroid diseases➤ Epilepsy➤ Haematological disorders➤ Chronic renal failure➤ Tropical diseases

		<ul style="list-style-type: none"> ➤ Psychiatric disorders ➤ Infections- Toxoplasmosis, Rubella, Cytomegalo virus, Herpes (TORCH), 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	20 EF10	<p>Abnormal labour, & obstetrical emergencies</p> <ul style="list-style-type: none"> ➤ Etiology, pathophysiology and nursing management of <ul style="list-style-type: none"> • Uncoordinated uterine actions- Atony of uterus, Preterm labour, precipitate labour, prolonged labour • Abnormal presentations. • Contracted pelvis-CPD; dystocia • Obstetrical emergencies- obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, cord presentation and prolapse cord. • Medical and surgical induction • Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations • Genital tract injuries-Perineal tear, VVF, RVF <ul style="list-style-type: none"> ➤ Complications of third stage of labour: <ul style="list-style-type: none"> • Post partum Hemorrhage • Retained placenta, adherent placenta • Manual removal of placenta • Critical care in obstetrics- role of the nurse
IV	15 EF5	<p>High risk Puerperium</p> <ul style="list-style-type: none"> ➤ Nursing management of <ul style="list-style-type: none"> • Puerperal infections, puerperal sepsis, urinary complications, venous thrombosis, Thrombophlebitis and pulmonary embolism. • Sub involution of uterus • Breast complications. • Psychological complications-Postpartum blues, depression,

		psychosis.
V	25 EF8	<p>High Risk Newborn</p> <ul style="list-style-type: none"> - Concept, goals, assessment, principles. - Nursing management of <ul style="list-style-type: none"> • Pre-term, small for gestational age, post-mature infant and baby of diabetic and substance use mothers. • Respiratory complications; Asphyxia neonatorum, neonatal apnoea, meconium aspiration syndrome, pneumo thorax, pneumo mediastinum. • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephalopathy. • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal hemolytic diseases. • Neonatal infections, neonatal sepsis, ophthalmia neonatorum. Congenital syphilis, HIV/ AIDS. • Hematological conditions – erythroblastosis fetalis, hemorrhagic disorders in newborn. • Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU • Advanced neonatal procedures. • Calculation of fluid requirements
VI	15 EF4	<p>HIV / AIDS</p> <ul style="list-style-type: none"> • HIV positive mother and her baby • Epidemiology • Screening • Parent to child transmission (PTCT) • Prophylaxis for mother and baby • Standard safety measures

		<ul style="list-style-type: none"> • Counseling • Breast feeding issues • National policies and guidelines • Issues: Legal, ethical, psychological and rehabilitation • Role of nurse
VII	25 EF7	<p>Gynecological problems and nursing management</p> <ul style="list-style-type: none"> • Gynaecological assessment, Psychosocial factors of gynaecologic care. • Gynaecological procedures. • Etiology, pathophysiology, diagnosis, and nursing management of <ul style="list-style-type: none"> - Menstrual irregularities - Menopause - Diseases of genital tract - Endometriosis, Adenomyosis -Displacement of the uterus -Genital prolapse -Uterine malformation- -Uterinefibroid, ovarian tumors, PID, reproductive tract malignancies, -Hysterectomy-Abdominal and vaginal - Laparoscopic surgery
VIII	5	<p>Administration and management of obstetrical and gynaecological unit</p> <ul style="list-style-type: none"> • Design and 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	<p>Education and training in obstetrical and gynaecological care</p> <ul style="list-style-type: none"> • Staff orientation, training, and development • In-service education programme • Clinical teaching programs

Practical

Total = 1450 Hours

1 Week=48 hours

Sl.No	Dept./Unit	Weeks
1	Antenatal OPD including infertility clinics/ Reproductive medicine, Family welfare and post partum clinic / PPTCT	2
2	Antenatal	4
3	Labour Room	5
4	Post natal ward	5
5	Obstetric / Gynae Operation Theatre	2
6	Gynaec Ward	2
7	Post operative ward	6
8	Neonatal Intensive Care Unit	2
9	Community midwifery	2
	Total	30

