

Academic Programme Guide
of
Bachelors of Science in Nursing
(B.Sc. Nursing)

*Based on Choice Based Credit System (CBCS) / Elective Course
System*



w.e.f.

Academic Year: 2022-23

Approved by the 29th Academic Council vide agenda item no.29.4 dated 1-07-2022

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1. GENERAL INFORMATION

The academic programme guide of B.Sc. Nursing Batch-2022 is a comprehensive document based upon The Indian Nursing Council (Revised Regulations and Curriculum for B.Sc. Nursing Program) Regulations, 2020 which provides details about program objectives, course structure under various course category along with year of placement credits per course and the distribution of each course in lecture, tutorial and practical hours. It also details the eligibility criteria for admission, for award of degree, the assessment and evaluation procedures along with a glimpse of the pedagogical aspects of the programs. This guide is to be used in association with the Academic Regulations of the University to make a complete rule set. The course schemes given in this document are approved by respective Board of Studies and the Academic Council of Chitkara University.

1.1 Program Education Objectives (PEO)

PEO- 1 Produce knowledgeable competent nurses and midwives with clear critical thinking skills who are caring, motivated, assertive and well-disciplined responding to the changing needs of profession, healthcare delivery system and society.

PEO- 2 Prepare them to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative and rehabilitative healthcare services in any healthcare setting.

PEO- 3 Prepare nurses and midwives who can make independent decisions in nursing situations within the scope of practice, protect the rights of individuals and groups and conduct research in the areas of nursing practice and apply evidence- based practice.

PEO- 4 Prepare them to assume role of practitioner, teacher, supervisor and manager in all healthcare settings.

1.2 Programme Outcomes:

On completion of the four year B.Sc. Nursing program, the graduates will be able to:

PO 1: Utilize critical thinking to synthesize knowledge derived from physical, biological, behavioural sciences, and humanities, in the practice of professional nursing and midwifery.

PO 2: Practice professional nursing and midwifery competently and safely in diverse settings, utilizing caring, critical thinking and therapeutic nursing interventions with individuals, families, populations and communities at any developmental stage and with varied lived health experiences.

PO 3: Provide promotive, preventive and restorative health services in line with national health policies and programs.

PO 4: Integrate professional caring into practice decisions that encompass values, ethical, and moral and legal aspects of nursing.

PO 5: Respect the dignity, worth, and uniqueness of self and others.

PO 6: Apply concepts of leadership, autonomy and management to the practice of nursing and midwifery to enhance quality and safety in health care.

PO 7: Utilize the latest knowledge and skills related to information and technology to enhance patient outcomes.

PO 8: Communicate effectively with patients, peers, and all health care providers.

PO 9: Utilize the requisite knowledge, skills and technologies to practice independently and collaboratively with all health professionals applying the principles of safety and quality improvement.

PO 10: Integrate research findings and nursing theory in decision making in evidence-based practice.

PO 11: Accept responsibility and accountability for the effectiveness of one's own nursing and midwifery practice and professional growth as a learner, clinician and leader.

PO 12: Participate in the advancement of the profession to improve health care for the betterment of the global society.

1.3 University Vision and Mission

University Vision:

To be a globally recognized organization promoting academic excellence through interdisciplinary applied research and to expand realms of knowledge through innovation.

University Mission:

M1: To carry out the academic processes in accordance with global standards through active teacher-student-industry participation.

M2: To promote research, innovation and entrepreneurship in collaboration with industry, research laboratories and academic institutions of global repute.

M3: To inculcate high moral, ethical and professional values amongst our students, faculty & staff.

M4: To contribute in building skilful society.

The programme outcomes are focused on preparing graduates as professional competent nurses & midwives in providing promotive, preventive, curative & rehabilitative services in line with the SDG-3. Further, it is aimed at preparing the graduates who will be able to make independent decisions in nursing situations, protect the rights of & facilitate individuals & groups in pursuit of health, function in the hospital, community nursing services & conduct research studies in the areas of nursing practice. Further, the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

College of Nursing is committed to provide high-quality educational opportunities to prepare the student nurses to function as a professional nurse providing safe, compassionate, ethical, quality and evidence-based comprehensive nursing care in order to achieve SDG 3 focused on Good health and well-being of individuals. Critical thinking skills in making patient care decisions and nursing practice within the framework of code of ethics and professional conduct is promoted. Nursing curriculum emphasizes on the use of information and technology to correspond, lessen error, and support decision making among the students. Faculty is committed to provide didactic and clinical experiences so that students can achieve Global health competencies which will promote global citizenship and achievement of SDGs. Distinct pedagogical and clinical

approaches for implementing SDG content into the curriculum are provided including an exploration of global health competencies and their relationship to the SDGs. Finally, academic-community collaboration is promoted through research and health care services to strengthen the health of communities and embark on realizing the SDGs at a local level.

1.4: Placement Opportunities

On completion of the B.Sc. Nursing, they can work as Clinical nurses, managers, researchers and educators who will possess the professional knowledge, critical thinking, ethical decision-making, leadership skills, and the independent and interdisciplinary pursuit of high standards of health care.

2. ELIGIBILITY FOR ADMISSION

1. The minimum age for admission shall be 17 years on 31st December of the year in which admission is sought. The maximum age limit for admission shall be 35 years.
2. Minimum Educational Qualification
 - a) Candidate with Science who has passed the qualifying 12th Standard examination (10+2) and must have obtained a minimum of 45% marks in Physics, Chemistry and Biology taken together and passed in English individually.
 - b) Candidates are also eligible from State Open School recognized by State Government and National Institute of Open School (NIOS) recognized by Central Government having Science subjects and English only.
 - c) English is a compulsory subject in 10+2 for being eligible for admission to B.Sc. (Nursing).
3. Colour blind candidates are eligible provided that colour corrective contact lens and spectacles are worn by such candidates.
4. Candidate shall be medically fit.
5. Married candidates are also eligible for admission.
6. Students shall be admitted once in a year.
7. Reservation Policy
 - Reservation of seats in for admission in Nursing Colleges for SC/ST/OBC/EWSs/PH. Admission under the reserved quota shall be subject to reservation policy and eligibility

criteria for SC/ST/OBC/EWSs prescribed by the Central Govt./State Govt./Union Territory as applicable to the College concerned. In respect of candidates belonging to SC/ST/OBC the marks obtained in 3 core subjects shall be 40% instead of 45% for General category candidates.

- Reservation for disability: 5% Disability reservation to be considered for disabled candidates with a disability of loco-motor to the tune of 40% to 50% of the lower extremity and other eligibility criteria with regard to qualification will be same as prescribed for General category candidates. The upper age limit shall be relaxed by 5 years for disabled candidates.
8. Foreign Nationals: The entry qualification equivalency i.e., 12th standard shall be obtained by Association of Indian Universities, New Delhi. Institution, SNRC and University will be responsible to ensure that the qualification and eligibility will be equivalent to what has been prescribed by the Council.

3. PROGRAMME DURATION

The duration of the B.Sc. Nursing program is four years in which 8th Semester will be internship period. The Chitkara University College of Nursing has collaboration with Paras Healthcare, Panchkula and Malhotra superspeciality Hospital, Baddi which provides the necessary 'hands-on' clinical experience; imperative for the students pursuing this hospital based academic program. There is University end term examination at the end of each semester. The maximum duration for completion of degree is 8 years.

One Semester plan for first Seven Semesters:

Total weeks: 26 weeks per semester

Number of Weeks per Semester for instruction: 20 weeks (40 hours per week × 20 weeks = 800 hours)

Number of Working Days: Minimum of 100 working days (5 days per week × 20 weeks)

Rest 6 weeks: Vacations, Holidays, Examination and preparatory holidays

8th Semester: 22 weeks

Rest 4 weeks: Vacations, Holidays, Examination and preparatory holidays

4. PEDAGOGICAL ASPECTS

The structural layout of the program and its courses requires that each course be divided in theory lecture, lab hours and clinical hours. Duration of each lecture will be 1 hour.

Lecture sessions: Lectures are delivered by the teacher using whiteboard supplemented by modern Information Communication technology (ICT) methods. The students are encouraged to ask questions and involve in group discussion to the extent allowed by the teacher. In some subjects where case study-based methodology is adopted, the lectures are supplemented by discussions on case studies.

Lab / Practical Sessions: During lab / practical sessions, the students work on prescribed list of procedures which is based on what they have learnt in the Lecture.

Clinical Training: The students will be imparted clinical training in Paras Hospital, Panchkula and other specialized hospitals according to the specialized training requirements of the students. For the community health experience, they will be sent to nearby Community health centers and primary health centers.

Internal Project: Students will conduct Group Research Projects in various settings and utilize the research findings to provide quality Nursing Care.

5. PROGRAMME STRUCTURE

At Chitkara University, Bachelors of Science in Nursing is a 4-year degree program based on choice based credit system. It is a flexible system of learning which allows students to undergo additional courses and acquire more than the required number of credits. This program is recognized by Himachal Pradesh Nursing Registration Council. The strong academia-industry linkage is the focus to render expertise in theory and technical abilities among the students in order to enhance their future prospective at an international repute.

Further, outcome based education has been implemented to build employability, entrepreneurship and competency/skills among nursing students through all the courses being offered to them so that the graduating nurses are well equipped with the latest knowledge and skills which in turn would make them more employable and promote entrepreneurship amongst them.

There are total 12 POs of B.Sc Nursing Programme and these POs are aligned within the mission and vision of the University. POs attainment is calculated at the end of each programme by direct and indirect assessment. Direct PO attainment is based on the students' formative and summative assessment whereas indirect PO attainment involves feedback of alumni and Employer.

There are 5-7 well-defined course learning outcomes (CLOs) of each course/subject based on content of the syllabus and evaluation component, which are mentioned in course handout of each subjects. These CLOs have to be achieved at the end of respective course. Therefore, POs have strong linkage with all CLOs of particular program that relationship is measured on the scale of 1-3.

The B.Sc. (Nursing) program includes total 156/157/158 credits distributed across theory component and practical component in each year following the curriculum guidelines of Indian Nursing Council (INC). The detail of year-wise distribution of credits is given as under:

Table 1: Programme Structure

| Semester | Theory Credit | Theory Hours | Lab Credits | Lab Hours | Practical Credit | Practical Hours | Total Credits | Total Hours |
|--|--|--|-------------|------------|------------------|-----------------|---|--|
| First | 20 | 400 | 2 | 80 | 2 | 160 | 24 | 640 |
| Second | 13 | 260 | 4 | 160 | 4 | 320 | 21 | 740 |
| Third | 11 | 220 | 2 | 80 | 6 | 480 | 19 | 780 |
| Fourth | 12 | 240 | 1 | 40 | 6 | 480 | 19 | 760 |
| Fifth | 14 | 280 | 2 | 80 | 5 | 400 | 21 | 760 |
| Sixth | 10 | 200 | 1 | 40 | 7 | 560 | 18 | 800 |
| Seventh | 10 | 200 | 3 | 120 | 6 | 480 | 19 | 800 |
| Eight (internship) | 1 ^s /2 ^{ss} | 20 ^s /30 ^{ss} | - | - | 12 | 1056 | 12/13 ^s /14 ^{ss} | 1056/1076 ^s /1086 ^{ss} |
| 3 Elective courses (across the semester from 3 rd to eight) | 3 | 60 | | | | | 3 | 60 |
| Total Credits | 90/91^s/92^{ss} | 1860/1880^s/1890^{ss} | 15 | 600 | 36 | 3936 | 156/157^s/158^{ss} | 6396/6416^s/6426^{ss} |

Note: 1 credit = 20 hours for theory. If any course has more than 20 hours, but less than 40 hours, that course will be given 2 credits.

1 credit = 40 hours for Lab.

1 credit= 80 for practical

^{\$} Applicable ONLY for the students who will study an additional subject Leadership Development & Practice in Eight semester and it is of 20 hours.

^{\$\$} Applicable ONLY for the students who will study an additional subject Advance Research Methodology in Eight semester and it is of 30 hours.

- Course Code Scheme is being followed as given by INC
- The whole B.Sc. Nursing program is divided into three categories; theory, lab and practical (Table 2) as mentioned below:

| SEMESTER– I | | | | | |
|--|---------------------|---|------------|--------------------|----------------|
| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
| Theory | *ENGL 101 | Communicative English | 2 | 40 | - |
| Theory | ANAT 105 & PHYS 110 | Applied Anatomy & Applied Physiology | 6 (3+3) | 120 (60+60) | - |
| Theory | SOCI 115 & PSYC 120 | Applied Sociology & Applied Psychology | 6 (3+3) | 120 (60+60) | - |
| Theory | **Qu-N-NFL (I) 125 | Nursing Foundation I including first aid module | 6 | 120 | - |
| Practical | **Qu-N-NFP(I) 125 | Nursing Foundation I including first aid module (Practical) | 4 (2+2) | 80 | 160 |
| Self Study/Co-Curriculum | SSCC(I) 130 | | - | 80 (40+40) | |
| Total Credits and Hours | 24 | 560 | 160 | | |
| <p>*ENGL 101 College Exam, Marks are not added for calculating SGPA, Pass marks: 40%</p> <p>**ETE will be held in next semester and the internal assessment marks and credits will be reflected in Nursing Foundation II incl Health Assessment module (Theory & Practical). Total weightage remains the same).</p> <p>Qu: Qualifying Examination is the course without the benefits of grade but is required for the completion of degree.</p> | | | | | |

The whole B.Sc. Nursing program is divided into three categories; theory, lab and practical (Table 2) as mentioned below:

| SEMESTER– II | | | | | |
|--------------------------|--------------------|---|-----------|--------------------|----------------|
| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
| Theory | BIOC 135& NUTR 140 | Applied Biochemistry and Applied Nutrition & Dietetics | 5 (2+3) | 100 (40+60) | - |
| Theory | N-NFL(II) 125 | Nursing Foundation II Incl Health Assessment module | 6 | 120 | - |
| Theory | *HNIT 145 | Health/Nursing Informatics & Technology | 3 (2+1) | 80 (40+40) | - |
| Practical | N-NFP (II) 125 | Nursing Foundation (II) Incl Health Assessment module (Practical) | 7 (3+4) | 120 | 320 |
| Self Study/Co-Curriculum | SSCC(II) 130 | | - | 60 (40+20) | |
| | | | 21 | 480 | 320 |
| *HNIT 145 College Exam | | | | | |

| SEMESTER- III | | | | | |
|---|--------------------------------|--|------------|--------------------|----------------|
| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
| Theory | MICR 201 | Applied Microbiology and Infection Control including Safety | 2+1 | 80 (40+40) | - |
| Theory | **Qu-PHAR (I) 205 PATH (I) 210 | Pharmacology I and Pathology I | 1+1 | 20+20 | - |
| Theory | N-AHNL(I) 215 | Adult Health Nursing I with integrated Pathophysiology including BCLS module | 7 | 140 | - |
| Theory | ##HUL2401 | Cyber Security | - | 15 | - |
| Practical | N-AHNP (1) 215 | Adult Health Nursing I with integrated Pathophysiology including BCLS module (Practical) | 7 (6+1) | 40 | 480 |
| Self Study/Co-Curriculum | SSCC(I) 220 | | - | 20 | |
| Total Credits and Hours | 19 | 335 | 480 | | |
| Total Credits and Hours | | | 19 | 335 | 480 |
| <p>**ETE will be held in next semester and the internal assessment marks and credits will be reflected in Pharmacology (I & II) & Pathology (I & II) (including Genetics) in the next semester (Total Weightage remains the same).</p> <p>## Cyber Security an online Course UGC mandatory Course</p> | | | | | |

SEMESTER- IV

| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
|---|-----------------------------------|---|-----------|--------------------|----------------|
| Theory | PHAR (II) 205 PATH (II) 210 | Pharmacology(II) including fundamentals of prescribing module & Pathology (II) (including Genetics) | 4 (3+1) | 80 (60+20) | - |
| Theory | N-AHNL(II) 225 | Adult Health Nursing II with integrated Pathophysiology including Geriatric Nursing & Palliative care module | 7 | 140 | - |
| Theory | *PROF 230 | Professionalism, Professional Values and Ethics including Bioethics | 1 | 20 | - |
| Practical | N-AHNP(II) 225 | Adult Health Nursing II with integrated Pathophysiology including Geriatric Nursing + Palliative care module (Practical) | 7 (6+1) | 40 | 480 |
| Self Study/Co- Curriculum | SSCC(II) 220 | | - | 40 | |
| Total Credits and Hours | | | 19 | 320 | 480 |
| * PROF 230 College Exam, Marks are not added for calculating SGPA, Pass marks: 40% | | | | | |
| #Elective Module 1(1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40% | | | | | |

SEMESTER– V

| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
|---|-------------------|--|-----------|--------------------|----------------|
| Theory | **Qu-N-CHNL(I)301 | Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and PLS, modules | 3 | 60 | - |
| Theory | **Qu-N-MHNL(I)305 | Mental Health Nursing I | 3 | 60 | - |
| Theory | N-COMHL(I)310 | Community Health Nursing I including Environmental Science & Epidemiology | 5 | 100 | - |
| Theory | EDUC 315 | Educational Technology/Nursing Education | 3 (2+1) | 80 (40+40) | - |
| Theory | *N-FORN 320 | Introduction to Forensic Nursing | 1 | 20 | - |
| Practical | **Qu-N-CHNP(I)301 | Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and PLS, modules (Practical) | 3 (2+1) | 40 | 160 |
| Practical | **Qu-N-MHNP(I)305 | Mental Health Nursing I (Practical) | 1 | - | 80 |
| Practical | N-COMHP(I)310 | Community Health Nursing I including Environmental Science & Epidemiology (Practical) | 2 | - | 160 |
| Self Study/Co-Curriculum | SSCC(I) 325 | | - | 40 (20+20) | |
| Total Credits and Hours | | | 21 | 400 | 400 |
| <p>**ETE will be held in next semester and the internal assessment marks and credits will be reflected in Child Health Nursing (I & II) (theory & practical) and Mental Health Nursing (I&II) (theory & practical) in the next semester (Total weightage remains the same).</p> <p>* N-FORN 320 College Exam, Marks are not added for calculating SGPA, Pass marks: 40%</p> | | | | | |

| SEMESTER– VI | | | | | |
|---|---------------------------|---|-----------|--------------------|----------------|
| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
| SEMESTER– VI | N-CHNL(II)301 | Child Health Nursing (II) | 2 | 40 | - |
| Theory | N-MHNL (II) 305 | Mental Health Nursing (II) | 2 | 40 | - |
| Theory | NMLEL 330 | Nursing Management & Leadership | 3 | 60 | - |
| Theory | **Qu-N-MIDWL(I)/O BGN 335 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module | 3 | 60 | - |
| Practical | N-CHNP(II)301 | Child Health Nursing (II) (Practical) | 1 | | 80 |
| Practical | N-MHNP(II) 305 | Mental Health Nursing (II) (Practical) | 2 | - | 160 |
| Practical | NMLEP 330 | Nursing Management & Leadership (Practical) | 1 | - | 80 |
| Practical | **Qu-N-MIDWP(I)/O BGN335 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module (Practical) | 4 (3+1) | 40 | 240 |
| Self Study/Co-Curriculum | SSCC(II) 325 | | - | - | - |
| Total Credits and Hours | | | 18 | 240 | 560 |
| <p>** ETE will be held in next semester and the internal assessment marks and credits will be reflected in Midwifery/Obstetrics & Gynaecology (OBG) Nursing I &II (theory & practical) in the next semester (Total weightage remains the same).</p> <p>#Elective Module 2 (1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40%</p> | | | | | |

SEMESTER– VII

| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
|--------------------------------|------------------------|--|-----------|--------------------|----------------|
| Theory | N-COMHL(II) 401 | Community Health Nursing II | 5 | 100 | - |
| Theory | NRST 405 | Nursing Research & Statistics | 4(2+2) | 120(40+80) | - |
| Theory | N-MIDWL(II)/OB GN 410 | Midwifery/Obstetrics & Gynaecology (OBG) Nursing II including safe delivery app module | 3 | 60 | - |
| Practical | N-COMHP(II) 401 | Community Health Nursing II (Practical) | 2 | - | 160 |
| Practical | N-MIDWP (II) /OBGN 410 | Midwifery/Obstetrics & Gynaecology (OBG) Nursing II (Practical) | 5 (4+1) | 40 | 320 |
| Total Credits and Hours | | | 19 | 320 | 480 |

SEMESTER– VIII

| Course Category | Course Code | Title of Course | Credits | Theory/Lab (Hours) | Clinical Hours |
|-----------------|--|---|---|--------------------|----------------|
| Theory | LDP1418 ^{\$} / ARM2419 ^{\$\$} | Leadership Development & Practice / Advance Research Methodology (CBCS) | 1/2 | 30/45 | - |
| Practical | INTE 415 | Community Health Nursing- 4 weeks | 2 | | 192 |
| Practical | INTE 420 | Adult Health Nursing -6 weeks | 4 | | 288 |
| Practical | INTE 425 | Child Health Nursing - 4 weeks | 2 | | 192 |
| Practical | INTE 430 | Mental Health Nursing - 4 weeks | 2 | | 192 |
| Practical | INTE 435 | Midwifery/OBG Nursing - 4 weeks | 2 | | 192 |
| Total | | | 12/13^{\$}/14^{\$\$} | - | 1056 |

#Elective Module 3 (1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40%

^{\$} Applicable ONLY for the students who will study an additional subject Leadership Development & Practice (CBCS) in Eight semester and it is of 20 hours.

^{\$\$} Applicable ONLY for the students who will study an additional subject Advance Research Methodology (CBCS) in Eight semester and it is of 30 hours.

Note:

1 credit theory – 1 hour per week per semester

1 credit practical/lab/skill lab/simulation lab

– 2 hours per week per semester 1 credit

clinical – 4 hours per week per semester

1 credit elective course – 1 hour per week per semester

Total Semesters = 8

(**Seven semesters:** One semester = 20 weeks × 40 hours per week = 800 hours)

(**Eighth semester – Internship:** One semester = 22 weeks × 48 hours per week = 1056 hours)

Total number of course credits including internship and electives – 156 (141+12+3)

Table 3: General Elective Courses By UGC

| General Elective Courses By UGC | | |
|---------------------------------|-------------|---------|
| Title of courses | Course Code | Credits |
| NCC (National Cadet Corps) | NC101 | 2 |
| NSS (National Service Scheme) | NS101 | 2 |

As per UGC notification vide D.O No. 1-8 /2019(CPP-II) dated 15th April, 2021 and Notification vide D.O.No.F.1-7/2011(CPP-II) dated 13th August, NCC and NSS as general elective two (2) credit course for all the students who enroll themselves as an NCC and NSS cadets. NCC and NSS courses, credit and the grade earned will be reflected only once in the semester of students.

| MANDATORY COURSE BY UGC | | | |
|-------------------------|-------|---------|--------------------------|
| Title of courses | Hours | Credits | Semester of Placement |
| Cyber Security | 15 | - | 3 rd semester |

| ELECTIVE COURSES BY INC | | |
|-------------------------|------------------------------|--|
| Title of courses | Credits (1 credit=20 hrs) | Semester of placement |
| Human values | 1 | 4 th semester (Any one out of three to be |
| Diabetes care | 1 | |

| | | |
|---|---|--|
| Soft skills | 1 | completed) |
| CBT | 1 | 6 th semester (Any one out of nine to be completed) |
| Personality development | 1 | |
| Addiction psychiatry | 1 | |
| Adolescent health | 1 | |
| Sports health | 1 | |
| Accreditation and practice standards | 1 | |
| Developmental psychology | 1 | |
| Menopausal health | 1 | |
| Health economics | 1 | |
| Scientific writing skills | 1 | 8 th semester (Any one out of five to be completed) |
| Lactation management | 1 | |
| Sexuality and health | 1 | |
| Stress management | 1 | |
| Job readiness and employability in healthcare setting | 1 | |

MANDATORY MODULES BY INC

The modules are outlined by the Indian Nursing Council such as Health Assessment & Fundamentals of Prescribing and available modules as National Guidelines (First Aid – NDMA, IMNCI, ENBC, FBNBC), Palliative Care, Safe Delivery App and SBA module will be provided in separate learning resource package by INC

For BCLS, PLS – Standard national/international modules will be used.

Courses Division Under Course Category

The courses of B.Sc. Nursing program are divided into four course categories – Foundational course, core course, general electives and value-added courses as shown in figure given below.