Procedures to be observed

- Ultra sonography
- MRI

Procedures to be assisted

- Assisted Reproductive technology procedures.
- Amniocentesis.
- Cervical & vaginal cytology.
- Fetoscopy.
- Hysteroscopy
- Surgical diathermy.
- Cryosurgery.
- Obstetric & Gynaecological operations
- Abnormal deliveries – Forceps application, Ventouse, Breech
- High risk cases- 30
- Exchange blood transfusion
- Culdocscopy

- Cystoscopy
- Laproscopy
- Endometrial Biopsy
- Tubal patent test
- Chemotherapy
- Radiation therapy
- Dilatation & Curettage
- Hysterectomy- Abdominal, Vaginal
- Caesarean Section

Procedures to be performed

- High risk antenatal assessment : 20
- High risk intranatal assessment : 20
- High risk postnatal assessment : 20
- High risk new born assessment : 20
- Pelvic examination
- Assessment of foetal well being - Biochemical ,biophysical
- Per Vaginal examination - pregnancy, labour, post partum.
- Medical & Surgical induction
- Conduct of delivery
- Episiotomy suturing
- Postnatal assessment
- Post natal Counseling
- High risk new born assessment; physical and neurological
- Neonatal resuscitation
- Gastric Lavage of newborn
- Kangaroo mother care.
- Feeding technique: naso /orogastric, Total parenteral nutrition.
- Chest physiotherapy
- Setting of operation theatre.
- Pap smear
- Vaginal smear
- Insertion of pessaries

- Insertion of IUD and removal
- Care of new born in ventilator and incubator
- Plan and organize in service education programme for staff nurses
- Critical analysis of selected research studies.

Assignments

- Nursing care analysis - 5
- Nursing care studies - 5
 - Antenatal
 - Intranatal
 - Postnatal
 - Newborn
 - Gynaecology
- Clinical profile - 5 clinical conditions
- Clinical teaching 10
- Planned health education - 5
- Design floor plan of obstetric unit. - 1

Evaluation Methods

- Assignments
- Theory & Practical Exam
- Ongoing evaluation
- Record of practical work

Theory	Weightage	Practical	Weightage
Tests (3)	50%	Ongoing evaluation	50%
Assignments	25%	Clinical assignment	25%
Seminars	25%	Int. Practical exam	25%
Total	100%	Total	100%

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Note: * Latest Edition

CLINICAL SPECIALITY – II

COMMUNITY HEALTH NURSING - II

Placement – II year	
Hours of Instruction	
Theory	:150hours
External	:-20hours
Internal	:-130hours
Practical	:1450hours
Total	:1600 hours

Course Description

This course is designed to facilitate students to gain indepth knowledge and develop skill in the administration and management of community health services. It will further enable students to develop leadership qualities and practice as a community health nurse specialist, educator, researcher and manager.

Objectives:

On completion of the course student will be able to:

1. Review the health planning in India
2. Explain the administration and organization of health system in India
3. Plan, organize, implement and evaluate community-oriented programs
4. Participate effectively as a team member in the health planning at local, regional, state and national level
5. Apply epidemiological concepts and principles in community health nursing practice
6. Demonstrate leadership qualities in the field of community health nursing
7. Supervise and guide the nursing personnel working in community health settings
8. Demonstrate competencies in guiding undergraduate students in community health nursing specialty
9. Conduct individual and group research projects in the field of community health nursing.
10. Demonstrate competency in providing independent family centered nursing care
11. Teach and supervise community health nurses and allied health workers

COURSE CONTENT:

Unit	Hours	Content
I	20 (EF 20)	Health Planning and Management: Planning, purpose, advantages of planning, planning cycle <ul style="list-style-type: none">• Management – Types and methods• National development planning• Health planning in India• Health committees and recommendations• Planning commission• Five year plans• National Health Policies• Health system in India at centre, state, district and local level• Panchayati Raj and rural development• Health economics – definition, concepts, financing in health care sector• Evaluation of health services
II	20	Health care delivery system in India: <ul style="list-style-type: none">• Concept of health care• Levels of health care• Primary health care – integration of primary health care in developing countries• HFA concept, Millennium Development Goals• Indian public health standards• Concept of health promotion• Health care delivery system: Urban, rural, national, state, district, CHC, PHC, Referral system.• sub centre – functions, staffing, patterns of assistance, roles and responsibilities of DPHN• Critical review of functioning at different levels, evaluation studies, recommendations and nursing perspectives• Alternative systems of medicine• Health agencies: NGOs; roles and functioning• Intersectoral coordination

		<ul style="list-style-type: none"> • Public private partnership • Challenges of health care delivery system
III	25	<p>National Health Programmes and Health Services in India:</p> <ul style="list-style-type: none"> • Objectives, Organization/manpower/resources. Activities, Goals • Review and critique of national health programs and services – responsibilities of community health nurse <ul style="list-style-type: none"> ❖ National vector borne diseases control program ❖ National filariasis control program ❖ National leprosy eradication program ❖ Revised national TB control program ❖ National program for control of blindness ❖ National iodine deficiency disorders control program ❖ National mental health program ❖ National AIDS control program ❖ National cancer control control program ❖ RCH I and II ❖ Noncommunicable disease programs ❖ NRHM ❖ Integrated disease surveillance program ❖ School health services ❖ Adolescent health ❖ National family welfare program
IV	15	<p>Occupational Health:</p> <ul style="list-style-type: none"> • Introduction: Trends, issues, definition, aims, objectives, workplace safety • Ergonomics and solutions • Occupational environment – physical, social • Occupational hazards for different categories of workers – physical, chemical, biological, mechanical, accidents. • Occupational diseases and disorders • Measures for health promotion of workers; prevention and control of occupational diseases, disability limitation and rehabilitation

		<ul style="list-style-type: none"> • Women and occupational health • Health education and counseling • Violence at workplace • Child labour • Disaster preparedness and management • Legal issues: legislation, labour unions, ILO and WHO recommendations, factories act, ESI act • Occupational health team • Role of community health nurse
V	10	<p>Community Geriatrics:</p> <ul style="list-style-type: none"> • Concept, trends, problems and issues • Aging process and changes • Theories of aging • 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 and programmes for elderly, role of N.G.Os. • Roles and responsibilities of geriatric nurse in the community
VI	10	<p>Community Mental Health</p> <ul style="list-style-type: none"> • Magnitude, trends and issues • National mental health program– community mental health program • The changing focus of care • The public health model • Case management – collaborative care • Crisis intervention • Welfare agencies

		<ul style="list-style-type: none"> • Population at risk • The community as client • Primary prevention • Secondary prevention • Tertiary prevention • Community based rehabilitation • Human rights of mentally ill • Substance abuse • Mentally challenged groups • Role of community health nurse
VII	10	<p>Community Rehabilitation:</p> <ul style="list-style-type: none"> • 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	20	<p>Community Health Nursing Administration and management:</p> <ul style="list-style-type: none"> • Organization of community health nursing practice • Design of sub centre, Primary health centre and Community health centre • Staffing, supervision and monitoring – performance appraisal • Leadership and team approach • Budgeting

		<ul style="list-style-type: none"> • Material management • Quality assurance – standards, protocols, policies and procedures • Nursing audit • Public relations • Documentation and reporting • Planning in-service educational programme and teaching • Roles and responsibilities of personnel in community health • Training of various categories of health workers- preparation of manuals
IX	15	<p>International Health:</p> <ul style="list-style-type: none"> • Global burden of disease • Global health rules to halt disease spread • Global health priorities and programmes • International quarantine • Health tourism • International co-operation and assistance • International travel and trade • Health and food legislation • International health regulations • Migration • International health agencies • International health issues and problems • International nursing practice standards • International health vis-à-vis national health • International health days and their significance
X	5	<p>Community Oriented Research</p> <ul style="list-style-type: none"> • Need for research in community health nursing • Critical review of the selected research studies in community health nursing

PRACTICAL

Total = 1450 Hours

1 Week = 48 Hours

Sl. No	Department/unit	No. of weeks
1	Urban and rural community	8 weeks
2	Sub centre	4 weeks
3	PHC – Participation in all the relevant health programmes	8 weeks
4	Administration of PHC, CHC and District Office	4 weeks
5	Psychiatric unit and community mental health centers	2 weeks
6	Home for the aged and hospice	1 week
7	Community rehabilitation centres and Occupational health unit	1 week
8	Rural health training centre	2 weeks
Total		30 weeks

Categorization of practical activities

Observation Visits

- MCH office and DPHN Office
- CHC /First Referral Unit (FRU)
- Child guidance clinic
- Institute for mentally challenged
- District TB centre
- Community based rehabilitation unit
- Cancer centers
- Palliative care
- Home of old age
- Community Mental health units
- De-addiction centers

- Selected industrial health centers
- ESI unit
- Municipality / Corporation office

Assisted activities

- Laparoscopic sterilization
- Vasectomy
- Monitoring of national health and family welfare programmes
- School health programmes

Activities to be performed

- Conduct various clinics
- School health assessment
- Specific Health survey
- Health assessment
- Drug administration as per the Govt. protocols(MDA and Malarial drug administration)
- Treatment of minor ailments
- Investigating outbreak of epidemic
- Screening for leprosy, TB and non-communicable disease
- Counselling services
- Report writing- Monthly report of subcentre and PHC
- Referrals
- Material management – requisition for indent, condemnation, inventory maintenance,
- Supervision of various categories of personnel
- Organize one in service education Programmes to JPHN/LHI/LHS
- Liaison with NGO's

Method of Evaluation

Theory	Weightage
Sessional examinations (3)	50 %
Seminars	25%
Term paper-1	25%
Total	100%
Practical	
Ongoing clinical evaluation	30%
Internal practical examination	25%
Clinical Assignments	45%
Total	100%

References *:

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- ❖ S Kamalam. Essentials of Community Health Nursing Practices. 2nd edn. Jaypee Brothers. New Delhi 2005.
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- ❖ Ruth B Freeman –Textbook of Primary Health Nursing Practices.
- ❖ G M Dhar, I Robbani-Foundations of Community Medicine. Elsevier.

Note:- * Latest Edition

Annexure-1

Proforma for Submission of M. Sc Nursing Dissertation Proposal/

Synopsis

1. Name & Address of Student:
2. Email ID of the Student:
3. Registration Number:
4. Name & Address of Recognized Institution:
5. Title of the Dissertation:
6. Name of the Guide:
7. Address, phone number and E-mail ID of the Guide:
8. Educational Qualification of the Guide:
9. Experience of teacher in guiding postgraduate students. (in years):
10. Experience of teacher in guiding M.Phil/Ph.D students if any. (in years):
11. Synopsis of the study: Attached – Yes/No

Date:

Signature of the Guide

Enclosures:

I.) Bio- Data of the Guide

II.) Synopsis of the study (maximum 4-6 pages)

Proposal/Synopsis Outline

1. Title
2. Background /significance of the problem.
3. Purpose of the study
4. Statement of the problem
5. Objectives of the study
6. Operational Definitions
7. Conceptual Framework
8. Assumptions/ Hypotheses
9. Research Methodology
 - a) Research Approach
 - b) Research Design
 - c) Setting
 - d) Population,Sample & Sampling Technique
 - e) Tools & Technique
 - f) Pilot Study
 - g) Plan for data collection
 - h) Plan for data analysis
10. Work Plan
11. Budget
12. Ethical Considerations
13. References
14. Appendices