6. ASSESSMENT AND EVALUATION

The evaluation of theory and practical will be continuous, and the weightage of various components is as given below semester-wise:

SEMESTER I

| S. No. | Name of the Course | Continuous Assessment | Sessional Exams – Theory/ Practical | Total Internal Marks |
|--------|---|-----------------------|-------------------------------------|----------------------|
| | Theory | | | |
| 1 | Communicative English | 10 | 15 | 25 |
| 2 | Applied Anatomy & Applied Physiology | 10 | 15 | 25 |
| 3 | Applied Sociology & Applied Psychology | 10 | 15 | 25 |
| 4 | Nursing Foundation I including first aid module | 10 | 15 | 25 |
| | Practical | | | |
| 5 | Nursing Foundation I including first aid module (Practical) | 10 | 15 | 25 |

SEMESTER II

| S. No. | Course | Continuous Assessment | Sessional Exams – Theory/ Practical | Total Marks |
|--------|--|-----------------------|-------------------------------------|-----------------------------------|
| | Theory | | | |
| 1 | Applied Biochemistry and Applied Nutrition & Dietetics | 10 | 15 | 25 |
| 2 | Nursing Foundations I & II incl Health Assessment module | 10 | 15 | 25 I & II = 25+25 = 50/2 |
| 3 | Health/Nursing Informatics & Technology | 10 | 15 | 25 |
| | Practical | | | |
| 4 | Nursing Foundations I & II incl Health Assessment module (Practical) | 10 | 15 | 25 I & II = 25+25 = 50 |

SEMESTER III

| S. No. | Course | Continuous Assessment | Sessional Exams – Theory/ Practical | Total Marks |
|--------|---|-----------------------|-------------------------------------|-------------|
| | Theory | | | |
| 1 | Applied Microbiology and Infection Control including Safety | 10 | 15 | 25 |
| 2 | Pharmacology I and Pathology I | 10 | 15 | 25 |

| | | | | |
|---|--|----|----|----|
| 3 | Adult Health Nursing I with integrated pathophysiology including BCLS module | 10 | 15 | 25 |
| | Practical | | | |
| 4 | Adult Health Nursing I with integrated pathophysiology including BCLS module (Practical) | 20 | 30 | 50 |

SEMESTER IV

| S.No. | Course | Continuous Assessment | Sessional Exams – Theory/Practical | Total Marks |
|-------|---|-----------------------|------------------------------------|-----------------------------|
| | Theory | | | |
| 1 | Pharmacology (I& II) & Pathology(I& II) (including Genetics) | 10 | 15 | 25 I & II = 25+25 = 50/2 |
| 2 | Adult Health Nursing II with integrated pathophysiology including Geriatric Nursing | 10 | 15 | 25 |
| 3 | Professionalism, Professional values & Ethics including Bioethics | 10 | 15 | 25 |
| | Practical | | | |
| 4 | Adult Health Nursing II with integrated pathophysiology including Geriatric Nursing (Practical) | 20 | 30 | 50 |

SEMESTER V

| S. No. | Course | Continuous Assessment | Sessional Exams – Theory/ Practical | Total Marks |
|--------|--|-----------------------|-------------------------------------|-------------|
| | Theory | | | |
| 1 | Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and PLS, modules | 10 | 15 | 25 |
| 2 | Mental Health Nursing I | 10 | 15 | 25 |
| 3 | Community Health Nursing I including Environmental Science & Epidemiology | 10 | 15 | 25 |
| 4 | Educational Technology/ Nursing education | 10 | 15 | 25 |
| 5 | Introduction to Forensic Nursing | 10 | 15 | 25 |
| | Practical | | | |
| 6 | Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and | 10 | 15 | 25 |

| | | | | |
|---|---|----|----|----|
| | PLS, modules (Practical) | | | |
| 7 | Mental Health Nursing I (Practical) | 10 | 15 | 25 |
| 8 | Community Health Nursing I including Environmental Science & Epidemiology (Practical) | 20 | 30 | 50 |

SEMESTER VI

| S. No | Course | Continuous Assessment | Sessional Exams - Theory/ Practical | Total Marks |
|-------|---|-----------------------|-------------------------------------|-----------------------------|
| | Theory | | | |
| 1 | Child Health Nursing (I & II) | 10 | 15 | 25 I & II = 25+25 = 50/2 |
| 2 | Mental Health Nursing (I & II) | 10 | 15 | 25 I & II = 25+25 = 50/2 |
| 3 | Nursing Management and Leadership | 10 | 15 | 25 |
| 4 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module | 10 | 15 | 25 |
| | Practical | | | |
| 5 | Child Health Nursing (I & II) (Practical) | 10 | 15 | 25 I & II = 25+25 = 50 |
| 6 | Mental Health Nursing (I & II) (Practical) | 10 | 15 | 25 I & II = 25+25 = 50 |
| 7 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module (Practical) | 10 | 15 | 25 |

SEMESTER VII

| S. No | Course | Continuous assessment | Sessional Exams - Theory/ Practical | Total Marks |
|-------|--|-----------------------|-------------------------------------|-----------------------------|
| | Theory | | | |
| 1 | Community Health Nursing II | 10 | 15 | 25 |
| 2 | Nursing Research & Statistics | 10 | 15 | 25 |
| 3 | Midwifery/Obstetrics and Gynecology (OBG) Nursing I & II | 10 | 15 | 25 I & II = 25+25 = 50/2 |
| | Practical | | | |

| | | | | |
|---|--|----|----|---------------------------|
| 4 | Community Health Nursing II | 20 | 30 | 50 |
| 5 | Midwifery/Obstetrics and Gynecology (OBG) Nursing I & II (Practical) | 10 | 15 | 25 I & II = 25+25 = 50 |

SEMESTER VIII (Internship)

| S.No. | Course | Continuous performance evaluation | OSCE | Total Marks |
|-------|--|--|--|-------------|
| 1 | Competency assessment – 5 specialties × 20 marks | Each specialty – 10 5×10 = 50 marks | Each specialty – 10 5×10 = 50 marks | 100 |

Evaluation components for Theory Courses

| For Theory Courses | |
|--|----------------|
| Internal assessment | Weightage |
| Component 1: Continuous assessment | 10 |
| Attendance – (95-100%: 2 marks, 90-94: 1.5 marks, 85-89: 1 mark, 80-84: 0.5 mark, <80: 0) | 2 |
| Written assignments 2 | 10 |
| Seminar/Microteaching/individual presentation (two) | 12 |
| Group project/work/report | 6 |
| Total If there is mandatory module in that semester, marks obtained by student out of 10 can be added to 30 totalling 40 marks Total 40/4=10 marks | 30/3=10 |
| Component 2: Sessional Exam. | 15 |
| ST -Two STs per course | |
| Total | 15 |

Evaluation Components for Practical Courses

| For Practical Courses | |
|---|-----------|
| Internal assessment | Weightage |
| Component 1: Continuous assessment | 10 |
| Attendance – 2 marks (95-100%: 2 marks, 90-94: 1.5 marks, 85-89: 1 mark, 80-84: 0.5 mark, <80: 0) | 2 |
| Clinical assignments – 10 marks (Clinical presentation – 3, drug presentation & report – 2, case study report – 5) | 10 |

| | |
|--|----------------|
| Continuous evaluation of clinical performance – 10 marks | 10 |
| End of posting OSCE – 5 marks | 5 |
| Completion of procedures and clinical requirements – 3 marks | 3 |
| Total | 30/3=10 |
| Component 2: Sessional Exam. | 15 |
| OSCE | 10 |
| DOP (Directly observed practical in the clinical setting) | 20 |
| Total | 30/2=15 |

Note: For Adult Health Nursing I, Adult Health Nursing II, Community Health Nursing I & Community Health Nursing II, the marks can be calculated as per weightage. Double the weightage as 20 marks for continuous assessment and 30 for sessional exams.

COMPETENCY ASSESSMENT: (VIII SEMESTER)

Internal assessment

Clinical performance evaluation – 10×5 specialty = 50 marks

OSCE = 10×5 specialty = 50 marks

Total = 5 specialty \times 20 marks = 100

UNIVERSITY THEORY QUESTION PAPER PATTERN (For 75 marks)

1. Section A – 37 marks and Section B – 38 marks

- Applied Anatomy & Applied Physiology: Applied Anatomy – Section A and Applied Physiology – Section B
- Applied Sociology & Applied Psychology: Applied Sociology – Section A and Applied Psychology – Section B
- Applied Microbiology & Infection Control including Safety: Applied Microbiology – Section A and Infection Control including Safety – Section B

Section A (37 marks)

MCQ – $6 \times 1 = 6$

Essay – $1 \times 10 = 10$

Short – $3 \times 5 = 15$

Very Short – $3 \times 2 = 6$

Section B (38 marks) MCQ – $7 \times 1 = 7$

Essay – $1 \times 10 = 10$

Short – $3 \times 5 = 15$

Very Short – $3 \times 2 = 6$

2. Section A – 25 marks and Section B – 50 marks

Applied Biochemistry & Nutrition & Dietetics: Applied Biochemistry – Section A and Applied Nutrition & Dietetics – Section B

Section A (25 marks)

MCQ – $4 \times 1 = 4$

Short – $3 \times 5 = 15$

Very Short – $3 \times 2 = 6$

Section B (50 marks) MCQ – $8 \times 1 = 8$

Essay/situation type – $1 \times 10 = 10$

Short – $4 \times 5 = 20$

Very Short – $6 \times 2 = 12$

3. Section A – 38 marks, Section B – 25 marks and Section C – 12 marks

Pharmacology, Pathology and Genetics: Pharmacology – Section A, Pathology – Section B and Genetics – Section C

Section A (38 marks)

MCQ – $7 \times 1 = 7$

Essay – $1 \times 10 = 10$

Short – $3 \times 5 = 15$

Very Short – $3 \times 2 = 6$

Section B (25 marks) MCQ – $4 \times 1 = 4$

Short – $3 \times 5 = 15$

Very Short – $3 \times 2 = 6$

Section C (12 marks) MCQ – $3 \times 1 = 3$

Short – $1 \times 5 = 5$

Very Short – $2 \times 2 = 4$

4. Section A – 55 marks and Section B – 20 marks

Research and Statistics: Research – Section A and Statistics – Section B

Section A (55 marks)

MCQ – $9 \times 1 = 9$

Essay/situation type – $2 \times 15 = 30$

Short – $2 \times 5 = 10$

Very Short – $3 \times 2 = 6$

Section B (20 marks) MCQ – $4 \times 1 = 4$

Short – $2 \times 5 = 10$

Very Short – $3 \times 2 = 6$

5. Marks 75 (For all other university exams with 75 marks)

MCQ – $12 \times 1 = 12$

Essay/situation type – $2 \times 15 = 30$

Short – $5 \times 5 = 25$

Very Short – $4 \times 2 = 8$

6. College Exam (End of Semester) – 50 marks (50/2 = 25 marks)

MCQ – $8 \times 1 = 8$

Essay/situation type – $1 \times 10 = 10$

Short – $4 \times 5 = 20$

Very Short – $6 \times 2 = 12$

II. UNIVERSITY PRACTICAL EXAMINATION – 50 marks

OSCE – 15 marks

DOP – 35 marks

III. COMPETENCY ASSESSMENT – University Exam (VIII SEMESTER)

Integrated OSCE including all 5 specialties (Stations based on every specialty) = 5 specialty $5 \times 20 = 100$ marks

Total of 5 Examiners: external – 2 and internal – 3 (One from each specialty)

Internal examiners may be chosen from college faculty with required qualification or from hospital with required qualification.

SCHEME OF EXAMINATION

| SEMESTER –I | | | | | | | |
|---|---|------------------------|------------|------------------------------|---------------------------------|-------|-------|
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Theory | | | | | | | |
| 1 | Communicative English | *ENGL 101 | 25 | 25 | | 2 | 50 |
| 2 | Applied Anatomy & Applied Physiology | ANAT 105 & PHYS 110 | 25 | | 75 | 3 | 100 |
| 3 | Applied Sociology & Applied Psychology | SOCI 115 & PSYC 120 | 25 | | 75 | 3 | 100 |
| 4 | Nursing Foundation I including first aid module | **Qu-N-NFL (I) 125 | *25 | | | | |
| Practical and Viva voce | | | | | | | |
| 5 | Nursing Foundation I including first aid module (Practical) | **Qu-N-NFP (I) 125 | *25 | | | | |
| <p>*ENGL 101 College Exam, Marks are not added for calculating SGPA, Pass marks: 40%</p> <p>**ETE will be held in next semester and the internal assessment marks and credits will be reflected in Nursing Foundation II incl Health Assessment module (Theory & Practical). (Total weightage remains the same).</p> <p>Qu: Qualifying Examination is the course without the benefits of grade but is required for the completion of degree.</p> | | | | | | | |
| SEMESTER –II | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Theory | | | | | | | |
| 1 | Applied Biochemistry and Applied Nutrition & Dietetics | BIOC 135 & NUTR 140 | 25 | | 75 | 3 | 100 |
| 2 | Nursing Foundation I & II Incl Health Assessment module | N-NFL(I & II) 125 | 25 | | 75 | 3 | 100 |
| 3 | Health/Nursing Informatics & Technology | *HNIT 145 | 25 | 25 | | 2 | 50 |
| Practical and Viva voce | | | | | | | |
| 4 | Nursing Foundation I & II Incl | N-NFP(I & II) 125 | 50 | | 50 | | 100 |

| | Health Assessment module | | | | | | |
|---|--|--------------------------------------|---------------------------|------------------------------|---------------------------------|-------|-------|
| *HNIT 145 College Exam | | | | | | | |
| SEMESTER –III | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| 1 | Applied Microbiology and Infection Control including Safety | MICR 201 | 25 | | 75 | 3 | 100 |
| 2 | Pharmacology I and Pathology I | **Qu-PHAR (I) 205 PATH (I) 210 | *25 | | | | |
| 3 | Adult Health Nursing I with integrated Pathophysiology including BCLS module | N-AHNL(I) 215 | 25 | | 75 | 3 | 100 |
| 4 | Cyber Security | ##HUL2401 | Online Certificate course | | | | |
| Practical and Viva voce | | | | | | | |
| 5 | Adult Health Nursing I | N-AHNP(I) 215 | 50 | | 50 | | 100 |
| **ETE will be held in next semester and the internal assessment marks and credits will be reflected in Pharmacology (I & II) & Pathology (I & II) (including Genetics) in the next semester (Total weightage remains the same). | | | | | | | |
| ## Cyber Security an online Course UGC mandatory Course | | | | | | | |
| SEMESTER –IV | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Theory | | | | | | | |
| 1 | Pharmacology(I & II) & Pathology (I & II) (including Genetics) | PHAR (I&II) 205 PATH (I&II) 210 | *25 | | 75 | 3 | 100 |
| 2 | Adult Health Nursing II with integrated Pathophysiology including Geriatric Nursing & Palliative care module | N-AHNL(II) 225 | 25 | | 75 | 3 | 100 |

| | | | | | | | |
|---|---|-----------|----|----|--|---|----|
| 3 | Professionalism, Professional Values and Ethics including Bioethics | *PROF 230 | 25 | 25 | | 2 | 50 |
|---|---|-----------|----|----|--|---|----|

Practical and Viva voce

| | | | | | | | |
|---|--|-------------------|----|--|----|--|-----|
| 4 | Adult Health Nursing II with integrated Pathophysiology including Geriatric Nursing & Palliative care module (Practical) | N-AHNP(II) 225 | 50 | | 50 | | 100 |
|---|--|-------------------|----|--|----|--|-----|

* PROF 230 College Exam, Marks are not added for calculating SGPA, Pass marks: 40%

#Elective Module 1(1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40%

SEMESTER –V

| S.No. | Subject | Course Code | Assessment | | | |
|-------|---------|-------------|------------|---------------------------|------------------------------|-------|
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours |

Theory

| | | | | | | | |
|---|--|-------------------|-----|----|----|---|-----|
| 1 | Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and PLS, modules | **Qu-N-CHNL(I)301 | *25 | | | | |
| 2 | Mental Health Nursing I | **Qu-N-MHNL(I)305 | *25 | | | | |
| 3 | Community Health Nursing I including Environmental Science & Epidemiology | N-COMHL(I)310 | 25 | | 75 | 3 | 100 |
| 4 | Educational Technology/Nursing Education | EDUC 315 | 25 | | 75 | 3 | 100 |
| 5 | Introduction to Forensic Nursing | *N-FORN 320 | 25 | 25 | | 2 | 50 |

Practical and Viva voce

| | | | | | | | |
|---|--|-------------------|-----|--|----|--|-----|
| 6 | Child Health Nursing I (Practical) | **Qu-N-CHNP(I)301 | *25 | | | | |
| 7 | Mental Health Nursing I (Practical) | **Qu-N-MHNP(I)305 | *25 | | | | |
| 8 | Community Health Nursing I (Practical) | N-COMHP(I)310 | 50 | | 50 | | 100 |

**ETE will be held in next semester and the internal assessment marks and credits will be reflected in Child Health Nursing (I & II) (theory & practical) and Mental Health Nursing (I&II) (theory & practical) in the next semester (Total weightage remains the same).

| * N-FORN 320 College Exam, Marks are not added for calculating SGPA, Pass marks: 40% | | | | | | | |
|--|---|------------------------------|------------|------------------------------|---------------------------------|-------|-------|
| SEMESTER –VI | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Theory | | | | | | | |
| 1 | Child Health Nursing (I & II) | N-CHNL(I & II)301 | **25 | | 75 | 3 | 100 |
| 2 | Mental Health Nursing (I&II) | N-MHNL (I&II) 305 | **25 | | 75 | 3 | 100 |
| 3 | Nursing Management & Leadership | NMLEL 330 | 25 | | 75 | 3 | 100 |
| 4 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module | **Qu-N-MIDWL(I)/OBG N 335 | *25 | | | | |
| Practical and Viva voce | | | | | | | |
| 5 | Child Health Nursing (I & II) (Practical) | N-CHNP(I & II)301 | **50 | | 50 | | 100 |
| 6 | Mental Health Nursing (I&II) (Practical) | N-MHNP(I&II) 305 | **50 | | 50 | | 100 |
| 7 | Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module (Practical) | **Qu-N-MIDWP(I)/O BGN 335 | *25 | | | | |
| ** ETE will be held in next semester and the internal assessment marks and credits will be reflected in Midwifery/Obstetrics & Gynaecology (OBG) Nursing I &II (theory & practical) in the next semester (Total weightage remains the same). | | | | | | | |
| #Elective Module 2 (1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40% | | | | | | | |
| SEMESTER –VII | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Theory | | | | | | | |
| 1 | Community Health Nursing II | N-COMHL(II) 401 | 25 | | 75 | 3 | 100 |
| 2 | Nursing Research & Statistics | NRST 405 | 25 | | 75 | 3 | 100 |
| 3 | Midwifery/Obstetrics & Gynaecology (OBG) Nursing I &II | N-MIDWL/OBGN I & II 335& 410 | *25 | | 75 | 3 | 100 |

| Practical and Viva voce | | | | | | | |
|--|--|--|------------|---------------------------|------------------------------|-------|-------|
| 4 | Community Health Nursing II (Practical) | N-COMHP(II) 401 | 50 | | 50 | | 100 |
| 5 | Midwifery/Obstetrics & Gynaecology (OBG) Nursing I &II (Practical) | -MIDWP/OBGN I & II 335& 410 | *50 | | 50 | | 100 |
| SEMESTER –VIII | | | | | | | |
| S.No. | Subject | Course Code | Assessment | | | | |
| | | | Internal | End Semester College Exam | End Semester University Exam | Hours | Total |
| Practical and Viva voce | | | | | | | |
| 1 | Competency Assessment | INTE 415, INTE 420, INTE 425, INTE 430, INTE 435 | 100 | | 100 | | 200 |
| #Elective Module 3 (1 credit): College Exam, Marks are not added for calculating SGPA, Pass marks: 40% | | | | | | | |

EXAMINATION REGULATIONS

Note:

1. Applied Anatomy and Applied Physiology: Question paper will consist of Section-A Applied Anatomy of 37 marks and Section-B Applied Physiology of 38 marks.
2. Applied Sociology and Applied Psychology: Question paper will consist of Section-A Applied Sociology of 37 marks and Section-B Applied Psychology of 38 marks.
3. Applied Microbiology and Infection Control including Safety: Question paper will consist of Section-A Applied Microbiology of 37 marks and Section-B Infection Control including Safety of 38 marks.
4. Applied Nutrition and Dietetics and Applied Biochemistry: Question paper will consist of Section-A Applied Nutrition and Dietetics of 50 marks and Section-B Biochemistry of 25 marks.

5. Pharmacology, Genetics and Pathology: Question paper will consist of Section-A of Pharmacology with 38 marks, Section-B of Pathology with 25 marks and Genetics with 12 marks.
6. Nursing Research and Statistics: Nursing Research should be of 55 marks and Statistics of 20 marks.
7. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each course/subject for appearing for examination.
8. A candidate must have 100% attendance in each of the practical areas before award of degree.
9. Following exams shall be conducted as College exam and minimum pass is 50% (C Grade) and will be sent to the University for inclusion in the marks sheet and shall be considered for calculating aggregate.
 - i. Communicative English
 - ii. Health/Nursing Informatics and Technology
 - iii. Professionalism, Professional Values and Ethics including Bioethics
 - iv. Introduction to Forensic Nursing & Indian Laws
10. Minimum pass marks shall be 40% (P grade/4 point) for English only and elective modules.
11. Minimum pass marks shall be 50% in each of the Theory and practical papers separately except in English.
12. The student has to pass in all mandatory modules placed within courses and the pass mark for each module is 50% (C Grade). The allotted percentage of marks will be included in the internal assessment of College/University Examination (Refer Appendix 2).
13. A candidate has to pass in theory and practical exam separately in each of the paper.
14. If a candidate fails in either theory or practical, he/she has to re-appear for both the papers (Theory and Practical).
15. If the student has failed in only one subject and has passed in all the other subjects of a particular semester and Grace marks of up to 5 marks to theory marks can be added for one

course/subject only, provided that by such an addition the student passes the semester examination.

16. The candidate shall appear for exams in each semester:

- i. The candidate shall have cleared all the previous examinations before appearing for fifth semester examination. However, the candidates shall be permitted to attend the consecutive semesters.
- ii. The candidate shall have cleared all the previous examinations before appearing for seventh semester examination. However, the candidates shall be permitted to attend the consecutive semesters.
- iii. The candidate shall have cleared all the previous examination before appearing for final year examination.
- iv. The maximum period to complete the course successfully should not exceed 8 years.

17. The candidate has to pass separately in internal and external examination (shall be reflected in the marks sheet). The average internal marks of the students should not more be than 75% (i.e. if 40 students are admitted in a course the average score of the 40 students shall not exceed 75% of total internal marks).

18. Maximum number of candidates for practical examination should not exceed 20 per day. Particular year and of same institution batch shall be examined by the same set of examiners.

7. RULES FOR ATTENDANCE

As per Indian Nursing Council (INC), a candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject/course for appearing for examination. A candidate must have 100% attendance in each of the practical areas before award of degree.

8. GRADING SYSTEM

Based on the performance, each student shall be awarded a final grade at the end of the semester for each course.

Absolute grading is used by converting the marks to grade, based on predetermined class intervals. UGC 10-point grading system is used with pass grade modified. Cumulative Grade

Point Average (CGPA) calculated on a 10-point scale is used to describe the overall performance of a student. The Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated as.

| Letter grade | Grade point | Percentage of marks |
|-------------------|-------------|---------------------|
| O (Outstanding) | 10 | 100% |
| A+ (Excellent) | 9 | 90-99.99% |
| A (Very Good) | 8 | 80-89.99% |
| B+ (Good) | 7 | 70-79.99% |
| B (Above Average) | 6 | 60-69.99% |
| C (Average) | 5 | 50-59.99% |
| P (Pass) | 4 | 40-49.99% |
| F (Fail) | 0 | |

For Nursing Courses and all other courses – Pass is at C Grade (5 grade point) 50% and above

For English and electives – Pass is at P Grade (4 grade point) 40% and above

Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

SPGA is the weighted average of the grade points obtained in all courses by the student during the semester (All courses excluding English and electives)

Ex. SGPA Computation

| Course Number | Credit/s | Letter grade | Grade point | Credit point (Credit × grade) |
|---------------|----------|--------------|-------------|-------------------------------|
| 1 | 3 (C1) | A | 8 (G1) | 3 × 8 = 24 |
| 2 | 4 (C2) | B+ | 7 (G2) | 4 × 7 = 28 |
| 3 | 3 (C3) | B | 6 (G3) | 3 × 6 = 18 |

$$SGPA = \frac{C1G1 + C2G2 + C3G3}{C1 + C2 + C3} = \frac{70}{10} = 7 \text{ (rounded off to two decimal points)}$$

Computation of CGPA

CGPA is calculated with SGPA of all semesters to two decimal points and is indicated in final grade in mark card/transcript showing grades of all 8 semesters and their courses/subjects.

CGPA reflects the failed status in case of fail till the course/s are passed.

| Semester I | Semester 2 | Semester 3 | Semester 4 |
|-----------------------|------------|------------|------------|
| Credit – Cr Cr: 20 | Cr: 22 | Cr: 25 | Cr: 26 |
| SGPA: 6.5 | SGPA: 7.0 | SGPA: 5.5 | SGPA: 6.0 |
| Cr × SGPA = 20 × 6.5 | | | |

$$CGPA = \frac{20 \times 6.5 + 22 \times 7 + 25 \times 5.5 + 26 \times 6}{93} = \frac{577.5}{93} = 6.2$$

Transcript Format

Based on the above recommendation on letter grades, grade points, SPGA and CGPA, the transcript shall be issued for each semester with a consolidated transcript indicating the performance in all semesters.

Declaration of Pass

First Class with Distinction – CGPA of 7.5 and above First Class – CGPA of 6.00-7.49

Second Class – CGPA of 5.00-5.99

9. PROMOTION AND REGISTRATION FOR NEXT YEAR

The candidates who fail in more than one/two subjects can be promoted to next semester. A candidate can take any number of attempts but with the condition that maximum time allowed is 8 years. However, the candidate shall have cleared all the previous examinations before appearing for fifth semester examination. The candidate shall have cleared all the previous examinations before appearing for seventh semester examination. However, the candidates shall

be permitted to attend the consecutive semesters. The candidate shall have cleared all the previous examination before appearing for final year examination. The maximum period to complete the course successfully should not exceed 8 years.

A student will not be permitted to register in further year if:

- i. She has dues outstanding to the University, hostel or any recognized authority or body of the University, or
- ii. Her grade sheet in his/her immediately preceding term is withheld, or
- iii. She has been specially debarred or asked to stay away from that term.

Late registration may be granted in case a student fails to register on the stipulated date. Students failing to register on the specified day of registration will be allowed to register only after permission from Dean/Head of School and after paying the stipulated late fee. Any student who has not registered will not be allowed to attend classes.

10. MIGRATION CREDIT TRANSFER POLICY

The following procedure will be followed for credit transfer for students under migration, studied in other universities or nursing colleges in India:

“The credits earned by the student from the other universities or nursing colleges in India shall be transferred as such. The Degree shall only be awarded to candidate subject to the condition that student earned the minimum no. of credit defined by Academic Regulation/APG of the Programme run by the Chitkara University.”

11. ELIGIBILITY FOR AWARD OF DEGREE

1. A candidate must have 100% attendance in each of the practical areas before award of degree.
 2. A candidate Cleared all Courses prescribed for the program
- Candidate should obtain the minimum CGPA 5 in each subject for the award of degree in the UG

12. PROGRAM OVERVIEW

SEMESTER I

| Course Code | Name of Course | Hours | Credits |
|-------------|-----------------------|----------|---------|
| ENGL 101 | Communicative English | 40 hours | 02 |

Course Learning Outcomes:

CLO01: Identify the significance of Communicative English for health care professionals and apply the concepts and principles of English language in professional development to enhance the employability.

CLO02: Converse effectively, appropriately and timely within the given context and the individual or team they are communicating with either face to face or by other means.

CLO03: Read, interpret and comprehend content in text, flow sheet, figures, tables, report, anecdotes etc.

CLO04: Apply LSRW (Listening, Speaking, Reading and Writing) Skill in combination to learn, teach, educate and share information, ideas and results.

CLO05: Enhance the expressions of writing skills

Course Content

Unit I: Communication

- What is communication
- What are communication roles of listeners, speakers, readers and writers as healthcare professionals?

Unit II: Introduction to LSRGW

- L – Listening: Different types of listening
- S – Speaking: Understanding Consonants
- Vowels, Word and Sentence Stress, Intonation
- R – Reading: Medical vocabulary
- G – Grammar: Understanding tenses, linkers
- W – Writing simple sentences and short paragraphs – emphasis on correct grammar.

Unit III: Attentive Listening

- Focusing on listening in different situations – announcements, descriptions, narratives, instructions, discussions, demonstrations,
- Reproducing Verbatim,
- Listening to academic talks/ lectures,
- Listening to presentation.

Unit IV: Speaking – Effective Conversation

- Conversation situations – informal, formal and neutral
- Factors influencing way of speaking – setting, topic, social relationship, attitude and language, Greetings, introductions, requesting, asking for and giving permission, speaking personally and casual conversations
- Asking for information, giving instructions and directions
- Agreeing and disagreeing, giving opinions
- Describing people, places, events and things, narrating, reporting & reaching conclusions, Evaluating and comparing
- Complaints and suggestions
- Telephone conversations
- Delivering presentations.

Unit V: Reading

- Reading strategies, reading notes and messages
- Reading relevant articles and news items
- Vocabulary for everyday activities, abbreviations and medical vocabulary
- Understanding visuals, graphs, figures and notes on instructions,
- Reading reports and interpreting them,
- Using idioms and phrases, spotting errors, vocabulary for presentations,
- Remedial Grammar.

Unit VI: Writing Skills

- Writing patient history
- Note taking
- Summarising
- Anecdotal records
- Letter writing
- Diary/Journal writing
- Report writing
- Paper writing skills
- Abstract writing

Unit VII: LSRW Skills

- Critical thinking strategies for listening and reading
- Oral reports, presentations
- Writing instructions, letters and reports
- Error analysis regarding LSRW

Reference Books

1. Kumar P. S. (2010). *English for Nursing Students*. (1st ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
2. Lohumi S. & Lohumi R. (2019). *Communicative English for Nurses*. (3rd ed.). New Delhi, India: Elsevier.
3. Padmavathi M. (2016). *Facilitating Effective Communication in English for Nurses*. (2nd ed.). Bangalore, India: Emmess.
4. David T. M. (2018). *English for Professional Nursing*. (2nd ed.). Neitherland: Wolter Kluwer.
5. Rao Prasada V.D.N. (2021). *High School English Grammer & Composition Wren & Martin*. (Regular ed.). New Delhi, India: Blackie EIT books.

* *Latest editions of all the suggested books are recommended.*

| Course Code | Name of Course | Hours | Credits |
|----------------------|--------------------------------------|-----------|---------|
| ANAT105 & PHYS110 | Applied Anatomy & Applied Physiology | 120 hours | 06 |

Course Learning Outcomes:

CLO01: Explain the general and microscopic structure of each system of the body.

CLO02: Describe the anatomical structure, organization and functions of various organ systems of human body.

CLO03: Identify relative anatomic positions of the major body organs and relative contribution of each organ system towards maintenance of homeostasis.

CLO04: Develop understanding of normal and abnormal functioning of various organ systems of the body.

CLO05: Apply knowledge of anatomic structures and physiological basis to analyze clinical situations and therapeutic applications to strengthen up employability.

Applied Anatomy: 60 Hours

Course Content

Unit I: Introduction to anatomical terms and organization of the human body

- Introduction to anatomical terms relative to position – anterior, ventral, posterior dorsal, superior, inferior, median, lateral, proximal, distal, superficial, deep, prone, supine, palmar and plantar.
- Anatomical planes (axial/ transverse/ horizontal, sagittal/vertical plane and coronal/frontal/oblique plane).
- Movements (flexion, extension, abduction, adduction, medial rotation, lateral rotation, inversion, eversion, supination, pronation, plantar flexion, dorsal flexion and circumduction)
- Cell structure, Cell division
- Tissue – definition, types, characteristics, classification, location
- Membrane, glands – classification and structure
- Identify major surface and bony landmarks in each body region, Organization of human body.
- Hyaline, fibro cartilage, elastic cartilage
- Features of skeletal, smooth and cardiac muscles.
- Application and implication in nursing.

Unit II: The Respiratory system

- Structure of the organs of respiration
- Muscles of respiration
- Application and implication in nursing.

Unit III: The Digestive system

- Structure of alimentary canal and accessory organs of digestion
- Application and implications in nursing.

Unit IV: The Circulatory and Lymphatic system

- Structure of blood components, blood vessels– Arterial and Venous system
- Position of heart relative to the associated structures
- Chambers of heart, layers of heart
- Heart valves, coronary arteries
- Nerve and blood supply to heart
- Lymphatic tissue
- Veins used for IV injections
- Application and implication in nursing,

Unit V: The Endocrine system

- Structure of Hypothalamus, Pineal Gland, Pituitary gland, Thyroid, Parathyroid, Thymus, Pancreas and Adrenal glands.

Unit VI: The Sensory organs

- Structure of skin, eye, ear, nose and tongue
- Application and implications in nursing.

Unit VII: The Musculoskeletal system

- **The Skeletal system:**
 - Anatomical positions
 - Bones – types, structure, growth and ossification,
 - Axial and appendicular skeleton
 - Joints – classification, major joints and structure
 - Application and implications in nursing.

- **The Muscular system**

- Types and structure of muscles
- Muscle groups – muscles of the head, neck, thorax, abdomen, pelvis, upper limb and lower limbs
- Principal muscles – deltoid, biceps, triceps, respiratory, abdominal, pelvic floor, pelvic floor muscles, gluteal muscles and vastus lateralis,
- Major muscles involved in nursing procedures.

Unit VIII: The Renal system

- Structure of kidney, bladder and urethra
- Application and implication in nursing.

Unit IX: The Reproductive system

- Structure of male reproductive organs
- Structure of female reproductive organs
- Structure of breast.

Unit X: The Nervous system

- Review Structure of neurons
- CNS, ANS and PNS (Central, autonomic and peripheral)
- Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves, functional areas of cerebral cortex
- Ventricular system – formation, circulation, and drainage
- Application and implication in nursing.

Note: Few lab hours can be planned for visits, observation and handling (less than 1 credit lab hours are not specified separately)

Reference Books

1. Gibson John, Modern Anatomy and Physiology for Nurses, Blackwell Scientific publication, 1975.
2. Jackson Sheils, Anatomy and Physiology for Nurses, Prism Books, 994, Bangalore.
3. Anthony & Thibodcon, Anatomy and Physiology, C.V. Mosby Co., 1983, London
4. Winwood R S, & Smith G, Anatomy and Physiology for Nurses, ELBS Publication, 1985.

**** Latest editions of all the suggested books are recommended***

Applied Physiology: 60 Hours

Course Content

Unit I: General Physiology – Basic concepts

- Cell physiology including transportation across cell membrane
- Body fluid compartments, Distribution of total body fluid, intracellular and extracellular compartments, major electrolytes and maintenance of homeostasis.
- Cell cycle
- Tissue – formation, repair
- Membranes and glands – functions
- Application and implication in nursing.

Unit II: Respiratory system

- Functions of respiratory organs
- Physiology of respiration
- Pulmonary circulation – functional features
- Pulmonary ventilation, exchange of gases
- Carriage of oxygen and carbon-dioxide Exchange of gases in tissue
- Regulation of respiration
- Hypoxia, cyanosis, dyspnoea, periodic breathing
- Respiratory changes during exercise
- Application and implication in nursing.

Unit III: Digestive system

- Functions of the organs of digestive tract
- Saliva – composition, regulation of secretion and functions of saliva
- Composition and function of gastric juice, mechanism and regulation of gastric secretion
- Composition of pancreatic juice, function, regulation of pancreatic secretion
- Functions of liver, gall bladder and pancreas
- Composition of bile and function
- Secretion and function of small and large intestine
- Movements of alimentary tract

- Digestion in mouth, stomach, small intestine, large intestine, absorption of food
- Application and implications in nursing.

Unit IV: Circulatory and Lymphatic system

- Functions of heart, conduction system, cardiac cycle, Stroke volume and cardiac output
- Blood pressure and Pulse
- Circulation – principles, factors influencing blood pressure, pulse
- Coronary circulation, Pulmonary and systemic circulation
- Heart rate – regulation of heart rate
- Normal value and variations
- Cardiovascular homeostasis in exercise and posture
- Application and implication in nursing.

Unit V: Blood

- Blood – Functions, Physical characteristics
- Formation of blood cells
- Erythropoiesis – Functions of RBC, RBC life cycle
- WBC – types, functions
- Platelets – Function and production of platelets
- Clotting mechanism of blood, clotting time, bleeding time, PTT
- Hemostasis – role of vasoconstriction, platelet plug formation in hemostasis, coagulation factors, intrinsic and extrinsic pathways of coagulation
- Blood groups and types
- Functions of reticuloendothelial system, immunity
- Application in nursing.

Unit VI: The Endocrine system

- Functions and hormones of Pineal Gland, Pituitary gland, Thyroid, Parathyroid, Thymus, Pancreas and Adrenal glands
- Other hormones
- Alterations in disease
- Application and implication in nursing.

Unit VII: The Sensory Organs

- Functions of skin
- Vision, hearing, taste and smell
- Errors of refraction, aging changes
- Application and implications in nursing.

Unit VIII: Musculoskeletal system

- Bones – Functions, movements of bones of axial and appendicular skeleton, Bone healing
- Joints and joint movements
- Alteration of joint disease
- Properties and Functions of skeletal muscles – mechanism of muscle contraction,
- Structure and properties of cardiac muscles and smooth muscles
- Application and implication in nursing.

Unit IX: Renal system

- Functions of kidney in maintaining homeostasis
- GFR
- Functions of ureters, bladder and urethra
- Micturition
- Regulation of renal function
- Application and implication in nursing.

Unit X: The Reproductive system

- Female reproductive system – Menstrual cycle, function and hormones of ovary, oogenesis, fertilization, implantation, Functions of breast
- Male reproductive system – Spermatogenesis, hormones and its functions, semen,
- Application and implication in providing nursing care.

Unit XI: Nervous system

- Overview of nervous system
- Review of types, structure and functions of neurons

- Nerve impulse
- Review functions of Brain-Medulla, Pons, Cerebrum, Cerebellum
- Sensory and Motor Nervous system
- Peripheral Nervous system
- Autonomic Nervous system
- Limbic system and higher mental Functions- Hippocampus, Thalamus, Hypothalamus,
- Vestibular apparatus
- Functions of cranial nerves
- Autonomic functions
- Physiology of Pain-somatic, visceral and referred
- Reflexes
- CSF formation, composition, circulation of CSF, blood brain barrier and blood CSF barrier
- Application and implication in nursing.

Note: Few lab hours can be planned for visits, observation and handling (less than 1 credit lab hours are not specified separately)

Reference Books

1. Gibson John, Modern Anatomy and Physiology for Nurses, Blackwell Scientific publication, 1975.
2. Jackson Sheils, Anatomy and Physiology for Nurses, Prism Books, 994, Bangalore.
3. Anthony & Thibodcon, Anatomy and Physiology, C.V. Mosby Co., 1983, London
4. Winwood R S, & Smith G, Anatomy and Physiology for Nurses, ELBS Publication, 1985.

*** *Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|------------------------|--|-----------|---------|
| SOCI 115 & PSYC 120 | Applied Sociology & Applied Psychology | 120 hours | 06 |

Course Learning Outcomes:

CLO01: Develop understanding of social structure, culture, family, marriage and social stratification and social problems in India.

CLO02: Develop and apply knowledge of social organization and disorganization in reducing social problem.

CLO03: Integrate the knowledge of clinical sociology in the hospital and community to enhance employability skillset.

CLO04: Describe the concepts of psychology and cognitive processes and apply these concepts in health and nursing.

CLO05: Demonstrate basic understanding of psychological assessment and nurse's role.

CLO06: Apply the knowledge of self-empowerment in workplace, society and personal life to build up employability

Applied Sociology: 60 Hours

Course Content

Unit I: Introduction

- Definition, nature and scope of sociology
- Significance of sociology in nursing.

Unit II: Social structure

- Basic concept of society, community, association and institution
- Individual and society
- Personal disorganization
- Social group – meaning, characteristics, and classification.
- Social processes – definition and forms, Co- operation, competition, conflict, accommodation, assimilation, isolation
- Socialization – characteristics, process, agencies of socialization
- Social change – nature, process, and role of nurse, Structure and characteristics of urban, rural and tribal community
- Major health problems in urban, rural and tribal communities
- Importance of social structure in nursing profession.

Unit III: Culture

- Nature, characteristic and evolution of culture
- Diversity and uniformity of culture
- Difference between culture and civilization
- Culture and socialization
- Trans cultural society
- Culture, Modernization and its impact on health and disease.

Unit IV: Family and Marriage

- Family – characteristics, basic need, types and functions of family
- Marriage – forms of marriage, social custom relating to marriage and importance of marriage, Legislation on Indian marriage and family
- Influence of marriage and family on health and health practices.

Unit V: Social stratification

- Introduction – Characteristics & forms of stratification
- Function of stratification
- Indian caste system – origin and characteristics
- Positive and negative impact of caste in society
- Class system and status
- Social mobility-meaning and types
- Race – concept, criteria of racial classification
- Influence of class, caste and race system on health.

Unit VI: Social organization and disorganization

- Social organization – meaning, elements and types
- Voluntary associations
- Social system – definition, types, role and status as structural element of social system., Interrelationship of institutions
- Social control – meaning, aims and process of social control, Social norms, moral and values, Social disorganization – definition, causes, Control and planning
- Major social problems – poverty, housing, food supplies, illiteracy, prostitution, dowry
- Child labour, child abuse, delinquency, crime, substance abuse, HIV/AIDS, COVID-19
- Vulnerable group – elderly, handicapped, minority and other marginal group
- Fundamental rights of individual, women and children

- Role of nurse in reducing social problem and enhance coping
- Social welfare programs in India.

Unit VII: Clinical sociology

- Introduction to clinical sociology
- Sociological strategies for developing services for the abused
- Use of clinical sociology in crisis intervention.

Reference Books

1. Sachdeva V. & Bhushan D. R, An Introduction to Sociology, Kitab Mahal Ltd., Allahabad.
2. Gupta Dipankar, Social Stratification, Pub. Oxford University Press, 1991, New Delhi.
3. Shankar Rao C.N, Introducing Sociology, Pub. Jai Bharat Prakashana Manglore-575004.
4. Bhimappa K, Sociology, Cambridge Publishing Co. West of Chord Road.Banglore-560044

** Latest editions of all the suggested books are recommended.*

Applied Psychology: 60 Hours

Course Content

Unit I: Introduction

- Meaning of Psychology
- Development of psychology – Scope, branches and methods of psychology
- Relationship with other subjects
- Significance of psychology in nursing
- Applied psychology to solve everyday issues.

Unit II: Biological basis of behaviour –Introduction

- Body mind relationship
- Genetics and behaviour
- Inheritance of behaviour
- Brain and behaviour
- Psychology and sensation – sensory process, – normal and abnormal.

Unit III: Mental health and mental hygiene

- Concept of mental health and mental hygiene
- Characteristic of a mentally healthy person

- Warning signs of poor mental health
- Promotive and preventive mental health strategies and services
- Defence mechanism and its implication
- Frustration and conflict – types of conflicts and measurements to overcome
- Role of nurse in reducing frustration and conflict and enhancing coping
- Dealing with ego.

Unit IV: Developmental psychology

- Physical, psychosocial and cognitive development across life span – Prenatal through early childhood, middle to late childhood through adolescence, early and mid-adulthood, late adulthood, death and dying
- Role of nurse in supporting normal growth and development across the life span,
- Psychological needs of various groups in health and sickness – Infancy, childhood, adolescence, adulthood and older adult
- Introduction to child psychology and role of nurse in meeting the psychological needs of children
- Psychology of vulnerable individuals – challenged, women, sick etc.
- Role of nurse with vulnerable groups.

Unit V: Personality

- Meaning, definition of personality
- Classification of personality
- Measurement and evaluation of personality– Introduction
- Alteration in personality,
- Role of nurse in the identification of individual personality and improvement in altered personality.

Unit VI: Cognitive process

- **Attention** – definition, types, determinants, duration, degree and alteration in attention
- **Perception** – Meaning of Perception, principles, factor affecting perception
- **Intelligence** – Meaning of intelligence – Effect of heredity and environment in intelligence, classification, Introduction to measurement of intelligence tests – Mental deficiencies
- **Learning** – Definition of learning, types of learning, Factors influencing learning – Learning process, Habit formation

- **Memory**-meaning and nature of memory, factors influencing memory, methods to improve memory, forgetting
- **Thinking** – types, level, reasoning and problem solving
- **Aptitude** – concept, types, individual differences and variability
- Psychometric assessment of cognitive processes – Introduction
- Alteration in cognitive processes.

Unit VII: Motivation and emotional processes

- **Motivation** – meaning, concept, types, theories of motivation, motivation cycle, biological and special motives
- **Emotions** – Meaning of emotions, development of emotions, alteration of emotion, emotions in sickness – handling emotions in self and other
- Stress and adaptation – stress, stressor, cycle, effect, adaptation and coping
- **Attitudes** – Meaning of attitudes, nature, factor affecting attitude, attitudinal change, Role of attitude in health and sickness
- Psychometric assessment of emotions and attitude – Introduction
- Role of nurse in caring for emotionally sick client.

Unit VIII: Psychological assessment and tests

- Introduction: Types, development, characteristics, principles, uses, interpretation.
- Role of nurse in psychological assessment.

Unit IX: Application of soft skill

- Concept of soft skill
- Types of soft skill – visual, aural and communication skill
- The way of communication
- Building relationship with client and society.
- Interpersonal Relationships (IPR): Definition, Types, and Purposes, Interpersonal skills, Barriers, Strategies to overcome barriers
- Survival strategies – managing time, coping stress, resilience, work – life balance
- Applying soft skill to workplace and society
- Presentation skills, social etiquette, telephone etiquette, motivational skills, teamwork etc.
- Use of soft skill in nursing.

Unit X: Self-empowerment

- Dimensions of self-empowerment
- Self-empowerment development
- Importance of women's empowerment in society
- Professional etiquette and personal grooming
- Role of nurse in empowering others.

Reference Books

1. Morgan C. T, & King, Introduction to Psychology, Megrow bill international.
2. Andrew Mc Ghee, Psychology on Applied to Nursing, Livingstone Nursing texts, 1973, Churchill Livingstone.
3. Philip E Vernon, The Measurement of Abilities, University of London Press Ltd., 1972.
4. Kuppuswamy, Prabhu P.H, General Psychology, Asia Publishing Home, Bombay, New Delhi.
5. Madeleine A. Leininger, Wontemporary Issues in Mental Health Nursing, Little brown and company, 1973, Boston.
6. Donald Snygy, Individual Behaviour- A New Frame of Reference for Psychology, Harper and Brother Publishers, 1982.

**Latest editions of all the suggested books are recommended.*

| Course Code | Name of Course | Hours | Credits |
|---------------------|---|-------|---------|
| Qu-N-NFL (I) 125 | Nursing Foundation I including First Aid module | 120 | 06 |

Course Learning Outcomes:

CLO01: Develop understanding about the concept of health, illness and health care delivery system

CLO02: Abide by the code of ethics and professional conduct.

CLO03: Describe the principles and methods of effective communication in establishing communication links with patients, families and other health team members to strengthen employability.

CLO04: Demonstrate competency in monitoring vital signs and following proper guidelines for recording, reporting and documentations.

CLO05: Demonstrate understanding about the basic nursing care, first aid, patient education and perform the nursing procedures using universal precautions.

CLO06: Apply the fundamental principles and techniques of infection control and biomedical waste management to hone clinical skills.

Course Content

Unit I: Introduction to health and illness

- Concept of Health – Definitions (WHO), Dimensions
- Maslow’s hierarchy of needs
- Health – Illness continuum
- Factors influencing health
- Causes and risk factors for developing illnesses
- Illness – Types, illness behaviour
- Impact of illness on patient and family.

Unit II: Health Care Delivery Systems

Introduction of Basic Concepts & Meanings

- Levels of Illness Prevention – Primary (Health Promotion), Secondary and Tertiary
- Levels of Care – Primary, Secondary and Tertiary
- Types of health care agencies/ services – Hospitals, clinics, Hospice, rehabilitation centres, extended care facilities

- Hospitals – Types, Organization and Functions
- Health care teams in hospitals – members and their role.

Unit III: History of Nursing and Nursing as a profession

- History of Nursing
- History of Nursing in India
- Contributions of Florence Nightingale
- Nursing – Definition – Nurse, Nursing, Concepts, philosophy, objectives, Characteristics, nature, and Scope of Nursing/ Nursing practice, Functions of nurse, Qualities of a nurse, Categories of nursing personnel
- Nursing as a profession – definition and characteristics/criteria of profession
- Values – Introduction – meaning and importance
- Code of ethics and professional conduct for nurses – Introduction.

Unit IV: Communication and Nurse-Patient Relationship

- Communication – Levels, Elements and Process, Types, Modes, Factors influencing communication
- Methods of effective communication/therapeutic communication techniques
- Barriers to effective communication/non- therapeutic communication techniques
- Professional communication
- Helping Relationships (Nurse Patient Relationship) – Purposes and Phases
- Communicating effectively with patient, families and team members
- Maintaining effective human relations and communication with vulnerable groups (children, women, physically and mentally challenged and elderly)

Unit V: Documentation and Reporting

- Documentation – Purposes of Reports and Records
- Confidentiality
- Types of Client records/Common Record- keeping forms
- Methods/Systems of documentation/Recording
- Guidelines for documentation
- Do's and Don'ts of documentation/Legal guidelines for Documentation/Recording
- Reporting – Change of shift reports, Transfer reports and Incident reports.

Unit VI: Vital signs

- Guidelines for taking vital signs
- **Body temperature**
 - Definition, Physiology, Regulation, Factors affecting body temperature
 - Assessment of body temperature – sites, equipment and technique

- Temperature alterations – Hyperthermia, Heat Cramps, Heat Exhaustion, Heatstroke, Hypothermia
- Fever/Pyrexia – Definition, Causes, Stages, Types.
- ***Nursing Management***
 - Hot and Cold applications.
- ***Pulse***
 - Definition, Physiology and Regulation, Characteristics, Factors affecting pulse,
 - Assessment of pulse – sites, equipment and technique,
 - Alterations in pulse.
- ***Respiration***
 - Definition, Physiology and Regulation, Mechanics of breathing, Characteristics, Factors affecting respiration
 - Assessment of respirations – technique, Arterial Oxygen saturation
 - Alterations in respiration.
- ***Blood pressure***
 - Definition, Physiology and Regulation, Characteristics, Factors affecting BP
 - Assessment of BP – sites, equipment and technique, Common Errors in BP Assessment,
 - Alterations in Blood Pressure, Documenting Vital Signs.

Unit VII: Equipment and Linen

- Types – Disposables and reusable,
 - Linen, rubber goods, glassware, metal, plastics, furniture
- Introduction – Indent, maintenance, Inventory.

Unit VIII: Introduction to Infection Control in Clinical setting Infection

- Nature of infection
- Chain of infection
- Types of infection
- Stages of infection
- Factors increasing susceptibility to infection
- Body defences against infection – Inflammatory response & Immune response
- Health care associated infection (Nosocomial infection).

Introductory concept of Asepsis – Medical & Surgical asepsis

Precautions

- Hand Hygiene, (Hand washing and use of hand Rub)
- Use of Personal Protective Equipment (PPE)
- Standard precautions

Biomedical Waste management

- Types of hospital waste, waste segregation and hazards – Introduction.

Unit IX: Comfort, Rest & Sleep and Pain

- Comfort
 - Factors Influencing Comfort
 - Types of beds including latest beds, purposes & bed making
 - Therapeutic positions
 - Comfort devices
- ***Sleep and Rest***
 - Physiology of sleep
 - Factors affecting sleep
 - Promoting Rest and sleep
 - Sleep Disorders
- ***Pain (Discomfort)***
 - Physiology
 - Common cause of pain
 - Types
 - Assessment – pain scales and narcotic scales
 - Pharmacological and Non- pharmacological pain relieving measures – Use of narcotics, TENS devices, PCA
 - Invasive techniques of pain management
 - Any other newer measures
 - CAM (Complementary & Alternative healing Modalities).

Unit X: Promoting Safety in Health Care Environment

- Physical environment – Temperature, Humidity, Noise, Ventilation, Light, Odour, Pest control
- Reduction of Physical hazards – fire, accidents
- Fall Risk Assessment
- Role of nurse in providing safe and clean environment
- Safety devices

- Restraints – Types, Purposes, Indications, Legal Implications and Consent, Application of Restraints-Skill and Practice guidelines
- Other Safety Devices – Side rails, Grab bars, Ambu alarms, non-skid slippers etc.

Unit XI: Hospital Admission and discharge

- Admission to the hospital Unit and preparation of unit
 - Admission bed
 - Admission procedure
 - Medico-legal issues
 - Roles and Responsibilities of the nurse
- Discharge from the hospital
 - Types – Planned discharge, LAMA and Abscond, Referrals and transfers
 - Discharge Planning
 - Discharge procedure
 - Medico-legal issues
 - Roles and Responsibilities of the nurse
 - Care of the unit after discharge.

Unit XII: Mobility and Immobility

- Elements of Normal Movement
- Alignment & Posture
- Joint Mobility, Balance
- Coordinated Movement
- Principles of body mechanics
- Factors affecting Body Alignment and activity
- Exercise – Types and benefits
- Effects of Immobility
- Maintenance of normal Body Alignment and Activity
- Alteration in Body Alignment and mobility
- Nursing interventions for impaired Body Alignment and Mobility – assessment, types, devices used, method
 - Range of motion exercises
 - Muscle strengthening exercises
 - Maintaining body alignment – positions
 - Moving
 - Lifting
 - Transferring
 - Walking

- Assisting clients with ambulation
- Care of patients with Immobility using Nursing process approach
- Care of patients with casts and splints.

Unit XIII: Patient education

- Patient Teaching – Importance, Purposes, Process
- Integrating nursing process in patient teaching.

Unit XIV: First Aid*

- Definition, Basic Principles, Scope & Rules
- First Aid Management
 - Wounds
 - Haemorrhage & Shock
 - Musculoskeletal Injuries – Fractures, Dislocation, Muscle injuries
 - Transportation of Injured persons
 - Respiratory Emergencies & Basic CPR
 - Unconsciousness
 - Foreign Bodies – Skin, Eye, Ear, Nose, Throat & Stomach
 - Burns & Scalds
 - Poisoning
 - Bites & Stings
 - Frostbite & Effects of Heat
 - Community Emergencies.

Reference Books

1. Dr. Annu Kaushik et al, Fundamentals of Nursing: The Art and Science of Person-Centered Care, 1st Edition, Published by Wolters Kluwer, 2020.
2. Jyoti Kathwal, Textbook of Nursing Foundation for B.Sc Nursing Students, 1st Edition, Published by Vision health sciences Publisher, 2021.
3. I clement textbook of Nursing Foundation as per INC New Syllabus, 3rd Edition, Published by Jaypee Publisher, 2021.
4. Rebecca Nissanka Comprehensive Textbook of Foundation of Nursing, 1st Edition, Published by Jaypee Publication, 2016.
5. Sr. Nancy, Principles and Practices of Nursing, vol. I, II, NR Publishing Home, 1984, Indore.

**** Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|--------------------|---|-------|---------|
| Qu-N-NFP(I) 125 | Nursing Foundation I including first aid module (Practical) | 240 | 04 |

Course Learning Outcomes:

On completion of the clinical practicum, the students will be able to:

CLO01: Maintain effective human relations while communicating with patient, families and team members.

CLO02: Demonstrate skills in monitoring vital signs, implementing standard precautions and meeting the basic comfort needs of the patient.

CLO03: Demonstrate skills in techniques of recording and reporting.

CLO04: Exhibit skills in admission, discharge, and transfer of patient.

CLO05: Perform skills in assessing and performing first aid, caring for patients with restricted mobility.

Clinical Postings

General Medical/ Surgical Wards

Communication and Nurse patient relationship

- Maintaining Communication with patient and family and interpersonal relationship,
- Documentation and Reporting
 - Documenting patient care and procedures
 - Verbal report
 - Written report.

Vital signs

- Monitor/measure and document vital signs in a graphic sheet
 - Temperature (oral, tympanic, auxiliary)
 - Pulse (Apical and peripheral pulses)
 - Respiration
 - Blood pressure
 - Pulse oximetry

- Interpret and report alteration
- Cold Applications – Cold Compress, Ice cap, Tepid Sponging
- Care of equipment – thermometer, BP apparatus, Stethoscope, Pulse oximeter

Infection control in Clinical settings

- Hand hygiene
- Use of PPE

Comfort, Rest & Sleep, Pain and Promoting Safety in Health Care Environment

- Bed making
 - Open
 - Closed
 - Occupied
 - Post-operative
 - Cardiac bed
 - Fracture bed
- Comfort devices-
 - Pillows
 - Over bed table/cardiac table
 - Back rest
 - Bed Cradle.
- Therapeutic Positions
 - Supine
 - Fowlers (low, semi, high)
 - Lateral, Prone
 - Sim's
 - Trendelenburg
- ***Pain***
 - Pain assessment and provision for comfort.