Guidelines in writing synopsis

- The research protocol should be of about 1200 words (4-6 pages of A4 size) on the topic. The research protocol should be submitted with a covering letter signed by the candidate and guide.
- The work on and writing of protocol/ dissertation should be done under the Guide approved by the University.
- The guide must be an active P.G teacher and qualified as per INC and the University norms.
- The synopsis should be signed by the candidate and forwarded through the Guide, Departmental head and Principal of the Institution.

KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES

MEDICAL COLLEGE P.O., THRISSUR – 680 596

PROFORMA FOR RECOGNITION OF POST GRADUATE TEACHER

[Read the instructions carefully before filling up the proforma]

Affix Photo

1. NAME:

(in block letters)

2. DATE OF BIRTH: AGE:

(Attested copy of SSLC marks card / proof of date of birth to be enclosed)

3. PRESENT DESIGNATION:

4. DEPARTMENT:

5. ADDRESS:

COLLEGE ADDRESS	
Phone (o) :	Email:
Hospital:	College Fax:

PRESENT ADDRESS	RESIDENTIAL ADDRESS
Phone (R):	

6. QUALIFICATION:

(Attested Xerox copies of all the certificates to be enclosed)

Sl No.	Name of the Degree and Specialization	Year of Passing	Name of the University and Place	Apex body recognition
UG				
PG				
M.Phil				
Ph.D.				

7. Teaching Experience

Designation	Name of the Institution	Duration of teaching		Subject / 's taught
		UG From -- To	PG From -- To	
Total teaching experience				
Total teaching experience		Before PG _____ After PG _____ Total _____		

Note:

1. Only full time teaching in a teaching institution affiliated to KUHAS / other universities established by law in India is considered as teaching experience.
2. Attested copies of appointment order, relieving order, service certificate, promotion order & PG degree, Nursing Council registration certificate etc., to be enclosed to claim teaching experience.
3. Qualifications and eligibility for appointment and promotion shall be as per Govt. of Kerala and INC guidelines.
4. Application is to be submitted through proper channel.
5. The envelope should be super scribed as 'Proforma for Recognition as Post Graduate Teacher'.
8. Any other relevant information: (Attach a separate sheet)

(Regarding additional qualifications, achievements, publications, awards etc.,)

Declaration by the Teacher

I hereby declare that the above information provided by me is true and correct. I shall take the sole responsibility for any wrong information provided and liable for any action taken by the university.

Place :

Date :

Signature of the Teacher

Endorsement by the Principal

The information provided by the teacher is verified from the office records and found to be correct. He/She is eligible to be recognized as a PG teacher to guide the dissertation work of PG students as per the INC regulations.

Place :

Date :

Signature of the Principal

INSTRUCTIONS:

1. The Prescribed Performa must be duly filled by the applicant in his/her own handwriting and submitted to the university through the principal's office.
2. The Principal should verify all the informations provided especially the date of birth, qualification, experience, and service details before sending the proforma to the university.
3. Ensure that attested copies of all relevant documents are furnished along with the application.
4. The Principal will be held responsible for any false information provided.
5. Incomplete and incorrect applications and applications with false information will be rejected and they are liable for disciplinary action by the university.

KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES
MEDICAL COLLEGE P.O., THRISSUR – 680 596
POST GRADUATE DISSERTATION – PROFORMA TO BE SUBMITTED FOR
CHANGE OF GUIDE

(Please Note: Change of guide is permitted only if the guide leaves the college, transferred to another college, retires or dies.)