Promoting Safety in Health Care Environment

- Care of Patient's Unit
- Use of Safety devices
 - Side Rails
 - Restraints (Physical)
- Fall risk assessment and Post Fall Assessment.

Hospital Admission and discharge, Mobility and Immobility and Patient education

Hospital Admission and discharge

- Perform & Document
 - Admission
 - Transfer
 - Planned Discharge.

Mobility and Immobility

- Range of Motion Exercises
- Assist patient in-
 - Moving
 - Turning
 - Logrolling
- Changing position of helpless patient
- Transferring (Bed to and from chair/wheelchair/ stretcher)
- Patient education.
- First aid and Emergencies

Bandaging Techniques:

- *Basic Bandages:*
 - Circular
 - Spiral
 - Reverse-Spiral
 - Recurrent
 - Figure of Eight.
- *Special Bandages:*
 - Caplin
 - Eye/Ear Bandage
 - Jaw Bandage
 - Shoulder Spica
 - Thumb spica
 - Triangular Bandage/ Sling (Head & limbs)
 - Binders.

Reference Books

1. Barbara Kosier et al, Fundamentals of Nursing Concepts and Procedure, Addison Welsloy Publishing Co., 2007, Philadelphia.
2. Brown Ammy Francis, Medical Nursing, W.B Saunders and Co., 2006, USA.
3. Esther Mc Clain RN, Scientific Principle of Nursing, Current technical literature Publications, 1969, Bombay.
4. Potter and Perry, Fundamentals of Nursing Concepts-Process and Practice, C.V Mosby and Co., 1985, London.
5. Virginia Henderson et al, Principles and Practice of Nursing, Mc Milan Publishing Co., London.
6. Sr. Nancy, Principles and Practices of Nursing, vol. I, II, NR Publishing Home, 1984, Indore.
7. Elbert et al, Scientific Principles in Nursing, C. V Mosby and Co., 1974, USA.

**** Latest editions of all the suggested books are recommended***

SEMESTER II

| Course Code | Name of Course | Hours | Credits |
|------------------------------------|---|-----------|---------|
| BIOC 135 & NUTR 140 | Applied Biochemistry & Applied Nutrition and Dietetics | 100 hours | 5 |

Course Learning Outcomes:

CLO01: Describe the metabolism of carbohydrates, proteins, lipids, haemoglobin and its clinical significance.

CLO02: Develop knowledge regarding various biochemical tests and their applications in disease conditions

CLO03: Describe the principle, essentials of nutrition & its relationship to health

CLO04: Identify nutritional needs of different age groups and plan a balanced diet for them.

CLO05: Describe the principles and practices of nutrition and dietetics and apply nutrient and dietary modifications in caring patients.

CLO 06: Prepare meals and therapeutic diets using different methods and cookery rules to hone the skills.

APPLIED BIOCHEMISTRY (40 hours)

Course Contents

Unit I- Carbohydrates:

- Digestion, absorption and metabolism of carbohydrates and related disorders
- Regulation of blood glucose
- Diabetes Mellitus – type 1 and type 2, symptoms, complications & management in brief
- Investigations of Diabetes Mellitus
- OGTT – Indications, Procedure,
- Interpretation and types of GTT curve
- Mini GTT, extended GTT, GCT, IV GTT
- HbA1c (Only definition)
- Hypoglycemia – Definition & causes

Unit II- Lipids:

- Fatty acids – Definition, classification

- Definition & Clinical significance of MUFA & PUFA, Essential fatty acids, Trans fatty acids
- Digestion, absorption & metabolism of lipids & related disorders
- Compounds formed from cholesterol
- Ketone bodies (name, types & significance only)
- Lipoproteins – types & functions (metabolism not required)
- Lipid profile
- Atherosclerosis (in brief)

Unit III- Proteins:

- Classification of amino acids based on nutrition, metabolic rate with examples
- Digestion, absorption & metabolism of protein & related disorders
- Biologically important compounds synthesized from various amino acids (only names)
- In born errors of amino acid metabolism-only aromatic amino acids (in brief)
- Plasma protein – types, function & normal values
- Causes of proteinuria, hypoproteinemia, hyper-gamma globinemia
- Principle of electrophoresis, normal & abnormal electrophoretic patterns (in brief).

Unit IV- Clinical Enzymology:

- Isoenzymes – Definition & properties
- Enzymes of diagnostic importance in
- Liver Diseases – ALT, AST, ALP, GGT
- Myocardial infarction – CK, cardiac troponins, AST, LDH
- Muscle diseases – CK, Aldolase
- Bone diseases – ALP
- Prostate cancer – PSA, ACP

Unit V- Acid base maintenance:

- pH – definition, normal value
- Regulation of blood pH – blood buffer, respiratory & renal
- ABG – normal values
- Acid base disorders – types, definition & causes

Unit VI- Heme catabolism:

- Heme degradation pathway
- Jaundice – type, causes, urine & blood investigations (van den berg test)

Unit VII- Organ function tests (biochemical parameters & normal values only):

- Renal
- Liver
- Thyroi

Unit VIII- Immunochemistry:

- Structure & functions of immunoglobulin
- Investigations & interpretation – ELISA

Note: Few lab hours can be planned for observation and visits (Less than 1 credit, lab hours are not specified separately).

Reference Books

1. Eastham Duncan Robert, Biochemical Values in Clinical Medicine, John Cought and Sons Ltd.
2. Chandlish, J. K, Lecture Notes on Biochemistry, Blackwell Scientific Publications.
3. Klein S. Israel and Ordan James, Human Biochemistry, Mosby Co., 1958.
4. Varley Harold, Practical Clinical Biochemistry, CBS Publishers and Distributers, New Delhi.

** Latest editions of all the suggested books are recommended.*

APPLIED NUTRITION AND DIETETICS (60 hours)

Course Contents

Unit I- Introduction to Nutrition:

- Definition of Nutrition & Health
- Malnutrition – Under Nutrition & Over Nutrition
- Maintaining health
- Factors affecting food and nutrition
- *Nutrients*: Classification- Macro & Micronutrients, Organic & Inorganic
- Energy Yielding & Non-Energy Yielding
- *Food*: Classification – Food groups
- Origin

Unit II- Carbohydrates:

- Composition

-Starches, sugar and cellulose

- Recommended Daily Allowance (RDA)
- Dietary sources
- Functions
 - Energy
- Unit of energy – Kcal
- Basal Metabolic Rate (BMR)
 - Factors affecting BMR

Unit III- Proteins:

- Composition
 - Eight essential amino acids
 - Functions
 - Dietary sources
- Protein requirements – RDA

Unit IV- Fats:

- Classification – Saturated & unsaturated
- Calorie value
- Functions
- Dietary sources of fats and fatty acids
- Fat requirements – RDA

Unit V- Vitamins:

- Classification – fat soluble & water soluble
- Fat soluble – Vitamins A, D, E, and K
- Water soluble – Thiamine (vitamin B1), Riboflavin (vitamin B2), Nicotinic acid, Pyridoxine (vitamin B6), Pantothenic acid, Folic acid, Vitamin B12, Ascorbic acid (vitamin C)
- Functions, Dietary Sources & Requirements – RDA of every vitamin

Unit VI- Minerals:

- Classification – Major minerals (Calcium, phosphorus, sodium, potassium and magnesium) and Trace elements
- Functions
- Dietary Sources
- Requirements – RDA

Unit VII

- Balanced diet: Definition, principles, steps
- Food guides – Basic Four Food Groups
- RDA – Definition, limitations, uses
- Food Exchange System
- Calculation of nutritive value of foods

- Dietary fibre
- Nutrition across life cycle · Meal planning/Menu planning – Definition, principles, steps
- Infant and Young Child Feeding (IYCF) guidelines – breast feeding, infant foods
- Diet plan for different age groups –Children, adolescents and elderly
- Diet in pregnancy – nutritional requirements and balanced diet plan
- Anemia in pregnancy – diagnosis, diet for anemic pregnant women, iron & folic acid supplementation and counseling
- Nutrition in lactation – nutritional requirements, diet for lactating mothers, complementary feeding/ weaning

Unit VIII- Nutritional deficiency disorders:

- Protein energy malnutrition – magnitude of the problem, causes, classification, signs & symptoms, Severe acute malnutrition (SAM), management & prevention and nurses' role
- Childhood obesity – signs & symptoms, assessment, management & prevention and nurses' role
- Vitamin deficiency disorders – vitamin A, B, C & D deficiency disorders –causes, signs & symptoms, management & prevention and nurses' role
- Mineral deficiency diseases – iron, iodine and calcium deficiencies –causes, signs & symptoms, management & prevention and nurses' role

Unit IX- Therapeutic diet:

- Definition, Objectives, Principles
- Modifications – Consistency, Nutrients
- Feeding techniques.
- Diet in Diseases – Obesity, Diabetes Mellitus, CVD, Underweight, Renal diseases, Hepatic disorders Constipation, Diarrhea, Pre and Post-operative period

Unit X- Cookery rules and preservation of nutrients:

- Cooking – Methods, Advantages and Disadvantages
- Preservation of nutrients
- Measures to prevent loss of nutrients during preparation
- Safe food handling and Storage of foods
- Food preservation
- Food additives and food adulteration
- Prevention of Food Adulteration Act (PFA)
- Food standards

Unit XI- Nutrition assessment and nutrition education:

- Objectives of nutritional assessment

- Methods of assessment – clinical examination, anthropometry, laboratory & biochemical assessment, assessment of dietary intake including Food frequency questionnaire (FFQ) method
- Nutrition education – purposes, principles and methods

Unit XII- National Nutritional Programs and role of nurse:

- Nutritional problems in India
- National nutritional policy
- *National nutritional programs* – Vitamin A Supplementation, Anemia Mukht Bharat Program, Integrated Child Development Services (ICDS), Mid-day Meal Scheme (MDMS), National Iodine Deficiency Disorders Control Program (NIDDCP), Weekly Iron Folic Acid Supplementation (WIFS) and others as introduced
- Role of nurse in every program

Unit XIII- Food safety:

- Definition, Food safety considerations & measures
- Food safety regulatory measures in India– Relevant Acts
- Five keys to safer food
- Food storage, food handling and cooking
- General principles of food storage of food items (ex. milk, meat)
- Role of food handlers in food borne diseases
- Essential steps in safe cooking practices

Reference Books

1. Anderson, Nutrition in Nursing, Lippincott Co., Philadelphia.
2. Antia, E. P., Clinical Dietetics and Nutrition, Oxford University Press, New Delhi.
3. Corrine H. Robinson, Normal and Therapeutic Nutrition, Oxford and IBH Publications.
4. Sue Rodwell Williams, Nutrition and Diet Therapy, C.V Mosby C. Patwardhan V. N, Nutrition in India, 1961.
5. Hervietta Flick, Introduction to Nutrition, Mac Million Publishing Co.
6. Lenna F Copper, Nutrition in Heath and Disease, J.B Lippincott Co., Philadelphia.
7. Joshi v.d., Hand Book of Nutrition and Dietetics, Vora Medical Publications, Bombay.
8. Swaminathan M., Hand Book of Food and Nutrition, Bangalore printing and publishing Co., 1970, Bangalore.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|---------------|---|-------|---------|
| N-NFL(II) 125 | Nursing Foundation II Incl Health Assessment module | 120 | 6 |

Course Learning Outcomes: On completion of the course, the students will be able to

CLO01: Demonstrate fundamental skills of assessment, planning, implementation and evaluation of nursing care using nursing process approach in supervised clinical settings.

CLO02: Assess the Nutritional needs, identify and meet the hygienic needs, elimination needs and provide relevant care under supervision.

CLO03: Apply the knowledge of the principles, routes and effects of administration of medications and calculate conversions of drugs and dosages.

CLO04: Demonstrate knowledge and understanding in caring for patients with altered functioning of sense organs and unconsciousness and identify stressors and stress adaptation modes.

CLO05: Explain the concepts relevant to models of health and illness with integration of the knowledge of culture and cultural differences in meeting the spiritual needs to build employability skillset.

Course Content

Unit I- Health Assessment:

- Interview techniques
- Observation techniques
- Purposes of health assessment
- Process of Health assessment
- Health history
- Physical examination:
 - Methods: Inspection, Palpation, Percussion, Auscultation, Olfaction, Preparation for examination: patient and unit, General assessment, Assessment of each body system
- Documenting health assessment findings

Unit II- The Nursing Process

- Critical Thinking Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
- Nursing Process Overview

Assessment

- Collection of Data: Types, Sources, Methods
- Organizing Data
- Validating Data

- Documenting Data

Nursing Diagnosis

- Identification of client problems, risks and strengths
- Nursing diagnosis statement – parts, Types, Formulating, Guidelines for formulating Nursing Diagnosis
- NANDA approved diagnosis
- Difference between medical and nursing diagnosis

Planning

- Types of planning
- Establishing Priorities: Establishing Goals and Expected Outcomes – Purposes, types, guidelines, Components of goals and outcome statements
- Types of Nursing Interventions, Selecting interventions: Protocols and Standing Orders
- Introduction to Nursing Intervention Classification and Nursing Outcome Classification
- Guidelines for writing care plan

Implementation

- Process of Implementing the plan of care
- Types of care – Direct and Indirect

Evaluation

- Evaluation Process, Documentation and Reporting

Unit III- Nutritional needs:

- Importance
- Factors affecting nutritional needs
- Assessment of nutritional status
- Review: special diets – Solid, Liquid, Soft
- Review on therapeutic diets
- Care of patient with Dysphagia
- Anorexia, Nausea, Vomiting
- Meeting Nutritional needs: Principles, equipment, procedure, indications
 - Oral
 - Enteral: Nasogastric/ Orogastic
 - Introduction to other enteral feeds – types, indications,
- Gastrostomy, Jejunostomy
 - Parenteral – TPN (Total Parenteral Nutrition)

Unit IV- Hygiene:

- Factors Influencing Hygienic Practice

- Hygienic care: Indications and purposes, effects of neglected care
 - Care of the Skin – (Bath, feet and nail, Hair Care)
 - Care of pressure points
 - Assessment of Pressure Ulcers using Braden Scale and Norton Scale
 - Pressure ulcers – causes, stages and manifestations, care and prevention
 - Perineal care/Meatal care
- Oral care, Care of Eyes, Ears and Nose including assistive devices (eye glasses, contact lens, dentures, hearing aid)

Unit V- Elimination needs:

- Urinary Elimination
- Review of Physiology of Urine Elimination, Composition and characteristics of urine
- Factors Influencing Urination
- Alteration in Urinary Elimination
- Facilitating urine elimination: assessment, types, equipment, procedures and special considerations
- Providing urinal/bed pan
- Care of patients with
 - Condom drainage
 - Intermittent Catheterization
 - Indwelling Urinary catheter and urinary drainage
 - Urinary diversions
 - Bladder irrigation
- Bowel Elimination
- Review of Physiology of Bowel Elimination, Composition and characteristics of feces
- Factors affecting Bowel elimination
- Alteration in Bowel Elimination
- Facilitating bowel elimination: Assessment, equipment, procedures
 - Enemas
 - Suppository
 - Bowel wash
 - Digital Evacuation of impacted feces
- Care of patients with Ostomies (Bowel Diversion Procedures)

Unit VI- Diagnostic testing:

- Phases of diagnostic testing (pre-test, intra-test & post-test) in Common investigations and clinical implications
 - Complete Blood Count
 - Serum Electrolytes
 - LFT
 - Lipid/Lipoprotein profile
 - Serum Glucose – AC, PC,
 - HbA1c
 - Monitoring Capillary Blood Glucose (Glucometer Random Blood Sugar – GRBS)
 - Stool Routine Examination
 - Urine Testing – Albumin,
 - Acetone, pH, Specific Gravity
 - Urine Culture, Routine, Timed Urine Specimen
 - Sputum culture
- Overview of Radiologic & Endoscopic Procedures

Unit VII- Oxygenation need:

- Review of Cardiovascular and Respiratory Physiology
- Factors affecting respiratory functioning
- Alterations in Respiratory Functioning
 - Conditions affecting
 - Airway
- Movement of air
 - Diffusion
 - Oxygen transport
 - Alterations in oxygenation
 - Nursing interventions to promote oxygenation: assessment, types, equipment used & procedure
 - Maintenance of patent airway
 - Oxygen administration
 - Suctioning – oral, tracheal
- Chest physiotherapy – Percussion, Vibration & Postural drainage
- Care of Chest drainage – principles & purposes
- Pulse Oximetry – Factors affecting measurement of oxygen saturation using pulse oximeter, Interpretation
- Restorative & continuing care

- Hydration
- Humidification
- Coughing techniques
- Breathing exercises
- Incentive spirometry

Unit VIII- Fluid, Electrolyte, and Acid – Base Balances:

- Review of Physiological Regulation of Fluid, Electrolyte and Acid-Base Balances
- Factors Affecting Fluid, Electrolyte and Acid-Base Balances
- Disturbances in fluid volume:
 - Deficit
 - Hypovolemia
 - Dehydration
 - Excess
 - Fluid overload
 - Edema
- Electrolyte imbalances (hypo and hyper)
- Acid-base imbalances
- Metabolic – acidosis & alkalosis
- Respiratory – acidosis & alkalosis
- Intravenous therapy
- Peripheral vein puncture sites
- Types of IV fluids
 - Calculation for making IV fluid plan
- Complications of IV fluid therapy
- Measuring fluid intake and output
- Administering Blood and Blood components
- Restricting fluid intake
- Enhancing Fluid intake

Unit IX- Administration of Medications:

- Introduction – Definition of Medication, Administration of Medication, Drug Nomenclature, Effects of Drugs, Forms of Medications, Purposes, Pharmacodynamics and Pharmacokinetics
- Factors influencing Medication Action
- Medication orders and Prescriptions
- Systems of measurement
- Medication dose calculation
- Principles, 10 rights of Medication Administration

- Errors in Medication administration
- Routes of administration
- Storage and maintenance of drugs and Nurses responsibility
- Terminologies and abbreviations used in prescriptions and medications orders
- Developmental considerations
- Oral, Sublingual and Buccal routes: Equipment, procedure
- Introduction to Parenteral Administration of Drugs – Intramuscular, Intravenous, Subcutaneous, Intradermal: Location of site, Advantages and disadvantages of the specific sites, Indication and contraindications for the different routes and sites.
 - Equipment – Syringes & needles, cannulas, Infusion sets – parts, types, sizes
 - Types of vials and ampoules, Preparing Injectable medicines from vials and ampoules
- Care of equipment: decontamination and disposal of syringes, needles, infusion sets
- Prevention of Needle-Stick Injuries
 - Topical Administration: Types, purposes, site, equipment, procedure
- Application to skin & mucous membrane
- Direct application of liquids, Gargle and swabbing the throat
- Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/vagina
- Instillations: Ear, Eye, Nasal, Bladder, and Rectal
- Irrigations: Eye, Ear, Bladder, Vaginal and Rectal
- Spraying: Nose and throat
 - Inhalation: Nasal, oral, endotracheal/tracheal (steam, oxygen and medications) – purposes, types, equipment, procedure, recording and reporting of medications administered
 - Other Parenteral Routes: Meaning of epidural, intrathecal, intraosseous, intra-peritoneal, intra-pleural, intra- arterial

Unit X- Sensory needs:

- Introduction
 - Components of sensory experience – Reception, Perception & Reaction
- Arousal Mechanism
- Factors affecting sensory function
- Assessment of Sensory alterations – sensory deficit, deprivation, overload & sensory poverty
- Management
- Promoting meaningful communication (patients with Aphasia, artificial airway & Visual and Hearing impairment)
- Care of Unconscious Patients

- Unconsciousness: Definition, causes & risk factors, pathophysiology, stages of Unconsciousness, Clinical Manifestations
 - Assessment and nursing management of patient with unconsciousness, complications

Unit XI- Care of Terminally ill, death and dying:

- Loss – Types
- Grief, Bereavement & Mourning
- Types of Grief responses
- Manifestations of Grief
- Factors influencing Loss & Grief Responses
- Theories of Grief & Loss – Kubler Ross
- 5 Stages of Dying
- The R Process model (Rando's)
- Death – Definition, Meaning, Types (Brain & Circulatory Deaths)
- Signs of Impending Death
- Dying patient's Bill of Rights
- Care of Dying Patient
- Physiological changes occurring after Death
- Death Declaration, Certification
- Autopsy
- Embalming
- Last office/Death Care
- Counseling & supporting grieving relatives
- Placing body in the Mortuary
- Releasing body from Mortuary
 - Overview – Medico-legal Cases, Advance directives, DNI/DNR, Organ Donation, Euthanasia

PSYCHOSOCIAL NEEDS (A-D)

Unit XII- Self-concept:

- Introduction: Components (Personal Identity, Body Image, Role Performance, Self Esteem)
- Factors affecting Self Concept
- Nursing Management

Unit XIII- Sexuality:

- Sexual development throughout life

- Sexual health
- Sexual orientation
- Factors affecting sexuality
- Prevention of STIs, unwanted pregnancy, avoiding sexual harassment and abuse
 - Dealing with inappropriate sexual behavior

Unit XIV- Stress and Adaptation – Introductory concepts:

- Introduction
- Sources, Effects, Indicators & Types of Stress
- Types of stressors
- Stress Adaptation – General Adaptation Syndrome (GAS), Local Adaptation Syndrome (LAS)
- Manifestation of stress – Physical & psychological
- Coping strategies/ Mechanisms
- Stress Management
 - Assist with coping and adaptation
 - Creating therapeutic environment
- Recreational and diversional therapies

Unit XV- Concepts of Cultural Diversity and Spirituality:

- Cultural diversity
- Cultural Concepts – Culture, Subculture, Multicultural, Diversity,
- Race, Acculturation, Assimilation
- Transcultural Nursing
- Cultural Competence
- Providing Culturally Responsive Care
- Spirituality
- Concepts – Faith, Hope, Religion,
- Spirituality, Spiritual Well Being
- Factors affecting Spirituality
- Spiritual Problems in Acute, Chronic, Terminal illnesses & Near-Death Experience
- Dealing with Spiritual Distress/Problems

Unit XVI- Nursing Theories: Introduction:

- Meaning & Definition, Purposes, Types of theories with examples, Overview of selected nursing theories – Nightingale, Orem, Roy
- Use of theories in nursing practice

Reference Books

1. Jyoti Kathwal, Textbook of Nursing Foundation for B.Sc Nursing Students, 1st Edition, Published by Vision health sciences Publisher, 2021.
2. Christensen B. L. & Kockrow O. E. (2011). *Foundations of Nursing*. New Delhi, India: Mosby Elsevier.
3. Dr. Annu Kaushik et al, Fundamentals of Nursing: The Art and Science of Person-Centered Care, 1st Edition, Published by Wolters Kluwer, 2020.
4. Nancy Sr. (2019). *Principles and Practices of Nursing*. (7th ed.). New Delhi, India: N.R. Publishing House.
5. Nissanka R. (2016). *Comprehensive Textbook of Foundation of Nursing*. (1st ed.). New Delhi, India: Jaypee Brothers Medical Publishers.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|----------------|---|-------|---------|
| N-NFP (II) 125 | Nursing Foundation II Incl Health Assessment module (Practical) | 440 | 07 |

Course Learning Outcomes: On completion of the course, the student will be able to:

CLO01: Perform health assessment and develop skills in assessment, planning, implementation and evaluation of nursing care using Nursing process approach.

CLO02: Implement basic nursing techniques in meeting hygienic needs, elimination needs and nutritional needs of patients.

CLO03: Develop skills in instructing and collecting samples and performing, analyzing and interpreting simple lab tests.

CLO04: Assess, plan, implement & evaluate the basic care needs of patients with altered sensory functioning and Care for terminally ill and dying patients.

CLO05: Demonstrate knowledge and hone skills in caring for patients with altered functioning of sense organs and unconsciousness.

Skill lab

Use of Mannequins and Simulators

- Health Assessment: Standardized Patient
- Nutritional Assessment: Standardized Patient
- Sponge bath, oral hygiene, perineal care: Mannequin
- Nasogastric tube feeding: Trainer/ Simulator
- Providing bed pan & urinal: Mannequin
- Catheter care: Catheterization Trainer
- Bowel wash, enema, insertion of suppository: Simulator/ Mannequin
- Oxygen administration – face mask, venture mask, nasal prongs: Mannequin
- Administration of medication through Parenteral route – IM, SC, ID, IV: IM Injection Trainer, ID injection, IV arm (Trainer)
- Last Office: Mannequin

Clinical Area

General Medical/ Surgical wards:

Health Assessment-

- Nursing/Health history taking
- Perform physical examination:
- General Body systems
- Use various methods of physical examination – Inspection, Palpation, Percussion, Auscultation, Olfaction
 - Identification of system wise deviations
- Documentation of findings

The Nursing Process:

- Prepare Nursing care plan for the patient based on the given case scenario

Nutritional needs, Elimination needs & diagnostic testing

Nutritional needs

- Nutritional Assessment: Preparation of Nasogastric tube feed
- Nasogastric tube feeding

Hygiene

- Care of Skin & Hair:
- Sponge Bath/ Bed bath
- Care of pressure points & back massage
- Pressure sore risk assessment using Braden/Norton scale
- Hair wash
- Pediculosis treatment
- Oral Hygiene
- Perineal Hygiene
- Catheter care

Elimination needs:

- Providing: Urina, Bedpan
- Insertion of Suppository
- Enema
- Urinary Catheter care
- Care of urinary drainage

Diagnostic testing: · Specimen Collection

- Urine routine and culture
- Stool routine
- Sputum Culture
- Perform simple Lab Tests using reagent strips
- Urine – Glucose, Albumin, Acetone, pH, Specific gravity
- Blood – GRBS Monitoring

Oxygenation needs, Fluid, Electrolyte, and Acid – Base Balances:

Oxygenation needs

- Oxygen administration methods
 - Nasal Prongs
 - Face Mask/Venturi Mask
 - Steam inhalation
 - Chest Physiotherapy
 - Deep Breathing & Coughing Exercises
 - Oral Suctioning

Fluid, Electrolyte, and Acid – Base Balances

- Maintaining intake output chart
 - Identify & report complications of IV therapy
- Observe Blood & Blood Component therapy
 - Identify & Report Complications of Blood & Blood Component therapy

Administration of Medications:

Sensory Needs and Care of Unconscious patients

- Assessment of Level of Consciousness using Glasgow Coma Scale

Terminally ill, death and dying

- Death Care

Reference Books

1. Barbara Kosier et al, Fundamentals of Nursing Concepts and Procedure, Addison Welsloy Publishing Co., 2007, Philadelphia.
2. Brown Ammy Francis, Medical Nursing, W.B Saunders and Co., 2006, USA.
3. Esther Mc Clain RN, Scientific Principle of Nursing, Current technical literature Publications, 1969, Bombay.
4. Potter and Perry, Fundamentals of Nursing Concepts-Process and Practice, C.V Mosby and Co., 1985, London.

5. Virginia Henderson et al, Principles and Practice of Nursing, Mc Milan Publishing Co., London.
6. Sr. Nancy, Principles and Practices of Nursing, vol. I, II, NR Publishing Home, 1984, Indore.
7. Elbert et al, Scientific Principles in Nursing, C. V Mosby and Co., 1974, USA.

**** Latest editions of all the suggested books are recommended***

| Course Code | Name of Course | Hours | Credits |
|-------------|---|-------|---------|
| HNIT 145 | Health/Nursing Informatics & Technology | 80 | 03 |

Course Learning Outcomes: On completion of the course, the students will be able to

CLO01. Develop a basic understanding of computer application and apply the knowledge in patient care and nursing education, practice, administration and research.

CLO02: Demonstrate the use of information system, Electronic Health Records (EHR) and Nursing Information System (NIS) system in nursing.

CLO03: Apply the knowledge of information, communication technology and interoperability standards in clinical setting and public health promotion.

CLO04: Utilize evidence-based practices in informatics and technology for providing quality patient care to enhance employability.

CLO05: Demonstrate the skills of using data in management of health care.

Course Content

Unit I- Introduction to computer applications for patient care delivery system and nursing practice:

- Use of computers in teaching, learning, research and nursing practice
- Windows, MS office: Word, Excel, Power Point
- Internet
- Literature search
- Statistical packages
- Hospital management information system

Unit II- Principles of Health Informatics:

- Health informatics – needs, objectives and limitations
- Use of data, information and knowledge for more effective healthcare and better health

Unit III- Information Systems in Healthcare

- Introduction to the role and architecture of information systems in modern healthcare environments
- Clinical Information System (CIS)/Hospital information System (HIS)

Unit IV- Shared Care & Electronic Health Records:

- Challenges of capturing rich patient histories in a computable form
- Latest global developments and standards to enable lifelong electronic health records to be integrated from disparate systems.

Unit V- Patient Safety & Clinical Risk:

- Relationship between patient safety and informatics
- Function and application of the risk management process

Unit VI- Clinical Knowledge & Decision Making:

- Role of knowledge management in improving decision-making in both the clinical and policy contexts.
- Systematized Nomenclature of Medicine, Clinical Terms, SNOMED CT to ICD-10-CM Map, standardized nursing terminologies (NANDA, NOC), Omaha system.

Unit VII- E-Health: Patients and the Internet:

- Use of information and communication technology to improve or enable personal and public healthcare
- Introduction to public health informatics and role of nurses.

Unit VIII- Using Information in Healthcare Management:

- Components of Nursing Information system (NIS)
- Evaluation, analysis and presentation of healthcare data to inform decisions in the management of health-care organizations.

Unit IX- Information Law & Governance in Clinical Practice:

- Ethical-legal issues pertaining to healthcare information in contemporary clinical practice
- Ethical-legal issues related to digital health applied to nursing.

Unit X- Healthcare Quality & Evidence Based Practice:

- Use of scientific evidence in improving the quality of healthcare and technical and professional informatics standards.

Skills

- Utilize computers in improving various aspects of nursing practice.
- Use technology in patient care and professional advancement.
- Use data in professional development and efficient patient care.
- Use information systems in providing quality patient care.
- Use the information system to extract nursing data.
- Develop skill in conducting literature review.

Reference Books

1. Dee Mc Gonigle et'al, Nursing Informatics and the foundation of Knowledge, 5th Edition, Jones & Bartlett Learning, 2021.
2. Sewell, Informatics and Nursing, 6th Edition, Wolters and Kluwer, 2018.
3. Mc Bride et'al, Nursing Informatics for the Advance Practice Nurse, 2nd Edition, Springer, 2015.
4. Virginia K Saba et'al, Essentials of Nursing Informatics, 6th edition, Mc Graw Hill education, 2015.
5. Kathryn J Hannah et'al, Introduction to Nursing Informatics, 4th Edition, Springer, 2014.

**** Latest editions of all the suggested books are recommended.***

SEMESTER III

| Course Code | Name of Course | Hours | Credits |
|-------------|---|-------|---------|
| MICR 201 | Applied Microbiology and infection control including safety | 80 | 03 |

Course A: Applied Microbiology (20 hours)

Course Learning Outcomes:

CLO01: Identify the ubiquity and diversity of microorganisms and explain the morphology and growth of microbes.

CLO02: Identify various types of microorganisms and explore mechanisms by which microorganisms cause disease.

CLO03: Develop understanding of how the human immune system counteracts infection by specific and non-specific mechanisms.

CLO04: Develop understanding of the employee safety, indicator & various safety protocols to become more employable.

CLO05: Develop understanding of the various disinfection and sterilization methods & techniques.

Course Contents

Unit I- Introduction:

- Importance and relevance to nursing, Historical perspective
- Concepts and terminology
- Principles of microbiology.

Unit II- General characteristics of microbes:

- Structure and classification of Microbes
- Morphological types
- Size and form of bacteria
- Motility
- Colonization
- Growth and nutrition of microbes
- Temperature
- Moisture
- Blood and body fluids
- Laboratory methods for Identification of Microorganisms

- Types of Staining – simple, differential (Gram's, AFB), special –capsular staining (negative), spore, LPCB, KOH mount.
- Culture and media preparation – solid and liquid. Types of media – semi synthetic, synthetic, enriched, enrichment, selective and differential media. Pure culture techniques – tube dilution, pour, spread, streak plate. Anaerobic cultivation of bacteria

Unit III- Pathogenic organisms:

- Micro-organisms: Cocci – gram positive and gram negative; Bacilli – gram positive and gram negative
- Viruses
- Fungi: Superficial and Deep mycoses
- Parasites
- Rodents & Vectors
- Characteristics, Source, portal of entry, transmission of infection, Identification of disease producing micro-organisms

Unit IV- Immunity:

- Immunity: Types, classification
- Antigen and antibody reaction
- Hypersensitivity reactions
- Serological tests
- Immunoglobulins: Structure, types & properties
- Vaccines: Types & classification, storage and handling, cold chain, Immunization for various diseases
- Immunization Schedule

Reference Books

1. Ananthanarayan R, et al, Text Book of Microbiology, Orient Longman, 1981.
2. Blackwell C. Caroline, Principles of Infection and Immunity in Patient Care, Edenburg Churchill Livingstone, 1981.
3. Hug L. L, Muffet, Clinical Microbiology, J. B. Lippincott Co., 1981.
4. Loyd Roberts et al, Medical Microbiology, Boston Little Co., 1989.

** Latest editions of all the suggested books are recommended.*

SECTION B: INFECTION CONTROL & SAFETY (20 hours)

Course Contents

Unit I- HAI (Hospital acquired Infection):

- Hospital acquired infection

- Bundle approach
 - Prevention of Urinary Tract Infection (UTI)
 - Prevention of Surgical Site Infection (SSI)
 - Prevention of Ventilator Associated events (VAE)
 - Prevention of Central Line Associated Blood Stream Infection (CLABSI)
- Surveillance of HAI – Infection control team & Infection control committee

Unit II- Isolation Precautions and use of Personal Protective Equipment (PPE):

- Types of isolation system, standard precaution and transmission-based precautions (Direct Contact, Droplet, Indirect)
- Epidemiology & Infection prevention – CDC guidelines

- Effective use of PPE

Unit III- Hand Hygiene:

- Types of Hand hygiene.
- Hand washing and use of alcohol hand rub
- Moments of Hand Hygiene
- WHO hand hygiene promotion

Unit IV-Disinfection and sterilization:

- Definitions
- Types of disinfection and sterilization
- Environment cleaning
- Equipment Cleaning
- Guides on use of disinfectants
- Spaulding's principle

Unit V-Specimen Collection (Review):

- Principle of specimen collection
- Types of specimens
- Collection techniques and special considerations

- Appropriate containers, Transportation of the sample
- Staff precautions in handling specimens.

Unit VI- BMW (Bio Medical Waste Management):

- Laundry management process and infection control and prevention
- Waste management process and infection prevention
- Staff precautions
- Laundry management
- Country ordinance and BMW National guidelines 2017: Segregation of wastes, Colour coded waste containers, waste collection & storage, Packaging & labelling, Transportation.

Unit VII- Antibiotic stewardship:

- Importance of Antibiotic Stewardship
- Anti-Microbial Resistance
- Prevention of MRSA, MDRO in healthcare setting.

Unit VIII- Patient Safety Indicators:

- Care of Vulnerable patients
- Prevention of Iatrogenic injury
- Care of lines
- drains and tubing's
- Restrain policy and care – Physical and Chemical
- Blood & blood transfusion policy
- Prevention of IV Complication
- Prevention of Fall
- Prevention of DVT
- Shifting and transporting of patients
- Surgical safety
- Care coordination event related to medication reconciliation and administration
- Prevention of communication errors
- Prevention of HAI
- Documentation

Incidents and adverse Events

- Capturing of incidents
- RCA (Root Cause Analysis)
- CAPA (Corrective and Preventive Action)
- Report writing.

Unit IX- IPSG (International Patient safety Goals):

- Identify patient correctly
- Improve effective communication
- Improve safety of High Alert medication
- Ensure safe surgery
- Reduce the risk of health care associated infection
- Reduce the risk of patient harm resulting from falls
- Reduce the harm associated with clinical alarm system.

Unit X- Safety protocol:

- 5S (Sort, Set in order, Shine, Standardize, Sustain)
- Radiation safety
- Laser safety
- Fire safety
 - Types and classification of fire
 - Fire alarms
 - Firefighting equipment
- HAZMAT (Hazardous Materials) safety
 - Types of spill
 - Spillage management
 - MSDS (Material Safety Data Sheets)
- Environmental safety
 - Risk assessment
 - Aspect impact analysis
 - Maintenance of Temp and Humidity (Department wise)
 - Audits
- Emergency Codes
- Role of Nurse in times of disaster.

Unit XI- Employee Safety Indicators:

- Vaccination
- Needle stick injuries (NSI) prevention

- fall prevention
- Radiation safety
- Annual health check

Healthcare Worker Immunization Program and management of occupational exposure

- Occupational health ordinance
- Vaccination program for healthcare staff
- Needle stick injuries and prevention and post exposure prophylaxis.

Reference Books

1. Abhay K. Shah et'al, Infection control in Health Care Settings, 1st Edition, Jaypee Brother Medical Publisher, 2016.
2. Jennie Wilson, Infection Control in Clinical Practice, 3rd edition, Elsevier, 2019.
3. N.N. Damani, Manual of Infection Control Procedures, 2nd Edition, 2007.
4. Apurba Sastry et'al, Essential of Hospital Infection Control, Jaypee Brother Medical Publisher, 2019.
5. Sanjay Singhal, Handbook of Hospital Infection Control, CBS Publication, 2013.

*** *Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|---------------------------------|--------------------------------|-------|---------|
| Qu-PHAR (I) 205 PATH (I) 210 | Pharmacology I and Pathology I | 40 | 02 |

Course Learning Outcomes:

CLO01: Describe pharmacodynamics and pharmacokinetics & principles of therapeutics, dose calculation & drug administration.

CLO02: Describe the pharmacology of drugs acting on the GI system, respiratory system, cardiovascular system and endocrine system disorders.

CLO03: Describe the drugs acting on skin, used in treatment of communicable diseases, antiseptics & disinfectants.

CLO04: Apply the knowledge of pathology in understanding the deviations from normal to abnormal pathology and rationalize the various laboratory investigations.

CLO05: Demonstrate the understanding of the methods of collection of blood, body cavity fluids, urine and faeces for various tests.

PHARMACOLOGY – I (20 hours)

Course Contents

Unit I- Introduction to Pharmacology:

- Definitions & Branches
- Nature & Sources of drugs
- Dosage Forms and Routes of drug administration
- Terminology used
- Classification
- Abbreviations
- Prescription
- Drug Calculation

- Weights and Measures
- Pharmacodynamics: Actions, Drug Antagonism, Synergism, Tolerance, Receptors, Therapeutic, adverse, toxic effects, pharmacovigilance
- Pharmacokinetics: Absorption, Bioavailability, Distribution, Metabolism, Interaction, Excretion, Review: Principles of drug administration and treatment individualization
 - Factors affecting dose, route etc.
- Indian Pharmacopoeia: Legal Issues, Drug Laws, Schedule Drugs
- Rational Use of Drugs
- Principles of Therapeutics.

Unit II- Pharmacology of commonly used antiseptics and disinfectants:

- Antiseptics and Disinfectants
- Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit III- Drugs acting on G.I. system:

- Pharmacology of commonly used drugs
 - Emetics and Antiemetics
 - Laxatives and Purgatives
 - Antacids and antipeptic ulcer drugs
 - Anti-diarrhoeals – Fluid and electrolyte therapy, Furazolidone, dicyclomine
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit IV- Drugs acting on respiratory system:

- Pharmacology of commonly used
 - Antiasthmatics – Bronchodilators (Salbutamol inhalers)
 - Decongestants
 - Expectorants, Antitussives and Mucolytics
 - Broncho-constrictors and Antihistamines

- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.

Unit V- Drugs used in treatment of cardiovascular system and blood disorders:

- Haematinics, & treatment of anemia and antiadrenergics
- Cholinergic and anticholinergic
- Adrenergic Drugs for CHF & vasodilators
- Antianginals
- Antiarrhythmics
- Antihypertensives
- Coagulants & Anticoagulants
- Antiplatelets & thrombolytics
- Hypolipidemics
- Plasma expanders & treatment of shock
- Drugs used to treat blood disorders
- Composition action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit VI- Drugs used in treatment of endocrine system disorders:

- Insulin & oral hypoglycemic
- Thyroid and anti-thyroid drugs
- Steroids
 - oCorticosteroids
 - oAnabolic steroids
- Calcitonin, parathormone, vitamin D3, calcium metabolism
 - oCalcium salts

Unit VII- Drugs used in treatment of integumentary system:

- Antihistaminics and antipruritics
- Topical applications for skin- Benzylbenzoate, Gamma BHC, Clotrimazole, Miconazole, Silver Sulphadiazine (burns)

- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.

Unit VIII- Drugs used in treatment of communicable diseases

- General Principles for use of Antimicrobials
- Pharmacology of commonly used drugs:
 - Penicillin, Cephalosporin's, Aminoglycosides, Macrolide & broadspectrum antibiotics, Sulfonamides, quinolones, Misc. antimicrobials
 - Anaerobic infections
 - Antitubercular drugs
 - Antileprosy drugs
 - Antimalarials
 - Antiretroviral drugs
 - Antiviral agents
 - Antihelminthics
 - Antiscabies agents
 - Antifungal agents
- Composition action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects, toxicity and role of nurse.

Reference Books

1. Richard A. Lehne, Pharmacology for Nursing Care, W. B. saunders co., 2006, Australia.
2. Brucen D. Clayton, Basic Pharmacology for Nurses, Jaypee, New Delhi.
3. LindaLane Lilley, Study Guide for Pharmacology and the Nursing Process, Mosby, 2007.

**** Latest editions of all the suggested books are recommended.***

PATHOLOGY – I (20hours)

Course Contents

Unit I- Introduction:

- Importance of the study of pathology
- Definition of terms in pathology
- Cell injury: Etiology, pathogenesis of reversible and irreversible cell injury, Necrosis, Gangrene, Cellular adaptations: Atrophy, Hypertrophy, Hyperplasia, Metaplasia, Dysplasia, Apoptosis, Inflammation:
- Acute inflammation (Vascular and Cellular events, systemic effects of acute inflammation)
- Chronic inflammation (Granulomatous inflammation, systemic effects of chronic inflammation)
- Wound healing
- Neoplasia: Nomenclature, Normal and Cancer cell, Benign and malignant tumors, Carcinoma in situ, Tumor metastasis: general mechanism, routes of spread and examples of each route, Circulatory disturbances: Thrombosis, embolism, shock
- Disturbance of body fluids and electrolytes: Edema, Transudates and Exudates.

Unit II- Special Pathology (Pathological changes in disease conditions of selected systems):

1. Respiratory system

- Pulmonary infections: Pneumonia, Lung abscess, pulmonary tuberculosis
- Chronic Obstructive Pulmonary Disease: Chronic bronchitis, Emphysema, Bronchial Asthma, Bronchiectasis
- Tumors of Lungs

2. Cardio-vascular system

- Atherosclerosis
- Ischemia and Infarction.
- Rheumatic Heart Disease

3. Gastrointestinal tract

- Peptic ulcer disease (Gastric and Duodenalulcer)
- Gastritis-H Pylori infection
- Oral mucosa: Oral Leukoplakia, Squamouscell carcinoma
- Esophageal cancer
- Gastric cancer
- Intestinal: Typhoid ulcer, Inflammatory Bowel Disease (Crohn's disease and Ulcerative colitis), Colorectal cancer

4. Liver, Gall Bladder and Pancreas

- Liver: Hepatitis, Amoebic Liver abscess, Cirrhosis of Liver
- Gall bladder: Cholecystitis.
- Pancreas: Pancreatitis
- Tumors of liver, Gall bladder and Pancreas

5. Skeletal system

- Bone: Bone healing, Osteoporosis, Osteomyelitis, Tumors
- Joints: Arthritis - Rheumatoid arthritis and Osteoarthritis

6. Endocrine system

- Diabetes Mellitus
- Goitre
- Carcinoma thyroid

Unit III- Haematological tests for the diagnosis of blood disorders:

- Blood tests: Hemoglobin, White cell and platelet counts, PCV, ESR
- Coagulation tests: Bleeding time (BT), Prothrombin time (PT), Activated Partial Prothrombin Time (APTT)
- Blood chemistry

- Blood bank:
 - Blood grouping and cross matching
 - Blood components
 - Plasmapheresis
 - Transfusion reactions

Reference Book

1. Mohan Harsh, Text Book of Pathology, Jaypee Brothers, 2008, New Delhi.
2. A.K. Mandal et'al, Comprehensive Textbook of Pathology for Nursing, Avichal Publishing Company, 1st Edition, 2021.
3. Ramdas Nayak et'al, Textbook of Pathology and Genetics for Nurses, Jaypee Brothers Medical Publishers, 2nd edition, 2017.
4. Navneet Kumari, Textbook for Pathology for Nurses, Lotus Publishers, 2018.

** Latest editions of all the suggested books are recommended.*

| Course Code | Name of Course | Hours | Credits |
|---------------|--|-------|---------|
| N-AHNL(I) 215 | Adult Health Nursing I with integrated pathophysiology including BCLS module | 140 | 07 |

Course Learning Outcomes:

CLO01: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection and sharpen clinical skills.

CLO02: Explain the causes, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders to amplify the employability prowess.

CLO03: Identify the drugs used in treating patients with medical surgical conditions and skills in assisting /performing diagnostics & therapeutic procedures.

CLO04: Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.

CLO05: Maintain safe environment for patient & health care personnel, and provide evidence based nursing care

Course Contents

Unit I- Introduction:

- Evolution and trends of medical and surgical nursing
- International classification of diseases
- Roles and responsibility of a nurse in medical and surgical settings
 - Outpatient department
 - In-patient unit
 - Intensive care unit
- Introduction to medical and surgical asepsis
 - Inflammation, infection
 - Wound healing – stages, influencing factors
 - Wound care and dressing technique

- Care of surgical patient
 - pre-operative
 - post-operative
- Alternative therapies used in caring for patients with Medical Surgical Disorders.

Unit II- Intraoperative Care:

- Organization and physical set up of the operation theatre
- Classification
- O.T Design
- Staffing
- Members of the OT team
- Duties and responsibilities of the nurse in OT
- Position and draping for common surgical procedures
- Instruments, sutures and suture materials, equipment for common surgical procedures
- Disinfection and sterilization of equipment
- Preparation of sets for common surgical procedures
- Scrubbing procedures – Gowning, masking and gloving
- Monitoring the patient during the procedures
- Maintenance of the therapeutic environment in OT
- Assisting in major and minor operation, handling specimen
- Prevention of accidents and hazards in OT
- Anaesthesia – types, methods of administration, effects and stages, equipment & drugs
- Legal aspects

Unit III- Nursing care of patients with common signs and symptoms and management:

- Fluid and Electrolyte imbalance
- Shock
- Pain.

Unit IV- Nursing Management of patients with respiratory problems:

- Review of anatomy and physiology of respiratory system

- Nursing Assessment – history taking, physical assessment and diagnostic tests
- Common respiratory problems:
- Upper respiratory tract infections
- Chronic obstructive pulmonary diseases
- Pleural effusion, Empyema
- Bronchiectasis
- Pneumonia
- Lung abscess
- Cyst and tumors
- Chest Injuries
- Acute respiratory distress syndrome
- Pulmonary embolism
- Health behaviours to prevent respiratory illness

Unit V- Nursing Management of patients with disorders of digestive system

- Review of anatomy and physiology of GI system
- Nursing assessment –History and physical assessment
- GI investigations
- Common GI disorders:
- Oral cavity: lips, gums and teeth
- GI: Bleeding, Infections, Inflammation, tumors, Obstruction, Perforation & Peritonitis
- Peptic & duodenal ulcer,
- Mal-absorption, Appendicitis,
- Hernias
- Hemorrhoids, fissures, Fistulas
- Pancreas: inflammation, cysts, and tumors
- Liver: inflammation, cysts, abscess, cirrhosis, portal hypertension, hepatic failure, tumors
- Gall bladder: inflammation, Cholelithiasis, tumors
- Gastric decompression, gavage and stoma care, different feeding techniques

- Alternative therapies, drugs used in treatment of disorders of digestive system

Unit VI-Nursing Management of patients with cardiovascular problems

- Review of anatomy and physiology of cardio-vascular system
- Nursing Assessment: History and Physical assessment
- Invasive & non-invasive cardiac procedures
- Disorders of vascular system- Hypertension, arteriosclerosis, Raynaud's disease, aneurysm and peripheral vascular disorders
- Coronary artery diseases: coronary atherosclerosis, Angina pectoris, myocardial infarction
- Valvular disorders: congenital and acquired
- Rheumatic heart disease: pericarditis, myocarditis, endocarditis, cardiomyopathies
- Cardiac dysrhythmias, heart block
- Congestive heart failure, cor pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade
- Cardiopulmonary arrest

Unit VII- Nursing Management of patients with disorders of blood:

- Review of Anatomy and Physiology of blood
- Nursing assessment: history, physical assessment & Diagnostic tests
- Anemia, Polycythemia
- Bleeding Disorders: clotting factor defects and platelets defects, thalassemia, leukemia, leukopenia
- Agranulocytosis
- Lymphomas, myelomas

Unit VIII- Nursing management of patients with disorders of endocrine system:

- Review of anatomy and physiology of endocrine system
- Nursing Assessment –History and Physical assessment

- Disorders of thyroid and Parathyroid, Adrenal and Pituitary(Hyper, Hypo, tumors)
- Diabetes mellitus

Unit IX- Nursing management of patients with disorders of Integumentary system:

- Review of anatomy and physiology of skin
- Nursing Assessment: History and Physical assessment
- Infection and infestations; Dermatitis
- Dermatoses; infectious and Noninfectious
- Acne, Allergies, Eczema & Pemphigus
- Psoriasis, Malignant melanoma, Alopecia
- Special therapies, alternative therapies
- Drugs used in treatment of disorders of integumentary system

Unit X- Nursing management of patients with musculoskeletal problems:

- Review of Anatomy and physiology of the musculoskeletal system
- Nursing Assessment: History and physical assessment, diagnostic tests
- Musculoskeletal trauma: Dislocation, fracture, sprain, strain contusion, amputation
- Musculoskeletal infections and tumors: Osteomyelitis, benign and malignant tumour
- Orthopedic modalities: Cast, splint, traction, crutch walking
- Musculoskeletal inflammation: Bursitis, synovitis, arthritis
- Special therapies, alternative therapies
- Metabolic bone disorder: Osteoporosis, osteomalacia and Paget's disease
- Spinal column defects and deformities – tumor, prolapsed intervertebral disc, Pott's spine
- Rehabilitation, prosthesis
- Replacement surgeries

Unit XI- Nursing management of patients with Communicable diseases:

- Overview of infectious diseases, the infectious process
- Nursing Assessment: History and Physical assessment, Diagnostic tests
- Tuberculosis
- Diarrhoeal diseases, hepatitis A-E, Typhoid
- Herpes, chickenpox, Smallpox, Measles, Mumps, Influenza
- Meningitis
- Gas gangrene
- Leprosy
- Dengue, Plague, Malaria, Chikungunya, swine flu, Filariasis
- Diphtheria, Pertussis, Tetanus, Poliomyelitis
- COVID-19
- Special infection control measures: Notification, Isolation, Quarantine, Immunization

Reference Books

1. Bruno peulenic, Patrick Maxial, *Medical Surgical Nursing- Pathophysiological Concept*, J.B .Linnincott Co. Philadelnhia.
2. Sorensen and Luckmann, *Basic Nursing A Psycho-Physiological Approach*, John Wright publishing Co.
3. Perry, Ann G. and Patricia A. Potter, *Clinical Nursing Skills and Techniques*, The C.V Mosby Co., 1990, St Louis.
4. Mary Powell, *Orthopaedic Nursing*, ELBS, 1976.
5. Sathoskar R. S., *Pharmacology and Pharmacotherapeutics*, Bombay popular Prakashan, Bombay.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|-------------|----------------|-------|---------|
| HUL2401 | Cyber Security | 15 | 0 |

Course Learning Outcomes

CLO 1: Describe need of cyber security

CLO 2: Understand different types of cyber crime

CLO 3: Explain the legal perspective on cyber crime

CLO 4: Utilize technical knowledge and skills needed to protect and defend computer systems and networks

CLO 5: Implement and monitor cyber security mechanism for protecting information technology assets required to enhance employability skills

Course Content

The need for cyberspace, concepts and techniques, protecting data and privacy, threat landscape, improving password security, malware basics, network and communication, standards of network, cryptography, network security, analysing and managing security risk, protecting the organization.

Recommended Books

1. Bhushan M. (2017). *Fundamental of Cyber Security*. (1st ed.). New Delhi, India: BPB Publications.
 2. Menon R. (2018). *Cyber Security and Cyber Laws*. (1st ed.). New Delhi, India: Wiley Publishers.
 3. Godbole N.& Belapure S. (2011). *Cyber Security*. (1st ed.). New Delhi, India: Wiley Publication.
 4. Shinde A. *Introduction to cyber security*. (1st ed.). New Delhi, India: Notion Publishers.
- Khatana R. *Introduction to cyber security*. (2nd ed.) New Delhi, India: Notion Publishers

| Course Code | Name of Course | Hours | Credits |
|----------------|--|-------|---------|
| N-AHNP (1) 215 | Adult Health Nursing I with integrated pathophysiology including BCLS module (Practical) | 520 | 07 |

Course Learning Outcomes:

CLO01: Perform complete health assessment and develop skills and apply scientific principles in performing nursing procedures.

CLO02: Utilize the nursing process in providing care to sick adults in hospital.

CLO03: Explain nursing actions appropriately to the patients and maintain safe environment.

CLO04: Demonstrate the awareness of legal and ethical issues in nursing practice.

CLO05: Integrate knowledge of pathology, nutrition & pharmacology for the patients experiencing health illnesses to augment employability.