Date:

A. Particulars of Candidate, and Existing Guide

Candidate's Name & Address :

Name of the Institution :

Course of Study & Subject :

Date of Admission to Course :

Title of the Topic :

Name & Designation of Existing Guide :

Signature of the Candidate :

B. PARTICULARS OF PROPOSED GUIDE

Name & Designation of proposed Guide :

Has the proposed guide been recognized as PG teacher by KUHAS: Yes / No

If yes, please furnish the particulars of university letter & If No, Please send his/her proforma for recognition as PG teacher

Signature of the proposed Guide:

Name & Designation of Co-Guide if present:

Signature of the Co-Guide:

C: Endorsement for change of guide

1. Remarks and Signature of the HOD :

2. Reason for change of guide:

Resigned / Retired/ any other

3. Remarks and Signature of the Principal:

Format for the submission of Dissertation Hard & Soft copy

Instructions to candidates

Although your dissertation may be prepared on a computer, consider the following requirements for meeting the standards.

Paper

Use only one side of high-quality, plain white (unlined in any way) bond paper, minimum 20-lb weight, and 8 ½" x 11" in size. Erasable paper should not be used.

Type Size and Print

Select fonts type Times New Roman and a size of 12 characters. The size of the titles should be 14 and Bold, the size of subtitles should be 12 and bold. Print should be letter quality or laser (not dot matrix) printing with dark black characters that are consistently clear and dense. Use the same type of print and print size throughout the document.

Pagination

Number all of the pages of your document, including not only the principal text, but also all plates, tables, diagrams, maps, and so on. Roman numerals are used on the preliminary pages (pages up to the first page of text) and Arabic numerals are used on the text pages. The numbers themselves can be placed anywhere on the page, however they should be consistent.

Spacing

Use double spacing except for long quotations and footnotes which are single-spaced.

Margins

To allow for binding, the left-hand margin must be 1.5". Other margins should be 1.0". Diagrams, or photographs in any form should be a standard page size, or if larger, folded so that a free left-hand margin of 1.5" remains and the folded sheet is not larger than the standard page.

Photographs

Professional quality black-and-white photographs are necessary for clear reproduction. Colors are allowed, but you should be certain the colored figure will copy clearly and will not be confusing when printed in black and white.

FILE FORMAT

Dissertation format should be in .Doc (Ms Word Document) or PDF (Portable Document Format), Image files in JPG or TIFF format and Audio Visual in AVI (Audio Video Interleave), GIF, MPEG (moving picture expert) files format.

Labeling on CD

CD-ROM Labeling should be standard and should contain title, name of the candidate, degree name, subject name, guide name, name of the department, college, place and year.

References

Vancouver style format.

<-----Title----->

by

Name of the Candidate

Dissertation Submitted to the

**KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES
THRISSUR**

In partial fulfillment
of the requirements for the degree of

Degree Name

in

Subject Name

**Under the guidance of
Name of the Guide**

**Name of the Department
Name of the College
Place**

Year

DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation/thesis entitled "<-----Title-
----->" is a bonafide and genuine research work carried out by me under
the guidance of **Name & designation of the Guide.**

Signature of the candidate

Date :

Place:

CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "<-----Title-----
-----> "is a bonafide research work done by **Name of the Candidate** in partial
fulfillment of the requirement for the degree of **Degree Name**.

Signature of the Guide

Date :

Name

Place:

ENDORSEMENT BY THE HOD, PRINCIPAL/HEAD OF THE INSTITUTION

This is to certify that the dissertation entitled “<-----Title-----
-----> “is a bonafide research work done by **Name of the Candidate** under the
guidance of **Name & designation of the Guide**.

Seal & Signature of the HOD

Seal & Signature of the Principal

Name

Name

Date :

Date :

Place:

Place:

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ACKNOWLEDGMENT

Not lengthy. Avoid Superlatives.