I. NURSING MANAGEMENT OF PATIENTS WITH MEDICAL CONDITIONS

Skill Lab: Use of manikins and simulators:

Clinical Postings:

Intravenous therapy

Oxygen through mask

Oxygen through nasal prongs

Venturi mask

Nebulization

Chest physiotherapy

General Ward:

- Intravenous therapy
- IV cannulation
- IV maintenance and monitoring
- Administration of IV medication

- Care of patient with Central line
- Preparation and assisting and monitoring of patients undergoing diagnostic procedures such as thoracentesis, Abdominal paracentesis
- Management patients with respiratory problems
- Administration of oxygen through mask, nasal prongs, venturi mask
- Pulse oximetry
- Nebulization
- Chest physiotherapy
- Postural drainage
- Oropharyngeal suctioning
- Care of patient with chest drainage
- Diet Planning
- High Protein diet
- Diabetic diet
- Insulin administration
- Monitoring GRBS

II. NURSING MANAGEMENT OF PATIENTS WITH SURGICAL CONDITIONS

Skill Lab: Use of manikins and simulators

- Nasogastric aspiration
- Surgical dressing
- Suture removal
- Colostomy care/ileostomy care
- Enteral feeding

Clinical Postings:

General surgical ward:

- Pre-Operative care
- Immediate Post-operative care
- Post-operative exercise
- Pain assessment
- Pain Management
- Assisting diagnostic procedure and after care of patients undergoing
- Colonoscopy
- ERCP
- Endoscopy
- Liver Biopsy
- Nasogastric aspiration
- Gastrostomy/Jejunostomy feeds
- Ileostomy/Colostomy care
- Surgical dressing
- Suture removal
- Surgical soak
- Sitz bath
- Care of drain

III. NURSING MANAGEMENT OF PATIENTS WITH CARDIAC CONDITIONS

Skill Lab

Use of manikins and simulators

Cardiovascular assessment

Interpreting ECG

BLS/BCLS

CPR

ABG analysis

Taking blood sample

Arterial blood gas analysis – interpretation

Clinical Posting

Cardiology Wards:

- Cardiac monitoring
- Recording and interpreting ECG
- Arterial blood gas analysis –interpretation
- Administer cardiac drugs
- Preparation and after care of patients for cardiac catheterization
- CPR
- Collection of blood sample for:
 - Blood grouping/cross matching
 - Blood sugar
 - Serum electrolytes
 - Assisting with blood transfusion
 - Assisting for bone marrow aspiration
 - Application of anti-embolism stockings (TED hose)
 - Application/maintenance of sequential Compression device

IV. NURSING MANAGEMENT OF PATIENTS WITH DISORDERS OF INTEGUMENTARY SYSTEM

Skill Lab:

Use of manikins and simulators,
Application of topical medication.

Clinical Postings:

Dermatology ward:

- Intradermal injection-Skin allergytesting
- Application of topical medication
- Medicated bath.

V. NURSING MANAGEMENT OF PATIENTS WITH COMMUNICABLE DISEASES

Skill Lab:

Barrier Nursing

Reverse Barrier Nursing

Standard precautions

Clinical Postings:

Isolation Ward:

- Barrier Nursing
- Reverse barrier nursing
- Standard precautions (Universal precaution), use of PPE, needle stick and sharp injury prevention, Cleaning and disinfection, Respiratory hygiene, waste disposal and safe injection practices)

VI. NURSING MANAGEMENT OF PATIENTS WITH MUSCULOSKELETAL PROBLEMS

Skill Lab:

Use of manikins and simulators

Range of motion exercises

Muscle strengthening exercises

Crutch walking.

Clinical Postings:

Orthopaedic Ward:

- Preparation of patient with myelogram/CT/MRI
- Assisting with application &removal of POP/Cast
- Preparation, assisting and aftercare of patient with Skin traction/skeletal traction

- Care of orthotics
- Muscle strengthening exercises
- Crutch walking
- Rehabilitation

VII. NURSING MANAGEMENT OF PATIENTS IN THE OPERATING ROOMS

Skill Lab:

Use of manikins and simulators

Scrubbing, gowning and gloving

Orient to instruments for common surgeries

Orient to suture materials, Positioning.

Clinical Postings:

Operation Theatre:

- Position and draping
- Preparation of operation table
- Set up of trolley with instrument
- Assisting in major and minor operation
- Disinfection and sterilization of equipment
- Scrubbing procedures – Gowning, masking and gloving
- Intra operative monitoring

Reference Books

1. Bruno peulenic, Patrick Maxial, *Medical Surgical Nursing- Pathophysiological Concept*, J.B .Linnincott Co. Philadelnhia.
2. Sorensen and Luckmann, *Basic Nursing A Psycho-Physiological Approach*, John Wright publishing Co.
3. Perry, Ann G. and Patricia A. Potter, *Clinical Nursing Skills and Techniques*, The C.V Mosby Co., 1990, St Louis.
4. Mary Powell, *Orthopaedic Nursing*, ELBS, 1976.
5. Sathoskar R. S., *Pharmacology and Pharmacotherapeutics*, Bombay popular Prakashan, Bombay.

*** Latest editions of all the suggested books are recommended.**

SEMESTER IV

| Course Code | Name of Course | Hours | Credits |
|-------------------------------|---|-------|---------|
| PHAR(II) 205 PATH (II) 210 | Pharmacology (II) & Pathology (II) (including Genetics) | 80 | 04 |

Course Learning Outcomes:

CLO01: Discuss the role and responsibilities of nurses towards safe administration of drugs used to treat disorders of various systems with basic understanding of pharmacology.

CLO02: Explain and elaborate the drugs used to treat disorders of various system of the body.

CLO03: Demonstrate understanding about the principles of prescribing and drugs used in alternative system of medicine.

CLO04: Apply the knowledge of pathology in understanding diseases and demonstrate skills in collection of various samples.

CLO05: Appreciate the various manifestations in patients with diagnosed genetic abnormalities and rationalize the specific diagnostic tests and services related to genetics.

PHARMACOLOGY – II (including Fundamentals of Prescribing Module)

Course Contents

Unit I- Drugs used in disorders of ear, nose, throat & Eye:

- Antihistamines
- Topical applications for eye (Chloramphenicol, Gentamycin eye drops), ear (Soda glycerin, boric spirit ear drops), nose and buccal cavity- chlorhexidine mouthwash
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

Unit II- Drugs used on urinary system:

- Pharmacology of commonly used drugs
- Renin angiotensin system

- Diuretics and antidiuretics
- Drugs toxic to kidney
- Urinary antiseptics
- Treatment of UTI – acidifiers and alkalinizers
- Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects toxicity and role of nurse

Unit III- Drugs acting on nervous system

- Basis & applied pharmacology of commonly used drugs
- Analgesics and anaesthetics
- Analgesics: Non-steroidal anti-inflammatory (NSAID) drugs
- Antipyretics
- Opioids & other central analgesics
- General (techniques of GA, preanesthetic medication) & local anesthetics
- Gases: oxygen, nitrous, oxide, carbon-dioxide & others
- Hypnotics and sedatives
- Skeletal muscle relaxants
- Antipsychotics
- Mood stabilizers
- Antidepressants
- Antianxiety Drugs
- Anticonvulsants
- Drugs for neurodegenerative disorders & miscellaneous drugs
- Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse

Unit IV- Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy:

- Antidepressants
- Anti-anxiety Drugs
- Anticonvulsants
- Drugs for neurodegenerative disorders & miscellaneous drugs
- Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse

Unit V- Drugs used for pregnant women during antenatal, labour and postnatal period:

- Tetanus prophylaxis
- Iron and Vit K1 supplementation
- Oxytocin, Misoprostol
- Ergometrine
- Methyl prostaglandin F₂-alpha
- Magnesium sulphate
- Calcium gluconate

Unit VI- Miscellaneous:

- Drugs used for deaddiction
- Drugs used in CPR and emergency- adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone
- IV fluids & electrolytes replacement
- Common poisons, drugs used for treatment of poisoning

- Activated charcoal
- Ipecac
- Antidotes,
- Anti-snake venom (ASV)
- Vitamins and minerals supplementation
- Vaccines & sera (Universal immunization program schedules)
- Anticancer drugs: Chemotherapeutic drugs commonly used
- Immuno-suppressants and Immunostimulants

Unit VII-Introduction to drugs used in alternative systems of medicine:

- Ayurveda, Homeopathy, Unani and Siddha etc
- Drugs used for common ailments.

Unit VIII- Fundamental principles of prescribing:

- Prescriptive role of nurse practitioners: Introduction
- Legal and ethical issues related to prescribing
- Principles of prescribing, Steps of prescribing
- Prescribing competencies.

Reference Books

1. Bruno Peulenic, Patrick Maxial, Medical Surgical Nursing- Pathophysiological Concept, J.B .Linnincott Co. Philadelnhia.
2. Sorensen & Luckmann, Basic Nursing A Psycho-Physiological Approach, John Wright publishing Co.
3. Perry, Ann G. and Patricia A. Potter, Clinical Nursing Skills and Techniques, The C.V Mosby Co., 1990, St Louis.
4. Mary Powell, Orthopaedic Nursing, ELBS, 1976.
5. Sathoskar R. S., Pharmacology and Pharmacotherapeutics, Bombay Popular Prakashan,
2. Bombay.Shackelton, Alberta, Dent et al., Practical Nurse Nutrition Education, W. B Saunders Co., Philadelphia.

*** Latest editions of all the suggested books are recommended.**

PATHOLOGY - II AND GENETICS

Course Contents

Unit I- Special Pathology:

1. Pathological changes in disease conditions of selected systems:

Kidneys and Urinary tract

- Glomerulonephritis
- Pyelonephritis
- Renal calculi
- Cystitis
- Renal Cell Carcinoma
- Renal Failure (Acute and Chronic)

Male genital systems

- Cryptorchidism
- Testicular atrophy
- Prostatic hyperplasia
- Carcinoma penis and Prostate.

Female genital system

- Carcinoma cervix
- Carcinoma of endometrium
- Uterine fibroids
- Vesicular mole andChoriocarcinoma
- Ovarian cyst and tumors

Breast

- Fibrocystic changes
- Fibroadenoma
- Carcinoma of the Breast

Central nervous system

- Meningitis.
- Encephalitis
- Stroke
- Tumors of CNS.

Unit II- Clinical Pathology:

- Examination of body cavity fluids:
- Methods of collection and examination of CSF and other body cavity fluids (sputum, wound discharge) specimen for various clinical pathology, biochemistry and microbiology tests
- Analysis of semen:
- Sperm count, motility and morphology and their importance in infertility
- Urine
- Physical characteristics, Analysis, Culture and Sensitivity
- Feaces: Characteristics
- Stool examination: Occult blood, Ova, Parasite and Cyst, Reducing substance etc.
- Methods and collection of urine and feaces for various tests

GENETICS

Course Contents

Unit I- Introduction:

- Practical application of genetics in nursing
- Impact of genetic condition on families
- Review of cellular division: mitosis and meiosis
- Characteristics and structure of genes
- Chromosomes: sex determination
- Chromosomal aberrations
- Patterns of inheritance
- Mendelian theory of inheritance
- Multiple alleles and blood groups
- Sex linked inheritance
- Mechanism of inheritance
- Errors in transmission (mutation)

Unit II- Maternal, prenatal and genetic influences on development of defects and diseases:

- Conditions affecting the mother: genetic and infections
- Consanguinity atopy
- Prenatal nutrition and food allergies
- Maternal age
- Maternal drug therapy
- Prenatal testing and diagnosis
- Effect of Radiation, drugs and chemicals
- Infertility

- Spontaneous abortion
- Neural Tube Defects and the role of folic acid in lowering the risks
- Down syndrome (Trisomy 21)

Unit III- Genetic testing in the neonates and children:

- Screening for- Congenital abnormalities
- Developmental delay, Dysmorphism.

Unit IV- Genetic conditions of adolescents and adults:

- Cancer genetics: Familial cancer
- Inborn errors of metabolism
- Blood group alleles and hematological disorder
- Genetic haemochromatosis
- Huntington's disease
- Mental illness

Unit V- Services related to genetics:

- Genetic testing
- Gene therapy
- Genetic counseling
- Legal and Ethical issues
- Role of nurse

Reference Books

1. Kavita B. Ahluwalia, *Genetics*, New Age International (P) LTD, New Delhi.
2. Pal G. P, *Basics of Medical Genetics*, A.I.T.B.S Publishers, New Delhi.
3. Kumari Navneet, *Essential Genetics for Nurses*, Lotus publication, Jalandhar.

****Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|----------------|---|-------|---------|
| N-AHNL(II) 225 | Adult Health Nursing II with Integrated Pathophysiology including Geriatric Nursing & Palliative care module | 140 | 07 |

Course Learning Outcomes:

CLO01: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection and sharpen clinical skills

CLO02: Explain the causes, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders to amplify the employability prowess.

CLO03: Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities and identify the drugs used in treating patients with selected medical surgical conditions.

CLO04: Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.

CLO05: Maintain safe environment for patient & health care personnel, and provide evidence based nursing care.

Course Contents

Unit I- Nursing management of patient with disorders of Ear, Nose and Throat

Includes etiology, pathophysiology, clinical manifestations, diagnostic measures and medical, surgical, nutritional and nursing management)

- Review of anatomy and physiology of the ear, nose and throat
- History, physical assessment, and diagnostic tests
- **Ear:** External ear: deformities otalgia, foreign bodies and tumors, Middle ear: impacted wax, tympanic membrane perforation, otitis media, and tumors, Inner ear: Meniere's disease, labyrinthitis, ototoxicity tumors, Upper respiratory airway infections: Rhinitis, sinusitis, tonsillitis, laryngitis, Epistaxis, Nasal obstruction, laryngeal obstruction, Deafness and its management

Unit II- Nursing management of patient with disorder of eye:

- Review of anatomy and physiology of the eye
- History, physical assessment, diagnostic assessment

Eye Disorders

- Refractive errors
- Eyelids: infection, deformities
- Conjunctiva: inflammation and infection bleeding
- Cornea: inflammation and infection
- Lens: cataract
- Glaucoma
- Retinal detachment
- Blindness
- Eye donation, banking and transplantation

Unit III- Nursing management of patient with Kidney and Urinary problems:

- Review of Anatomy and physiology of the genitourinary system
- History, physical assessment, diagnostic tests
- Urinary tract infections: acute, chronic, lower, upper
- Nephritis, nephrotic syndrome
- Renal calculi
- Acute and chronic renal failure
- Disorders of ureter, urinary bladder and Urethra
- Disorders of prostate: inflammation, infection, stricture, obstruction, and Benign Prostate Hypertrophy

Unit IV- Nursing management of disorders of male reproductive system:

- Review of Anatomy and physiology of the male reproductive system
- History, Physical Assessment, Diagnostic tests
- Infections of testis, penis and adjacent structures: Phimosis, Epididymitis and Orchitis
- Sexual dysfunction, infertility, contraception
- Male Breast Disorders: gynecomastia, tumor, climacteric changes

Unit V- Nursing management of patient with burns, reconstructive and cosmetic surgery:

- Review of anatomy and physiology of the skin and connective tissues
- History, physical assessment, assessment of burns and fluid & electrolyte loss
- Burns
- Reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes, gender reassignment
- Legal and ethical aspects
- Special therapies: LAD, vacuumed dressing. Laser, liposuction, skin health rejuvenation, use of derma filters

Unit VI- Nursing management of patient with neurological disorders:

- Review of anatomy and physiology of the neurological system
- History, physical and neurological assessment, diagnostic tests
- Headache, Head injuries
- Spinal injuries: Paraplegia, Hemiplegia, Quadriplegia
- Spinal cord compression: herniation of intervertebral disc
- Intra cranial and cerebral aneurysms
- Meningitis, encephalitis, brain abscess, neuro-cysticercosis
- Movement disorders: Chorea, Seizures & Epilepsies

- Cerebrovascular disorders: CVA
- Cranial, spinal neuropathies: Bell's palsy, trigeminal neuralgia
- Peripheral Neuropathies
- Degenerative diseases: Alzheimer's disease, Parkinson's disease
- Guillain-Barré syndrome, Myasthenia gravis & Multiple sclerosis
- Rehabilitation of patient with neurological deficit

Unit VII- Nursing management of patients with Immunological problems:

- Review of Immune system
- Nursing Assessment: History and Physical assessment
- HIV & AIDS: Epidemiology, Transmission, Prevention of Transmission and management of HIV/AIDS
- Role of Nurse; Counseling, Health education and home care consideration and rehabilitation
- National AIDS Control Program –NACO, various national and international agencies for infection control

Unit VIII- Nursing management of patient with Oncological conditions:

- Structure and characteristics of normal and cancer cells
- History, physical assessment, diagnostic tests
- Prevention screening early detection warning sign of cancer
- Epidemiology, etiology classification, Pathophysiology, staging clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of Oncological condition
- Common malignancies of various body system eye, ear, nose, larynx, breast, cervix, ovary, uterus, sarcoma, renal, bladder, kidney, prostate Brain, Spinal cord.
- Oncological emergencies
- Modalities of treatment: Chemotherapy, Radiotherapy: Radiation safety, AERB regulations, Surgical intervention, Stem cell and bone marrow transplant,

Immunotherapy, Gene therapy

- Psychological aspects of cancer: anxiety, depression, insomnia, anger
- Supportive care
- Hospice care.

Unit IX-Nursing management of patient in Emergency and Disaster situations

Disaster Nursing:

- Concept and principles of disaster nursing, Related Policies
- Types of disaster: Natural and manmade
- Disaster preparedness: Team, guidelines, protocols, equipment, resources
- Etiology, classification, Pathophysiology, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergencies – Poly trauma, Bites, Poisoning and Thermal emergencies
- Principles of emergency management
- Medico legal aspects

Unit X-Nursing care of the elderly:

- History and physical assessment
- Aging process and age-related body changes and psychosocial aspects
- Stress and coping in elder patient
- Psychosocial and sexual abuse of elderly
- Role of family and formal and non-formal caregivers
- Use of aids and prosthesis (hearing aids, dentures)
- Legal and ethical issues
- National programs for elderly, privileges, community programs and health services
- Home and institutional care

Unit XI-Nursing management of patients in critical Care units:

- Principles of critical care nursing
- Organization: physical set-up, policies, staffing norms
- Protocols, equipment and supplies Use and application of critical care biomedical equipment: ventilators, cardiac monitors, defibrillators, infusion pump, Resuscitation equipment and any other
- Advanced Cardiac Life support
- Nursing management of critically ill patient
- Transitional care
- Ethical and Legal Aspects
- Breaking Bad News to Patients and/or their families: Communication with patient and family
- End of life care

Unit XII-Nursing management of patient's occupational and industrial disorders:

- History, physical examination, Diagnostic tests
- Occupational diseases and management.

Reference Books

1. Bruno peulenic, Patrick Maxial, *Medical Surgical Nursing- Pathophysiological Concept*, J.B .Linnincott Co. Philadelnhia.
2. Sorensen and Luckmann, *Basic Nursing A Psycho-Physiological Approach*, John Wright publishing Co.
3. Perry, Ann G. and Patricia A. Potter, *Clinical Nursing Skills and Techniques*, The C.V Mosby Co., 1990, St Louis.
4. Mary Powell, *Orthopaedic Nursing*, ELBS, 1976.
5. Sathoskar R. S., *Pharmacology and Pharmacotherapeutics*, Bombay popular Prakashan, Bombay.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|----------------|---|-------|---------|
| N-AHNP(II) 225 | Adult Health Nursing II with Integrated Pathophysiology including Geriatric Nursing and Palliative care module Practical | 520 | 07 |

Course Learning Outcomes:

CLO01: Perform complete health assessment and develop skills and apply scientific principles in performing nursing procedures.

CLO02: Utilize the nursing process in providing care to sick adults in hospital.

CLO03: Explain nursing actions appropriately to the patients, meet educational needs and maintain safe environment.

CLO04: Demonstrate the awareness of legal and ethical issues in nursing practice.

CLO05: Integrate knowledge of pathology, nutrition & pharmacology for the patients experiencing health illnesses to augment employability.

Nursing Management of Patients with ENT Disorders

Skill Lab

Use of manikins and simulators

Tracheostomy care

Instilling Ear and Nasal medications

Bandage application

Clinical Postings:

ENT Ward and OPD:

- Examination of ear, nose, throat and History taking
- Applying bandages to Ear, Nose
- Tracheostomy care
- Preparation of patient, assisting and monitoring of patients undergoing diagnostic procedures

- Auditory screening tests

Audiometric tests

- Preparing the patient and assisting in special procedures like Anterior/ posterior nasal packing, Ear Packing and Syringing
- Preparation and after care of patients undergoing ENT surgical procedures
- Instillation of drops/medication

II. Nursing Management of Patients with eye conditions

Skill Lab: Use of manikins and simulators- Instilling Eye medications, Eye irrigation, Eye bandage.

Clinical Postings:

Ophthalmology Unit:

- History taking, Examination of eyes and interpretation
- Assisting procedures
- Visual acuity
- Fundoscopy, retinoscopy, ophthalmoscopy, tonometry, Refraction tests
- Pre and post-operative care
- Instillation of drops/ medication
- Eye irrigation
- Application of eye bandage
- Assisting with foreign body removal

III. Nursing Management of Patients with Kidney and Urinary System Disorders

Skill Lab: Use of manikins and simulators- Assessment: kidney & urinary system, Preparation: dialysis, Catheterization and care.

Clinical Postings:

Renal ward/ nephrology ward including Dialysis unit:

Assessment of kidney and urinary system

- History taking
- Physical examination
- Testicular self-examination
- Digital rectal exam

Preparation and assisting with diagnostic and therapeutic procedures

- Cystoscopy, Cystometrogram,
- Contrast studies: IVP etc.
- Peritoneal dialysis
- Hemodialysis,
- Lithotripsy
- Specific tests: Semen analysis, gonorrhoea test, Renal/ Prostate Biopsy etc.
- Catheterization: care
- Bladder irrigation
- I/O recording and monitoring
- Ambulation and exercise

IV. Nursing Management of Patients with Burns and Reconstructive Surgery

Skill Lab: Assessment of burns wound, Wound dressing

Clinical Postings:

Burns unit/ reconstructive surgical unit:

- Assessment of burns
- First aid of burns
- Fluid & electrolyte replacement therapy
- Skin care

- Care of Burn wounds
- Bathing
- Dressing
- Pre-operative and post- operative care of patients
- Caring of skin graft and postcosmetic surgery
- Rehabilitation

V. Nursing Management of Patients with Neurological Disorders

Skill Lab: Range of motion exercises, Muscle strengthening exercises, Crutch walking

Clinical Postings:

Neurology- medical/ Surgery wards:

- History taking; Neurological Examination
- Patient monitoring
- Prepare and assist for various invasive and non-invasive diagnostic procedures
- Range of motion exercises, muscle strengthening
- Care of medical, surgical and rehabilitative patients

VI. Nursing Management of Patients with Immunological Disorders

Skill Lab: Barrier Nursing, Reverse Barrier Nursing

Clinical Postings:

Isolation ward/ Medical ward:

- History taking
- Immunological status assessment (e.g. HIV) and Interpretation of specific tests
- Caring of patients with low immunity
- Practicing of standard safety measures, precautions/barrier nursing/reverse barrier/isolation skills

VII.Nursing Management of Patients with Oncological Disorders

Skill Lab: Use of manikins and simulators- Application of topical medication, Administration of chemotherapy

Clinical Postings:

Oncology wards (including day care radiotherapy unit):

- History taking & physical examination of cancer patients
- Screening for common cancers: TNM classification
- Preparation, assisting and after care patients undergoing diagnostic procedures
- Biopsies/FNAC
- Pap smear
- Bone-marrow aspiration
- Various modalities of treatment
- Chemotherapy
- Radiotherapy
- Pain management
- Stoma therapy
- Hormonal therapy
- Immuno therapy
- Gene therapy
- Alternative therapy
- Stoma care and feeding
- Caring of patients treated with nuclear medicine
- Rehabilitation

VIII. Nursing Management of Patients in Emergency condition

Skill Lab: Use of manikins and simulators- Assessment: primary and secondary survey, Trauma care: bandaging, wound care, splinting, positions.

Clinical Postings:

Emergency room/ Emergency unit:

- Practicing ‘_triage’
- Primary and secondary survey in emergency
- Examination, investigations & their interpretations, in emergency & disaster situations
- Emergency care of medical and traumatic injury patients
- Documentations, assisting in legal procedures in emergency unit
- Managing crowd
- Counseling the patient and family in dealing with grieving & bereavement

IX. Nursing Management of Geriatric Patients

Skill Lab: Use of manikins and simulators- Use of assistive safety devices

Clinical Postings:

Geriatric ward:

- History taking and assessment of Geriatric patient

X. Nursing Management of Patients in critical care units

Skill Lab: Use of manikins and simulators- Assessment critically ill, ET tube set up –suction, TT suction, Ventilator set up, Chest drainage, Bag mask ventilation, Central & Peripheral line, Pacemaker.

Clinical Postings:

Critical Care Unit:

- Assessment of critically ill patients
- Assisting in arterial puncture, ET tube intubation & extubation
- ABG analysis & interpretation - respiratory acidosis, respiratory alkalosis, metabolic

acidosis, metabolic alkalosis

- Setting up of Ventilator modes and settings and care of patient on a ventilator
- Set up of trolley with instruments
- Monitoring and maintenance of Chestdrainage system
- Bag and mask ventilation
- Assisting and maintenance of Central and peripheral lines invasive
- Setting up of infusion pump, defibrillator,
- Drug administration-infusion, intracardiac, intrathecal, epidural,
- Monitoring pacemaker
- ICU care bundle
- Management of the dying patient in the ICU

Reference Books

1. Bruno peulenic, Patrick Maxial, *Medical Surgical Nursing- Pathophysiological Concept*, J.B .Linnincott Co. Philadelnhia.
2. Sorensen and Luckmann, *Basic Nursing A Psycho-Physiological Approach*, John Wright publishing Co.
3. Perry, Ann G. and Patricia A. Potter, *Clinical Nursing Skills and Techniques*, The C.V Mosby Co., 1990, St Louis.
4. Mary Powell, *Orthopaedic Nursing*, ELBS, 1976.
5. Sathoskar R. S., *Pharmacology and Pharmacotherapeutics*, Bombay popular Prakashan, Bombay.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|-------------|---|-------|---------|
| PROF 230 | Professionalism, Professional Values and Ethics including Bioethics | 20 | 01 |

Course Learning Outcomes:

CLO01: Describe profession and professionalism and exhibit skills in maintaining respectful communication and relationship with other health team members, patients and society.

CLO02: Describe various regulatory bodies and professional organizations related to nursing.

CLO03: Explain the professional values and reflect on the role and responsibilities in providing compassionate care in the healthcare setting to build up employability.

CLO04: Identify ethical and bioethical concerns, issues and dilemmas in nursing and apply knowledge of ethics and bioethics in ethical decision making.

CLO05: Advocate for patients wellbeing , professional growth & advancing profession

Course outline

Unit I- Professionalism

Profession:

- Definition of profession
- Criteria of a profession
- Nursing as a profession

Professionalism:

- Definition and characteristics of professionalism
- Concepts, attributes and indicators of professionalism
- Challenges of professionalism
- Personal identity vs professional identity
- Preservation of self-integrity: threat to integrity, Deceiving patient: withholding information and falsifying records
- Communication & Relationship with team members: Respectful and open communication and relationship pertaining to relevant interests for ethical decision making
- Relationship with patients and society

Professional Conduct:

- Following ethical principles

- Adhering to policies, rules and regulation of the institutions
- Professional etiquettes and behaviours
- Professional grooming: Uniform, Dress code
- Professional boundaries: Professional relationship with the patients, caregivers and team members

Regulatory Bodies & Professional Organizations: Roles & Responsibilities:

- Regulatory bodies: Indian Nursing Council, State Nursing Council
- Professional Organizations: Trained Nurses Association of India (TNAI), Student Nurses Association (SNA), Nurses League of Christian Medical Association of India, International Council of Nurses (ICN) and International Confederation of Midwives

Unit II- Professional values:

- Values: Definition and characteristics of values
- Value clarification
- Personal and professional values
- Professional socialization: Integration of professional values with personal values

Professional values in nursing

- Importance of professional values in nursing and health care
- Caring: definition, and process
- Compassion: Sympathy Vs empathy, Altruism
- Conscientiousness
- Dedication/devotion to work
- Respect for the person- Human dignity
- Privacy and confidentiality: Incidental disclosure
- Honesty and integrity: Truth telling
- Trust and credibility: Fidelity, Loyalty

- Advocacy: Advocacy for patients, work environment, nursing education and practice, and for advancing the profession

Unit III- Ethics & Bioethics

Definitions: Ethics, Bioethics and Ethical Principles

- Beneficence
- Non-maleficence: Patient safety, protecting patient from harm, Reporting errors
- Justice: Treating each person as equal
- Care without discrimination, equitable access to care and safety of the public
- Autonomy: Respects patients' autonomy, Self-determination, Freedom of choice

Ethical issues and ethical dilemma: Common ethical problems

- Conflict of interest
- Paternalism
- Deception
- Privacy and confidentiality
- Valid consent and refusal
- Allocation of scarce nursing resources
- Conflicts concerning new technologies
- Whistle-blowing

Beginning of life issues

- Abortion
- Substance abuse
- Fetal therapy
- Selective deduction
- Intrauterine treatment of fetal conditions

- Mandated contraception
- Fetal injury
- Infertility treatment

End of life issues

- End of life
- Euthanasia
- Do Not Resuscitate (DNR)

Issues related to psychiatric care

- Non compliance
- Restrain and seclusion
- Refuse to take food

Reference Books:

1. Ellis Peter, Understanding ethics for Nursing Students, 1st edition, SAGE Publications Ltd., 2014.
2. Ian E. Thompson Kath M et'al, Nursing Ethics, Elsevier Health Sciences, 2006.
3. Chadwick Ruth, Ethics and Nursing Practices, 2nd Edition, Billonsbury Publishing Plc., 2016.
4. Tingle, John Wiley, Nursing Law and Ethics, 4th Edition, John Wiley, 2012.
5. Graham Rumbold, Ethics in Nursing Practice, 3rd Edition, Elsevier Health Sciences, 1999.

**** Latest editions of all the suggested books are recommended.***

SEMESTER V

| Course Code | Name of Course | Hours | Credits |
|---------------------|--|-------|---------|
| Qu-N-CHNL(I) 301 | Child Health Nursing I including Essential newborn care (EBNC), FBNC, IMNCI and PLS, modules | 60 | 03 |

Course Learning Outcomes:

CLO01: Develop understanding about modern concepts of child health care and emphasis on national child welfare services.

CLO02: Apply the knowledge and demonstrate skills in nursing management of common childhood diseases.

CLO03: Apply principles and strategies of integrated management of neonatal and childhood illness (IMNCI).

CLO04: Participate in national and Universal Immunization Program.

CLO05: Identify and manage childhood emergencies effectively and perform child CPR to boost employability skillset.

Course outline

Unit I: Introduction: Modern concepts of child- care

- Historical development of child health
- Philosophy and modern concept of child-care
- Cultural and religious considerations in child-care
- National policy and legislations in relation to child health and welfare
- National programs and agencies related to welfare services to the children
- Internationally accepted rights of the child
- Changing trends in hospital care, preventive, promotive and curative aspect of child health
- **Preventive pediatrics:**
 - Concept
 - Immunization
 - Immunization programs and cold chain
 - Care of under-five and Under-five Clinics/Well-baby clinics
 - Preventive measures towards accidents
- Child morbidity and mortality rates
 - Difference between an adult and child which affect response to illness-
 - Physiological
 - Psychological

- Social
- Immunological
- Hospital environment for sick child
- Impact of hospitalization on the child and family
- Communication techniques for children
- Grief and bereavement
- The role of a child health nurse in caring for a hospitalized child
- Principles of pre and postoperative care of infants and children
- Child Health Nursing procedures:
 - Administration of medication: oral, I/M, & I/V
 - Calculation of fluid requirement
 - Application of restraints
- Assessment of pain in children-
 - FACES pain rating scale
 - FLACC scale, Numerical scale.

Unit II: The Healthy Child

- Definition and principles of growth and development
- Factors affecting growth and development
- Growth and development from birth to adolescence
- Growth and developmental theories (Freud, Erickson, Jean Piaget, Kohlberg)
- The needs of normal children through the stages of developmental and parental guidance
- Nutritional needs of children and infants-
 - breast feeding
 - exclusive breast feeding
 - Supplementary/artificial feeding and weaning
- Baby friendly hospital concept
- Types and value of play and selection of play material.

Unit III: Nursing care of Neonate

- Appraisal of Newborn
- Nursing care of a normal newborn/essential newborn care
- Neonatal resuscitation
- Nursing management of low birth weight baby
- Kangaroo mother care
- Nursing management of common neonatal disorder
 - Hyperbilirubinemia
 - Hypothermia

- Hyperthermia
- Metabolic disorder
- Neonatal infections
- Neonatal seizures
- Respiratory distress syndrome
- Retinopathy of Prematurity
- Organization of neonatal care unit
- Neonatal equipment

Unit IV: Integrated management of neonatal and childhood Illness

Unit V: Nursing management in common childhood disease

Respiratory system:

- Identification and Nursing management of congenital malformations
- Congenital disorders: Tracheoesophageal fistula, Diaphragmatic hernia
- Others: Acute naso-pharyngitis, Tonsillitis, Croup, Bronchitis, Bronchiolitis, Pneumonia, Asthma.

Endocrine system:

- Juvenile Diabetes mellitus
- Hypo-thyroidism.

Unit VI: Childhood Emergencies

- Accidents – causes and prevention, Poisoning, Foreign bodies, Hemorrhage, Burns and Drowning
- PLS (AHA Guidelines).

Reference Books

1. Alexander N M, Brown M.S., *Paediatric Physical Diagnosis for Nurses*, McGraw Hill Book Co., New York.
2. Blake G, Florence & Wright, *Essentials of Paediatric Nursing*,
3. Barbara EW, *Guidelines in the Care of the Low Birth Weight*, Orient Longman
4. Bowden Greenberg, *Paediatric Nursing Procedure*, Lippincott, Williams & Wilkins
5. Cameron, Jelinek et al, *Text Book of Emergency Paediatric Medicine*,
6. Ghai O.P., *Essential Text Book of Paediatrics*, Jaypee Brothers
7. Ghosh Shanti, *Nutrition and Child Care*, Jaypee Brothers, New Delhi.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|------------------|--|-------|---------|
| Qu-N-CHNP(I) 301 | Child Health Nursing I including Essential newborn care (EBNC), FBNC, IMNCI and PLS, modules (Practical) | 200 | 03 |

Course Learning Outcomes:

CLO01: Perform assessment of children: health, developmental & anthropometric to build up clinical skills.

CLO02: Provide nursing care to children with various medical disorders.

CLO03: Provide pre & postoperative care to children with common pediatric surgical conditions/ malformation.

CLO04: Give health education/nutritional education to parents.

CLO05: Counsel parents according to identified counselling needs

Paediatric Nursing Procedures: Administration of medication – Oral, IM & IV, Oxygen administration, Application of restraints, Specimen collection, Urinary catheterization and drainage, Ostomy care, Feeding – NG, gastrostomy, Jejunostomy, Wound dressing, Suture removal.

Skill Lab: Use of Manikins and Simulators PLS, CPAP, Endotracheal Suction

Clinical Area

Paediatric Medical Ward:

- Taking pediatric history
- Physical examination & assessment of children
- Administration of oral, I/M, & I/V medicine/fluids
- Calculation of fluid replacement
- Preparation of different strengths of I/V fluids
- Application of restraints
- Administration of O₂ inhalation by different methods
- Baby bath/sponge bath
- Feeding children by Katori spoon
- Paladai cup
- Collection of specimens for common investigations
- Assisting with common diagnostic procedures
- Teaching mothers/ parents-

- Malnutrition
- Oral rehydration therapy
- Feeding & Weaning
- Immunization schedule
- Play therapy

Paediatric Surgical Ward:

- Calculation, preparation & administration of I/V fluids
- Bowel wash, insertion of suppositories
- Care for ostomies:
- Colostomy Irrigation
 - Ureterostomy
 - Gastrostomy
 - Enterostomy
- Urinary catheterization & drainage
- Feeding-
 - Naso-gastric
 - Gastrostomy
 - Jejunostomy
- Care of surgical wounds
 - Dressing
 - Suture removal

Paediatric OPD/ Immunization Room:

- Assessment of children-
 - Health assessment
 - Developmental assessment
 - Anthropometric assessment
- Immunization
- Health / nutritional education.

NICU & PICU

- Care of a baby in incubator/warmer
- Care of a child on ventilator, CPAP
- Endotracheal Suction
- Chest Physiotherapy
- Administration of fluids with infusion pumps
- Total Parenteral Nutrition
- Phototherapy
- Monitoring of babies

- Recording & reporting
- Cardiopulmonary Resuscitation (PLS)

Reference Books

1. Alexander N M, Brown M.S., *Paediatric Physical Diagnosis for Nurses*, McGraw Hill Book Co., New York.
2. Ball, *Paediatric Nursing Caring for Children*, 1999, Prentice hall.
3. Behrman, Richard K & Vaughan, Nelson, *Text Book of Paediatrics*, WB Saunders Co.,
4. Blake G, Florence & Wright, *Essentials of Paediatric Nursing*,

**** Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|------------------|-------------------------|-------|---------|
| Qu-N-MHNL(I) 305 | Mental Health Nursing I | 60 | 03 |

Course Learning Outcomes:

CLO01: Describe the evolution of mental health nursing and its scope, principles and concepts.

CLO02: Perform mental health assessment and classify mental disorders to extend clinical skills.

CLO03: Apply the Indian Nursing Council practice standards for psychiatric mental health nursing in supervised clinical settings to fortify employability.

CLO04: Maintain therapeutic communication, nurse patient relationship and apply nursing process in delivering care to patients.

CLO05: Apply knowledge and demonstrate skills in managing various psychiatric disorders

Course Content

Unit I: Introduction

- Perspectives of Mental Health and Mental Health Nursing, evolution of mental health services, treatments and nursing practices
- Mental health team
- Nature & scope of mental health nursing
- Role & functions of mental health nurse in various settings and factors affecting the level of nursing practice
- Concepts of normal and abnormal behaviour.

Unit II: Principles and Concepts of Mental health Nursing

- Definition: mental health nursing and terminology used
- Classification of mental disorders: ICD11, DSM5, Geropsychiatry manual classification
- Review of personality development, defense mechanisms
- Etiology bio-psycho-social factors
- Psychopathology of mental disorders: review of structure and function of brain, limbic system and abnormal neurotransmission
- Principles of Mental health Nursing
- Ethics and responsibilities
- Practice Standards for Psychiatric Mental Health Nursing (INC practice standards)
- Conceptual models and the role of nurse:
 - Existential model
 - Psychoanalytical models
 - Behavioural model

- Interpersonal model
- Preventive psychiatry and rehabilitation.

Unit III: Mental Health Assessment

- History taking
- Mental status examination
- Mini mental status examination
- Neurological examination
- Investigations: Related Blood chemistry, EEG, CT & MRI
- Psychological tests

Unit IV: Therapeutic Communication and Nurse- Patient Relationship

- Therapeutic communication: Types, techniques, characteristics and barriers
- Therapeutic nurse-patient relationship
- Interpersonal relationship
- Elements of nurse patient contract
- Review of technique of IPR- Johari window
- Therapeutic impasse and its management.

Unit V: Treatment modalities and therapies used in mental disorders

- **Physical therapies:**
 - Psychopharmacology
 - Electro Convulsive therapy
- **Psychological Therapies:**
 - Psychotherapy
 - Behaviour therapy
 - CBT
- **Psychosocial:**
 - Group therapy
 - Family therapy
 - Therapeutic Community
 - Recreational therapy
 - Art therapy (Dance, Music, etc.)
 - Occupational therapy
- **Alternative & Complementary:**
 - Yoga

- Meditation
- Relaxation
- **Consideration for special populations.**

Unit VI: Nursing management of patient with Schizophrenia, and other psychotic disorders

- Prevalence and incidence
- Classification
- Etiology, psychodynamics, clinical manifestation, diagnostic criteria/formulations,

Nursing process:

- Nursing Assessment: History, Physical and mental assessment
- Treatment modalities and nursing management of patients with Schizophrenia and other psychotic disorders
- Geriatric considerations and considerations for special populations
- Follow up and home care and rehabilitation

Unit VII: Nursing management of patient with mood disorders

- Prevalence and incidence
- Mood disorders: Bipolar affective disorder, mania depression and dysthymia etc.
- Etiology, psycho dynamics, clinical manifestation, diagnosis
- Nursing Assessment History, Physical and mental assessment
- Treatment modalities and nursing management of patients with mood disorders
- Geriatric considerations/ considerations for special populations
- Follow-up and home care and rehabilitation.

Unit VIII: Nursing management of patient with neurotic, stress related and somatisation disorders

- Prevalence and incidence
- Classifications
- Anxiety disorders – OCD, PTSD, Somatoform disorders, Phobias, Dissociative and Conversion disorders
- Etiology, psychodynamics, clinical manifestation, diagnostic criteria/ formulations
- Nursing Assessment: History, Physical and mental assessment
- Treatment modalities and nursing management of patients with neurotic and stress related disorders
- Geriatric considerations/ considerations for special populations
- Follow-up and home care and rehabilitation.

Reference Books

1. Brown R. T. Feldman G. R., Epilepsy -Diagnosis and Management, Little Brown and Co., Toronto.
2. Beck M. C. Rawtins P. R. & et al, Mental Health – Psychiatric Nursing. The C.V. Mosby Co., Ltd.Toronto.
3. Coleman C. J, Abnormal Psychology and Modern Life. P. B. Tara and Sons Co. Pvt Ltd
4. Kaplan H. Saddock B, Synopsis of Psychiatry, William sand Wilkins, Bathmov.
5. Stuart W. G. Sundeen J. S, Principles and Practice of Psychiatric Nursing, Mosby Year Book, London.
6. 6.Taylor C.M., Essentials of Psychiatric Nursing, CV Mosby Co., London.
7. Shivas, Basic Concept of Psychiatric Mental Health Nursing, B.I Publications.

**** Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|------------------|-------------------------------------|-------|---------|
| Qu-N-MHNP(I) 305 | Mental Health Nursing I (Practical) | 80 | 01 |

Course Learning Outcomes:

CLO01: Assess patients with mental health problems/disorders

CLO02: Counsel and educate patients and families

CLO03: Perform individual and group psycho-education

CLO04: Provide nursing care to patients with mental health problems/disorders and patients with substance abuse.

CLO05: Apply knowledge and demonstrate skills in assisting and providing various treatment modalities and therapies.

Clinical Areas

Psychiatric OPD

- History taking
- Perform mental status examination (MSE)
- Observe/practice Psychometric assessment
- Perform Neurological examination
- Observing and assisting in therapies
- Individual and group psycho- education-
 - Mental hygiene practice education
 - Family psycho-education.

Child Guidance clinic

- History & mental status examination
- Observe/practice psychometric assessment
- Observe and assist in various therapies
- Parental teaching for child with mental deficiency.

Inpatient ward

- History taking
- Mental status examination (MSE)
- Neurological examination
- Assisting in psychometric assessment
- Recording therapeutic communication
- Administration of medications
- Assist Electro-Convulsive Therapy (ECT)

- Participating in all therapies
- Preparing patients for Activities of Daily Living (ADL)
- Conducting admission and discharge counseling
- Counselling and teaching patients and families .

Community psychiatry & De-addiction centre

- Conduct home visit and case work
- Identifying individuals with mental health problems
- Assisting in organizations of Mental Health camp
- Conducting awareness meetings for mental health & mental illness
- Counselling and Teaching family members, patients and community
- Observing de-addiction care.

Reference Books

1. Brown R. T. Feldman G. R., Epilepsy -Diagnosis and Management, Little Brown and Co., Toronto.
2. Beck M. C. Rawtins P. R. & et al, Mental Health – Psychiatric Nursing. The C.V. Mosby Co., Ltd.Toronto.
3. Coleman C. J, Abnormal Psychology and Modern Life. P. B. Tara and Sons Co. Pvt Ltd
4. Kaplan H. Saddock B, Synopsis of Psychiatry, William sand Wilkins, Bathmov.
5. Stuart W. G. Sundeen J. S, Principles and Practice of Psychiatric Nursing, Mosby Year Book, London.
6. 6.Taylor C.M., Essentials of Psychiatric Nursing, CV Mosby Co., London.
7. Shivas, Basic Concept of Psychiatric Mental Health Nursing, B.I Publications.

**** Latest editions of all the suggested books are recommended***

| Course Code | Name of Course | Hours | Credits |
|----------------|--|-------|---------|
| N-COMHL(I) 310 | Community Health Nursing I including Environmental Science and Epidemiology | 100 | 05 |

Course Learning Outcomes:

CLO01: Explain the approach, concepts and determinants of health and identify the levels of prevention and health problems in India

CLO02: Demonstrate understanding about environmental science, environmental health and sanitation.

CLO03: Identify and perform role and responsibility of community health nursing personnel in different health care levels in implementing national health programmes

CLO04: Utilize knowledge and skills in providing comprehensive primary health care across the life span at various settings.

CLO05: Make effective home visits and use epidemiological approach in community diagnosis to strengthen employability flair

Course Content

Unit I: Concepts of Community Health and Community Health Nursing

- Definition of public health, community health and community health nursing
- Public health in India and its evolution and Scope of community health nursing
- Review: Concepts of Health & Illness/ disease: Definition, dimensions and determinants of health and disease
- Natural history of disease, Levels of prevention: Primary, Secondary & tertiary prevention – Review
- Health problems (Profile) of India.

Unit II: Health Care Planning and Organization of Health Care at various levels

- Health planning steps
- Health planning in India: various committees and commissions on health and family welfare and Five Year plans
- Participation of community and stakeholders in health planning
- Health care delivery system in India: Infrastructure and Health sectors, Delivery of health services at sub-centre (SC), PHC, CHC, District level, state level and national level
- Sustainable development goals (SDGs), Primary Health Care and Comprehensive Primary Health Care (CPHC): elements, principles
- CPHC through SC/Health Wellness Centre (HWC), Role of MLHP/CHP

- National Health Care Policies and Regulations
 - National Health Policy (1983, 2002, 2017)
 - National Health Mission (NHM): National Rural Health Mission (NRHM), National Urban Health Mission (NUHM)
 - NHM, National Health Protection Mission (NHPM)
 - Ayushman Bharat
 - Universal Health Coverage.

Unit III: Environmental Science, Environmental Health, and Sanitation

- Natural resources: Renewable and non-renewable resources, natural resources and associated problems: Forest resources, water resources, mineral resources, food resources, energy resources and land resources
- Role of individuals in conservation of natural resources, and equitable use of resources for sustainable lifestyles
- Ecosystem: Concept, structure and functions of ecosystems, Types & Characteristics – Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem, Energy flow in ecosystem
- Biodiversity: Classification, value of bio-diversity, threats to biodiversity, conservation of biodiversity
- Environmental pollution: Introduction, causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards & their impact on health
- Climate change, global warming: ex. heat wave, acid rain, ozone layer depletion, waste land reclamation & its impact on health
- Social issues and environment: sustainable development, urban problems related to energy, water and environmental ethics
- Acts related to environmental protection and preservation.

Environmental Health & Sanitation:

- Concept of environment health and sanitation
- Concept of safe water, sources of water, waterborne diseases, water purification processes, household purification of water
- Physical and chemical standards of drinking water quality and tests for assessing bacteriological quality of water
- Concepts of water conservation: rain water harvesting and water shed management
- Concept of Pollution prevention, Air & noise pollution
- Role of nurse in prevention of pollution

- Solid waste management, human excreta disposal & management and sewage disposal and management
- Commonly used insecticides and pesticides.

Unit IV: Nutrition Assessment and Nutrition Education

- Review of Nutrition-
 - Concepts, types
 - Meal planning: aims, steps & diet plan for different age groups
 - Nutrition assessment of individuals, families and community by using appropriate methods.
- Planning suitable diet for individuals and families according to local availability of foods, dietary habits and economic status
- General nutritional advice
- Nutrition education: purpose, principles & methods and Rehabilitation
- Review: Nutritional deficiency disorders
- National nutritional policy & programs in India.

Food Borne Diseases and Food Safety

Food borne diseases:

- Definition, & burden
- Causes and classification
- Signs & Symptoms
- Transmission of food borne pathogens & toxins
- Early identification, initial management and referral.

Food poisoning & food intoxication:

- Epidemiological features/clinical characteristics
- Types of food poisoning
- Food intoxication-features, preventive & control measures
- Public health response to food borne diseases.

Unit V: Communication management and Health Education

- Behaviour change communication skills-
 - Communication
 - Human behavior
 - Health belief model: concepts & definition
 - ways to influence behavior
 - Steps of behaviour change

- Techniques of behaviour change: Guiding principles in planning BCC activity
- Steps of BCC
- Social and Behaviour Change Communication strategies (SBCC): techniques to collect social history from clients
- Barriers to effective communication, and methods to overcome them
- Health promotion and Health education: methods/techniques, and audio-visual aids.

Unit VI: Community health nursing approaches, concepts, roles and responsibilities of community health nursing personnel

- **Approaches:**
 - Nursing process
 - Epidemiological approach
 - Problem solving approach
 - Evidence based approach
 - Empowering people to care for themselves
- **Review:** Primary health care and Comprehensive Primary Health Care (CPHC).
- **Home Visits:**
 - Concept, Principles, Process, & Techniques: Bag technique
 - Qualities of Community Health Nurse
 - Roles and responsibilities of community health nursing personnel in family health services
 - Review: Principles & techniques of counselling.

Unit VII: Assisting individuals and families to promote and maintain their health

A. Assessment of individuals and families (Review from Child health nursing, Medical surgical nursing and OBG Nursing):

- Assessment of children, women, adolescents, elderly etc.
- Children: Monitoring growth and development, milestones
- Anthropometric measurements
- BMI
- Social development
- Temperature and Blood pressure monitoring
- Menstrual cycle
- Breast self-examination (BSE) and testicles self- examination (TSE)
- Warning Signs of various diseases
- Tests: Urine for sugar and albumin, blood sugar, Hemoglobin.

B. Provision of health services/primary health care:

- Routine check-up
- Immunization, counseling, and diagnosis

- Management of common diseases at home and health center level
- Care based on standing orders/protocols approved by MoH&FW
- Drugs dispensing and injections at health center.

C. Continue medical care and follow up in community for various diseases/disabilities

D. Carry out therapeutic procedures as prescribed/required for client and family

E. Maintenance of health records and reports:

- Maintenance of client records
- Maintenance of health records at the facility level
- Report writing and documentation of activities carried out during home visits, in the clinics/centers and field visits.

F. Sensitize and handle social issues affecting health and development of the family:

- Women empowerment
- Women and child abuse
- Abuse of elders
- Female foeticide
- Commercial sex workers
- Substance abuse.

G. Utilize community resources for client and family:

- Trauma services
- Old age homes
- Orphanages
- Homes for physically challenged individuals
- Homes for destitute
- Palliative care centres
- Hospice care centres
- Assisted living facility.

Unit VIII: Introduction to Epidemiology – Epidemiological Approaches and Processes:

- **Epidemiology:** Concept and Definition
- Distribution and frequency of disease
- Aims & uses of epidemiology, Epidemiological models of causation of disease, Concepts of disease transmission
- Modes of transmission: Direct, Indirect and chain of infection, Time trends or fluctuations in disease occurrence
- Epidemiological approaches: Descriptive, analytical and experimental
- Principles of control measures/levels of prevention of disease
- Investigation of an epidemic of communicable disease

- Use of basic epidemiological tools to make community diagnosis for effective planning and intervention.

Unit IX: Communicable Diseases and National Health Programs

1. Communicable Diseases – Vector borne diseases (Every disease will be dealt under the following headlines):

- Epidemiology of the following vector borne diseases
- Prevention & control measures
- Screening, and diagnosing the following conditions, primary management, referral and follow up-
 - ✓ Malaria
 - ✓ Filaria
 - ✓ Kala-azar
 - ✓ Japanese encephalitis
 - ✓ Dengue
 - ✓ Chickungunya.

2. Communicable diseases: Infectious diseases (Every disease will be dealt under the following headlines):

- Epidemiology of the following infectious diseases
- Prevention & Control measure
- Screening, diagnosing the following conditions, primary management, referral and follow up:
 - ✓ Leprosy
 - ✓ Tuberculosis
 - ✓ Vaccine preventable diseases – Diphtheria, whooping cough, tetanus, poliomyelitis and measles
 - ✓ Enteric fever
 - ✓ Viral hepatitis
 - ✓ HIV/AIDS/RTI infections
 - ✓ HIV/AIDS, and Sexually Transmitted Diseases/ Reproductive tract infections (STIs/RTIs)
 - ✓ Diarrhoea
 - ✓ Respiratory tract infections
 - ✓ COVID-19
 - ✓ Helminthic – soil & food transmitted and parasitic infections – Scabies and pediculosis.

3. Communicable diseases: Zoonotic diseases:

- Epidemiology of Zoonotic diseases
- Prevention & control measures
- Screening and diagnosing the following conditions, primary management, referral and follow up-
 - ✓ Rabies: Identify, suspect, primary management and referral to a health facility
 - ✓ Role of a nurse in control of communicable diseases.

National Health Programs

- UIP: Universal Immunization Program (Diphtheria, Whooping cough, Tetanus, Poliomyelitis, Measles and Hepatitis B)
- National Leprosy Eradication Program (NLEP)
- Revised National Tuberculosis Control Program (RNTCP)
- Integrated Disease Surveillance Program (IDSP): Enteric fever, Diarrhea, Respiratory infections and Scabies
- National Aids Control Organization (NACO)
- National Vector Borne Disease Control Program
- National Air Quality Monitoring Program
- Any other newly added program

Unit X: Non-Communicable Diseases and National Health Program (NCD)

- National response to NCDs (Every disease will be dealt under the following headlines)
- Epidemiology of specific diseases
- Prevention and control measures
- Screening, diagnosing/ identification and primary management, referral and follow up care.
- **NCD-1:**
 - Diabetes Mellitus
 - Hypertension
 - Cardiovascular diseases
 - Stroke & Obesity
 - **Blindness:** Categories of visual impairment and national program for control of blindness
 - **Deafness:** national program for prevention and control of deafness
 - **Thyroid diseases**
 - **Injury and accidents:** Risk factors for Road traffic injuries and operational guidelines for trauma care facility on highways.
- **NCD-2 Cancers:**
 - Cervical Cancer

- Breast Cancer
- Oral cancer
- Epidemiology of specific cancers
- Risk factors/ Causes
- Prevention, Screening, diagnosis – signs, Signs & symptoms, and early management & referral
- Palliative care
- Role of a nurse in non- communicable disease control program.
- **National Health Programs:**
 - National program for prevention and control of cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS)
 - National program for control of blindness
 - National program for prevention and control of deafness
 - National tobacco control program
- **Standard treatment protocols used in National Health Programs.**

Unit XI: School Health Services

- Objectives
- Health problems of school children
- Components of school health services
- Maintenance of school health records
- Initiation and planning of school health services
- Role of a school health nurse.