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Place:

Name

LIST OF ABBREVIATIONS USED

(in alphabetical order)

ABSTRACT

(Max. 200-300 words)

Background & Objectives

Methods

Results

Interpretation & Conclusion

Keywords
(Max. 10)

Keywords shall be chosen from NuSH (Nursing Subject Headings)
(Each keyword should be separated by semicolon)

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1. INTRODUCTION

2. OBJECTIVES

3. REVIEW OF LITERATURE

4. METHODOLOGY

5. RESULTS

6. DISCUSSION

7. CONCLUSION

8. SUMMARY

9. REFERENCES

(Vancouver Format)

Reference list at end of paper

References should be numbered consecutively in the order in which they are first mentioned in the text; they **should not** be listed alphabetically by author or title or put in date order.

Printed publications

Book

Example:

Neal MJ. Medical pharmacology at a glance. Oxford: Blackwell Scientific; 1987.

Rinsgivent MK, Bond D. Gerontology and leadership skills for nurses. 2nd ed. Albany (NY): Delmar Publishers; 1996.

Note: Where there are more than six authors list the first six names, followed by et al. (and others).

Government publication/Corporate author

Example:

Department of Health. Saving lives: our healthier nation. London: Stationery Office; 1999 (Cm 4386). Institute of Medicine (US). Looking at the future of the Medicaid program. Washington: The Institute; 1992.

Report

Example:

Confidential enquiries into stillbirths and deaths in infancy. 5th Report. London: Stationery Office; 1998. Chief Medical Officer's Committee on Medical Aspects of Food. Nutritional aspects of the development of cancer. London: Stationery Office; 1998. (Department of Health report on health and social subjects 48.)

Conference paper in published proceedings

Example:

Bengtsson S, Solheim BG. Enforcement of data protection, privacy and security in medical informatics. In: Lun KC, Degoulet P, Piemme TE, Rienhoff O, editors. MEDINFO 92. Proceedings of the 7th World Congress on Medical Informatics; 1992 Sep 6-10; Geneva, Switzerland. Amsterdam: North-Holland; 1992. p.1561-5.

Journal article

Example:

You CH, Lee KY, Chey YW, Menguy R. Electrogastrographic study of patients with unexplained nausea, bloating and vomiting. *Gastroenterology* 1980;79:311-4.

Vega KJ, Pina I, Krevsky B. Heart transplantation is associated with an increased risk for pancreatobiliary disease. *Ann Intern Med* 1996 Jun 1;124 (11):980-3.

Parkin DM, Clayton D, Black RJ, Masuyer E, Friedl HP, Ivanov E, et al. Childhood leukaemia in Europe after Chernobyl: 5 year follow-up. *Br J Cancer* 1996;73:1006-12.

Cancer in South Africa [editorial]. *S Afr MEd J* 1994;84:15.

Note:

Journal titles which are just a single word are not abbreviated.

The titles of other journals should be abbreviated according to the style used in Index Medicus. Consult the List of Journals Indexed in Index Medicus, published in the January issue of Index Medicus. The list can also be obtained through the NLM's web site (<http://www.nlm.nih.gov>).

Newspaper article

Example:

Lee G. Hospitalizations tied to ozone pollution: study estimates 50,000 admissions annually. *The Washington Post* 1996 Jun 21; Sect. A:3 (col. 5).

Electronic media

Individual works

Example:

CDI, clinical dermatology illustrated [monograph on CD-ROM]. Reeves JRT, Maibach H. CMEA Multimedia Group, 2nd ed. Version 2.0. San Diego: CMEA; 1995.

Journal article

Example:

Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis* [serial online] 1995 Jan-Mar [cited 1996 Jun 5];1(1):[24 screens]. Available from: URL: <http://www.cdc.gov/ncidod/EID/eid.htm>

Computer File

Example:

Hemodynamics III: the ups and downs of hemodynamics [computer program]. Version 2.2. Orlando (FL): Computerized Educational Systems; 1993.

Website (Including the access date)

10. ANNEXURES

Proforma