***Note: Lab hours less than 1 Credit is not specified separately.**

Reference Books

1. Clark, June & Jill Handerson, *Community Health*, Churchill Livingstone, New York.
2. Freeman B. Ruth, *Public Health Practices*, W. W. Saunders CO., Philadelphia.
3. Fromer Joan Margot, *Community Health Care and the Nursing Process*, C.V Mosby CO., Toronto.
4. Park J. E, *Text Book of Preventive and Social Medicine*, Ms Banarsidas Bhanot CO., Jabalpur.
5. Rao S. Kasthi, *An Introduction to Community Health Nursing*, B. I. Publishers, Madras.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|----------------|--|-------|---------|
| N-COMHP(I) 310 | Community Health Nursing I including Environmental Science and Epidemiology (Practical) | 160 | 02 |

Course Learning Outcomes:

CLO01: Provide health education to individual and families applying the principles and techniques of behaviour change appropriate to community settings

CLO02: Make effective home visits applying principles and methods used for home visit

CLO03: Use epidemiological approach and skills in community diagnosis and investigate epidemic of communicable diseases.

CLO04: Assess, diagnose, manage and refer clients with various communicable and non-communicable diseases

CLO05: Demonstrate skills in nutritional assessment for different age groups in community & provide appropriate counselling

Clinical Area:

Urban:

- Interviewing skills using communication and interpersonal relationship
- Conducting community needs assessment/survey to identify health determinants of a community
- Observation skills
- Nutritional assessment skills
- Skill in teaching individual/family on:
 - Nutrition, including food hygiene and safety
 - Healthy lifestyle
 - Health promotion
- Health assessment including nutritional assessment for clients of different age groups
- Documentation skills
- Investigating an epidemic – Community health survey

- Screening, diagnosing, primary management of common health problems in the community and referral of high-risk clients to FRUs
- Conduct home visit
- Participation in implementation of national health programs
- Participation in school health program.

Reference Books

1. Freeman B. Ruth, Public Health Practices, W. W. Saunders CO., 1990, Philadelphia.
2. Fromer Joan Margot, Community Health Care and the Nursing Process, C.V Mosby CO., Toronto.
3. Park J. E, Text Book of Preventive and Social Medicine, Ms Banarsidas Bhanot CO., Jabalpur.
4. Rao S. Kasthi, An Introduction to Community Health Nursing, B. I. Publishers, Madras.
5. Stan hope & Lancaster Janette, Community Health Process and Practice for Promoting Health, C.V Mosby & CO. London.

** Latest editions of all the suggested books are recommended*

| Course Code | Name of Course | Hours | Credits |
|-------------|---|-------|---------|
| EDUC 315 | Educational Technology/Nursing Education | 80 | 03 |

Course Learning Outcomes:

CLO01: Develop understanding of concept of teaching & learning, various teaching styles, curriculum planning & organizing

CLO02: Integrate the principles of teaching & learning in selection and use of educational media, evidence-based teaching practices.

CLO03: Demonstrate skills in selection and applying evaluation tools integrating cognitive, psychomotor, affective domains of learning that can measure knowledge and skills of students

CLO04: Identify crisis and grievances experienced by students and provide appropriate counselling

CLO05: Utilize active learning strategies and skills that enhance critical thinking, team learning & collaboration, and engage in ethical practice in education & clinical setting

Course contents

Unit I- Introduction and Theoretical Foundations:

Education and educational technology:

- Definition, aims
- Approaches and scope of educational technology
- Latest approaches to education:
 - Transformational education
 - Relationship based education
 - Competency based education.

Educational philosophy

- Definition of philosophy, education and philosophy
- Comparison of educational philosophies
- Philosophy of nursing education.
- **Teaching learning process**
- Definitions
- Teaching learning as a process
- Nature and characteristics of teaching and learning
- Principles of teaching and learning

- Barriers to teaching and learning
- Learning theories
- Latest approaches to learning:
 - Experiential learning
 - Reflective learning
 - Scenario based learning
 - Simulation based learning
 - Blended learning.

Unit II: Assessment and Planning

Assessment of teacher:

- Essential qualities of a teacher
- Teaching styles – Formal authority, demonstrator, facilitator, delegator.

Assessment of learner:

- Types of learners
- Determinants of learning – learning needs, readiness to learn, learning styles
- Today’s generation of learners and their skills and attributes
- Emotional intelligence of the learner
- Motivational factors – personal factors, environmental factors and support system.

Curriculum Planning:

- Curriculum – definition, types
- Curriculum design – components, approaches
- Curriculum development – factors influencing curriculum development, facilitators and barriers
- Writing learning outcomes/ behavioral objectives
- Basic principles of writing course plan, unit plan and lesson plan.

Unit III: Implementation

Teaching in Classroom and Skill lab – Teaching Methods:

- Classroom management-principles and strategies
- Classroom communication of Facilitators and Barriers to classroom communication
- Information communication technology (ICT) – ICT used in education.

Teaching methods – Features, advantages and disadvantages:

- Lecture, Group discussion, microteaching
- Skill lab – simulations
- Demonstration & re-demonstration
- Symposium, panel discussion, seminar, scientific workshop, exhibitions
- Role play

- Project,
- Field trips
- Self-directed learning (SDL)
- Computer assisted learning
- One-to-one instruction.

Active learning strategies:

- Team based learning
- Problem based learning
- Peer sharing
- Case study analysis
- Journaling
- Debate
- Gaming
- Inter-professional education.

Unit IV: Teaching in the Clinical Setting – Teaching Methods:

- Clinical learning environment
- Factors influencing selection of clinical learning experiences
- Practice model
- Characteristics of effective clinical teacher
- Writing clinical learning outcomes/practice competencies
- Clinical teaching strategies – patient assignment – clinical conference, clinical presentation/bedside clinic, Case study/care study, nursing rounds, concept mapping, project, debate, game, role play, PBL, questioning, written assignment & process recording.

Unit V- Educational/Teaching Media:

- Media use – Purpose, components, principles and steps
- Types of media
 - **Still visuals:** Non projected – drawings & diagrams, charts, graphs, posters, cartoons, board devices (chalk/white board, bulletin board, flannel board, flip charts, flash cards, still pictures/photographs, printed materials-hand out, leaflet, brochure, flyer, Projected – film stripes, microscope, power point slides, overhead projector.
 - **Moving visuals:** Video learning resources – videotapes & DVD, Blu-ray, USB flash drive, Motion pictures/films.
 - **Real and models:** Real objects & Models.
 - **Audio aids/audio media:** Audiotapes/Compact discs, Radio & Tape recorder, Public address system, Digital audio.
 - **Electronic media/computer learning resources:** Computers, Web-based videoconferencing, E-learning, Smart classroom.

- **Telecommunication (Distance education):** Cable TV, satellite broadcasting, videoconferencing Telephones – Telehealth/telenursing.
- **Mobile technology.**

Unit VI: Assessment/Evaluation Methods/Strategies:

- Purposes, scope and principles in selection of assessment methods and types
- Barriers to evaluation
- Guidelines to develop assessment tests

Assessment of knowledge:

- Essay type questions
- Short answer questions (SAQ)
- Multiple choice questions (MCQ – single response & multiple response)

Assessment of skills:

- Clinical evaluation
- Observation (checklist, rating scales, videotapes)
- Written communication – progress notes, nursing care plans, process recording, written assignments
- Verbal communication (oral examination)
- Simulation
- Objective Structured Clinical Examination (OSCE)
- Self-evaluation
- Clinical portfolio
- Clinical logs

Assessment of Attitude:

- Attitude scales

Assessment tests for higher learning:

- Interpretive questions, hot spot questions, drag and drop and ordered response questions.

Unit VII: Guidance/academic advising, counseling and discipline

● Guidance:

- Definition, objectives, scope, purpose and principles
- Roles of academic advisor/ faculty in guidance.

● Counseling:

- Difference between guidance and counselling
- Definition, objectives, scope, principles, types, process and steps of counselling
- Counseling skills/techniques – basics
- Roles of counsellor
- Organization of counseling services
- Issues for counseling in nursing students.

- **Discipline and grievance in students:**
 - Managing disciplinary/grievance problems – preventive guidance & counselling
 - Role of students ‘grievance redressal cell/committee.

Unit VIII: Ethics and Evidence Based Teaching (EBT) in Nursing Education

- **Ethics – Review:**
 - Definition of terms
 - Value based education in nursing
 - Value development strategies
 - Ethical decision making
 - Ethical standards for students
 - Student-faculty relationship
- **Evidence based teaching –Introduction:**
 - Evidence based education process and its application to nursing education.

References Books

1. Neelam Kumari, *A PV Text Book of Communication & Education Technology*, 2008.
2. Clark, June & Jill Handerson, *Community Health*, Churchill Livingstone, 1993, New York.
3. Freeman B. Ruth, *Public Health Practices*, W. W. Saunders CO., 1990, Philadelphia.
4. Fromer Joan Margot, *Community Health Care and the Nursing Process*, C.V Mosby CO., Toronto.
5. Park J. E, *Text Book of Preventive and Social Medicine*, Ms Banarsidas Bhanot CO., 1996, Jabalpur.
6. Rao S. Kasthi, *An Introduction to Community Health Nursing*, B. I. Publishers, Madras.
7. Stan hope & Lancaster Janette, *Community Health Process and Practice for Promoting Health*, C.V Mosby & CO. London.
8. Werner David, *Where There is no Doctor: A Village Heath Care Hand Book*, The Herperian Foundation, California.

*** Latest editions of all the suggested books are recommended**

| Course Code | Name of Course | Hours | Credits |
|-------------|----------------------------------|-------|---------|
| N-FORN 320 | Introduction to Forensic Nursing | 20 | 01 |

Course Learning Outcomes:

CLO01: Identify forensic nursing as an emerging specialty in healthcare and nursing practice.

CLO02: Explore the history and scope of forensic nursing practice.

CLO03: Explain the importance of forensic science in total care of patient.

CLO04: Develop basic understanding of the Indian judicial system and legal procedures.

CLO05: Identify forensic team, role and responsibilities of forensic nurse in total care of victim of violence and in preservation of evidence to build employability flair

Course Content

Unit I: Forensic Science:

- Definition
- History
- Importance in medical science
- Forensic Science Laboratory.
- **Violence:**
- Definition
- Epidemiology
- Source of data
- **Sexual abuse – child and women.**

Unit II: Forensic Nursing:

- Definition
- History and development
- Scope – setting of practice, areas of practice and subspecialties
- Ethical issues
- Roles and responsibilities of nurse, INC & SNC Acts.

Unit III: Forensic Team:

Members and their roles

- **Comprehensive forensic nursing care of victim and family:**
 - Physical aspects
 - Psychosocial aspects
 - Cultural and spiritual aspects

- Legal aspects
- Assist forensic team in care beyond scope of her practice
- Admission and discharge/referral/death of victim of violence
- Responsibilities of nurse as a witness
- **Evidence preservation – role of nurses:**
 - Observation
 - Recognition
 - Collection
 - Preservation
 - Documentation of Biological and other evidence related to criminal/traumatic event, forwarding biological samples for forensic examination.

Unit IV: Introduction of Indian Constitution

- **Fundamental Rights:** Rights of victim, Rights of accused
- **Human Rights Commission.**

Unit V: Sources of laws and law-making powers

- **Overview of Indian Judicial System:**
 - JMFC (Judicial Magistrate First Class)
 - District, State, Apex.
- **Civil and Criminal Case Procedures:**
 - IPC (Indian Penal Code)
 - ICPC
 - IE Act (Indian Evidence Act)
- **Overview of POSCO Act.**

Reference Books

1. Constantino Rose, Forensic Nursing: Evidence Based Principles and Practice, F.A. Davis Company, 1st Edition, 2013.
2. Mestri C Shashidhar, Manual of Forensic Medicine for Doctors, police officers and Nurses, 2nd Edition, Jaypee Brothers Medical Publishers, 2006.
3. Angela F. Amar et'al, Practical Guide to forensic Nursing, SIGMA Theta Pau International Centre for Nursing Press, 2015.
4. ANA, Forensic Nursing: Scope and Standards of Practice, 2nd Edition, ANA Publishers, 2017.
5. Pyrek Kelly M, Forensic nursing, Taylor and Francis Inc., 1st Edition, 2006.

*** Latest editions of all the suggested books are recommended. Course Learning Outcomes:**

SEMESTER-VI

| Course Code | Name of Course | Hours | Credits |
|----------------|---------------------------|-------|---------|
| N-CHNL(II) 301 | Child Health Nursing (II) | 40 | 02 |

Course Learning Outcomes

CLO01: Apply knowledge and demonstrate skills in provide nursing care to neonates with various diseases

CLO02: Apply knowledge and demonstrate skills in provide nursing care to children with various diseases.

CLO03: Provide care to children with common behavioural, social and psychiatric problems efficiently.

CLO04: Develop skills to manage challenged children

CLO05: Demonstrate understanding of the social and welfare services for challenged children.

Course Contents

Unit I: Cardiovascular system:

- Identification and Nursing management of congenital malformations
- **Congenital heart diseases:** Cyanotic and Acyanotic (ASD, VSD, PDA, TOF)
- Others- Rheumatic fever and Rheumatic heart disease, Congestive cardiac failure.
- **Haematological conditions:**
 - a) Congenital: Hemophilia, Thalassemia
 - b) Others- Anaemia, Leukaemia, Idiopathic thrombocytopenic purpura, Hodgkin's and non- Hodgkin's lymphoma.
- **Gastro-intestinal system:**
 - Identification and Nursing management of congenital malformations
 - Congenital: Cleft lip, Cleft palate, Congenital hypertrophic pyloric stenosis, Hirschsprungs disease (Megacolon), Anorectal malformation, Malabsorption syndrome, Abdominal wall defects, Hernia
 - Others: Gastroenteritis, Diarrhoea, Vomiting, Protein energy malnutrition, Intestinal obstruction, Hepatic diseases, intestinal parasites.
- **Genitourinary urinary system:**
 - Identification and Nursing management of congenital malformations
 - Congenital: Wilms tumor, Extropy of bladder, Hypospadias, Epispadias, Obstructive uropathy
 - Others- Nephrotic syndrome, Acute glomerulonephritis, renal failure.
- **Nervous system:**
 - Identification and Nursing management of congenital malformations

- Congenital: Spina bifida, Hydrocephalous
- Others: Meningitis, Encephalitis, Convulsive disorders (convulsions and seizures), Cerebral palsy head injury.

Unit II: Orthopedic disorders:

- Club foot
- Hip dislocation
- Fracture

Disorder of eye, ear and skin:

- Refractory errors
- Otitis Media
- Atopic dermatitis

Communicable diseases in children: Their identification/ diagnosis, nursing management in hospital, in home, control & prevention:

- Tuberculosis
- Diphtheria
- Tetanus
- Pertussis
- Poliomyelitis
- Mumps
- Chicken pox
- HIV/AIDS
- Dengue Fever
- COVID- 19.

Unit III: Management of behavior and social problems in children

- Child Guidance Clinic
- Common behavior disorders in children and management
 - Enuresis and Encopresis
 - Nervousness
 - Nail biting
 - Thumb sucking
 - Temper tantrum
 - Stealing
 - Aggressiveness
 - Juvenile delinquency
 - School phobia
 - Learning disability.
- **Psychiatric disorders in children and management:**
 - Childhood Schizophrenia

- Childhood Depression
- Conversion reaction
- Posttraumatic reaction
- Autistic spectrum disorders.
- **Eating disorder in children and management:**
 - Obesity
 - Anorexia nervosa
 - Bulimia.
- **Management of challenged children:**
 - Mentally
 - Physically
 - Socially
 - Child abuse
 - Substance abuse
- **Welfare services for challenged children in India.**

Reference Books

1. Alexander N M, Brown M.S., *Paediatric Physical Diagnosis for Nurses*, McGraw Hill Book Co., New York.
2. Ball, *Paediatric Nursing Caring for Children*, 1999, Prentice hall.
3. Behrman, Richard K & Vaughan, Nelson, s, *TextBook of Paediatrics*, WB Saunders Co.,
4. Blake G, Florence & Wright, *Essentials of Paediatric Nursing*,
5. Barbara EW, *Guidelines in the Care of the Low Birth Weight*, Orient Longman
6. Bowden Greenberg, *Paediatric Nursing Procedure*, Lippincott, Williams & Wilkins
7. Cameron, Jelinek et al, *Text Book of Emergency Paediatric Medicine*,
8. Ghai O.P., *Essential Text Book of Paediatrics*, Jaypee Brothers
9. Ghosh Shanti, *Nutrition and Child Care*, Jaypee Brothers, New Delhi.
10. Ghosh Shanti, *Know Your Child*, Jaypee Brothers, New Delhi.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|----------------|--|-------|---------|
| N-CHNP(II) 301 | Child Health Nursing (II) (Practical) | 80 | 01 |

Course Learning Outcomes:

CLO01: Exhibit skills in assessment of children and develop competencies in providing in nursing care of children with various disorders.

CLO02: Provide pre & postoperative care to children with common paediatric surgical conditions/ malformation

CLO03: Perform immunization as per NIS.

CLO04: Give health education/nutritional education to parents.

CLO05: Counsel to parents according to identified counselling needs.

Skill Lab: Use of Manikins and Simulators PLS, CPAP, Endotracheal Suction

Paediatric Nursing Procedures:

- Administration of medication – Oral, IM & IV, Oxygen administration
- Application of restraints
- Specimen collection
- Urinary catheterization and drainage
- Ostomy care
- Feeding – NG, gastrostomy, Jejunostomy
- Wound dressing
- Suture removal.

Paediatric Medical Ward:

- Taking paediatric history
- Physical examination & assessment of children
- Administration of oral, I/M, & I/V medicine/fluids
- Calculation of fluid replacement
- Preparation of different strengths of I/V fluids
- Application of restraints
- Administration of O₂ inhalation by different methods
- Baby bath/sponge bath
- Feeding children by Katori spoon, Paladai cup
- Collection of specimens for common investigations

- Assisting with common diagnostic procedures
- Teaching mothers/ parents- Malnutrition, Oral rehydration therapy
- Feeding & Weaning
- Immunization schedule
- Play therapy.

Paediatric Surgical Ward:

- Calculation, preparation and administration of I/V fluids
- Bowel wash, insertion of suppositories
- Care of ostomies- Colostomy irrigation, Ureterostomy, Gastrostomy, Enterostomy
- Urinary catheterization & drainage, feeding- Naso- gastric, Gastrostomy, Jejunostomy
- Care of surgical wound- Dressing
- Suture removal.

NICU/ PICU:

- Care of a baby on ventilator
- CPAP
- Care of a child on incubator/ warmer
- Endotracheal suction
- Chest physiotherapy
- Administration of fluids with infusion pumps
- Total Parenteral Nutrition
- Phototherapy
- Monitoring of babies
- Recording & reporting
- Cardiopulmonary Resuscitation (PLS).

Reference Books

1. Alexander N M, Brown M.S., *Paediatric Physical Diagnosis for Nurses*, McGraw Hill Book Co., New York.
2. Ball, *Paediatric Nursing Caring for Children*, 1999, Prentice hall.
3. Behrman, Richard K & Vaughan, Nelson, s, *TextBook of Paediatrics*, WB Saunders Co.,
4. Blake G, Florence & Wright, *Essentials of Paediatric Nursing*.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|-----------------|----------------------------|-------|---------|
| N-MHNL (II) 305 | Mental Health Nursing (II) | 40 | 02 |

Course Learning Outcomes:

CLO01: Apply nursing process in providing care to patients with various psychotic and neurotic disorders.

CLO02: Identify and assist in treating various psychiatric emergencies and perform crisis interventions under supervision.

CLO03: Demonstrate skills in admission and discharge procedures as per MHCA 2017.

CLO04: Apply nursing process in providing care to patients with organic brain disorders

CLO05: Explore the roles & responsibilities of community mental health nurse in delivering community mental health services

Course Contents

Unit I: Nursing Management of Patients with Substance Use Disorders

- Prevalence and incidence
- Commonly used psychotropic substance: classifications, forms, routes, action, intoxication and withdrawal
- Psychodynamics/etiology of substance use disorder (Terminologies: Substance Use, Abuse, Tolerance, Dependence, Withdrawal)
- Diagnostic criteria/formulations
- Nursing Assessment: History (substance history), Physical, mental assessment and drug and drug assay
- Treatment (detoxification, antabuse and narcotic antagonist therapy and harm reduction, Brief interventions, MET, refusal skills, maintenance therapy) and nursing management of patients with substance use disorders
- Special considerations for vulnerable population
- Follow-up and home care and rehabilitation.

Unit II: Nursing Management of Patient with Personality and Sexual Disorders

- Prevalence and incidence
- Classification of disorders
- Etiology, psychopathology, characteristics, diagnosis
- Nursing Assessment: History, Physical and mental health assessment
- Treatment modalities and nursing management of patients with personality, and sexual disorders
- Geriatric considerations

- Follow-up and home care and rehabilitation.

Unit III: Nursing Management of Behavioural & Emotional Disorders occurring during Childhood and Adolescence (Intellectual disability, autism, attention deficit, hyperactive disorder, eating disorders, learning disorder)

- Prevalence and incidence
- Classifications
- Etiology, psychodynamics
- Characteristics, diagnostic criteria/formulations
- Nursing Assessment: History, Physical, mental status examination and IQ assessment
- Treatment modalities and nursing management of childhood disorders including intellectual disability
- Follow-up and home care and rehabilitation.

Unit IV: Nursing Management of Organic Brain Disorders (Delirium, Dementia, amnesic disorders)

- Prevalence and incidence
- Classification
- Etiology, psychopathology, clinical features, diagnosis and Differential diagnosis
- Nursing Assessment: History, Physical, mental and neurological assessment
- Treatment modalities and nursing management of organic brain disorders
- Follow-up and home care and rehabilitation.

Unit V: Psychiatric Emergencies and Crisis Intervention

- Types of psychiatric emergencies (attempted suicide, violence/ aggression, stupor, delirium tremens and other psychiatric emergencies) and their managements
- Maladaptive behavior of individual and groups, stress, crisis and disaster(s)
- Types of crisis
- Crisis intervention: Principles, Techniques and Process-
 - Stress reduction interventions as per stress adaptation model
 - Coping enhancement

Unit VI: Legal Issues in Mental Health Nursing

- Overview of Indian Lunacy Act and The Mental Health Act 1987
- (Protection of Children from Sexual Offence) POSCO Act
- Mental Health Care Act (MHCA) 2017
- Rights of mentally ill clients
- Forensic psychiatry and nursing
- Acts related to narcotic and psychotropic substances and illegal drug trafficking
- Admission and discharge procedures as per MHCA 2017
- Role and responsibilities of nurses in implementing MHCA 2017.

Unit VII: Community Mental Health Nursing

- Development of Community Mental Health Services
- National mental health policy viz. National Health Policy
- National Mental Health Program
- Institutionalization versus Deinstitutionalization
- Model of Preventive psychiatry
- Mental Health Services available at the primary, secondary, tertiary levels including rehabilitation and nurses' responsibilities
- Mental Health Agencies: Government and voluntary, National and International
- Mental health nursing issues for special populations: Children, Adolescence, Women Elderly, Victims of violence and abuse, Handicapped, HIV/AIDS etc.

Reference Books

1. Brown R. T. Feldman G. R., Epilepsy -Diagnosis and Management, Little Brown and Co., Toronto.
2. Beck M. C. Rawtins P. R. & et al, Mental Health – Psychiatric Nursing. The C.V. Mosby Co., Ltd.Toronto.
3. Coleman C. J, Abnormal Psychology and Modern Life. P. B. Tara and Sons Co. Pvt Ltd
4. Kaplan H. Saddock B, Synopsis of Psychiatry, William sand Wilkins, Bathmov.
5. Stuart W. G. Sundeen J. S, Principles and Practice of Psychiatric Nursing, Mosby Year Book, London.
6. Taylor C.M., Essentials of Psychiatric Nursing, CV Mosby Co., London.
7. Shivas, Basic Concept of Psychiatric Mental Health Nursing, B.I Publications.

**** Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|--------------|--|-------|---------|
| N-MHNP(I)305 | Mental Health Nursing (II) (Practical) | 160 | 02 |

Course Learning Outcomes:

CLO01: Provide nursing care to patients with mental health problems/substance abuse disorders.

CLO02: Perform individual & group psycho-education

CLO03: Apply knowledge and demonstrate competencies in assisting in various treatment modalities for patients with mental health disorders

CLO04: Identify and respond to psychiatric emergencies to strengthen employability.

CLO05: Exhibit skills in motivating the patients and families for early treatment and follow up.

Psychiatric OPD:

- History taking
- Perform mental status examination (MSE)
- Observe/practice Psychometric assessment
- Perform Neurological examination
- Observing and assisting in therapies
- Individual and group psycho- education
- Mental hygiene practice education
- Family psycho-education.

Child Guidance Clinic:

- History & mental status examination
- Observe/practice psychometric assessment
- Observe and assist in various therapies
- Parental teaching for child with mental deficiency.

Inpatient Ward:

- History taking
- Mental status examination (MSE)
- Neurological examination
- Assisting in psychometric assessment
- Recording therapeutic communication
- Administration of medication
- Assist Electroconvulsive therapy
- Participating in all therapies

- Preparing patients for activities of Daily Living (ADL's)
- Conducting admission and discharge counselling
- Counselling and teaching patients and families.

Community Psychiatry & De-addiction Centre:

- Conduct home visit and case work
- Identifying individuals with mental health problems
- Assisting in organizations of Mental Health camp
- Conducting awareness meetings for mental health & mental illness
- Counselling and Teaching family members, patients and community
- Observing de-addiction care.

Reference Books

1. Brown R. T. Feldman G. R., Epilepsy -Diagnosis and Management, Little Brown and Co., Toronto.
2. Beck M. C. Rawtins P. R. & et al, Mental Health – Psychiatric Nursing. The C.V. Mosby Co., Ltd.Toronto.
3. Coleman C. J, Abnormal Psychology and Modern Life. P. B. Tara and Sons Co. Pvt Ltd
4. Kaplan H. Saddock B, Synopsis of Psychiatry, William sand Wilkins, Bathmov.
5. Stuart W. G. Sundeen J. S, Principles and Practice of Psychiatric Nursing, Mosby Year Book, London.
6. Taylor C.M., Essentials of Psychiatric Nursing, CV Mosby Co., London.
7. Shivas, Basic Concept of Psychiatric Mental Health Nursing, B.I Publications.

**** Latest editions of all the suggested books are recommended***

| Course Code | Name of Course | Hours | Credits |
|--------------------------|---|-------|---------|
| NMLEL 330 & NMLEP 330 | Nursing Management & Leadership (Theory and Practical) | 140 | 04 |

Course Learning Outcomes:

CLO01: Apply the concept of human resource management and identify the job description of all categories of nursing personnel including in service education

CLO02: Develop and engage in team working and inter professional collaboration competencies enhance the employability skills.

CLO03: Demonstrate beginning competencies in planning, organizing and staffing at college including implementation and evaluation of curriculum to inculcate entrepreneurship abilities

CLO04: Identify effective leadership styles and develop leadership competencies to develop entrepreneur spirit.

CLO05: Demonstrate understanding of the INC guidelines for establishment and accreditation of educational institutions in terms of faculty norms, physical infrastructure and clinical facilities.

Course content

Unit I: Health Care and Development of Nursing Services in India

- Current health care delivery system of India – review
- Planning and development of nursing services and education at global and national scenario
- Recent trends and issues of nursing service and management.

Unit II: Management Basics Applied to Nursing

- Definitions, concepts and theories of management
- Importance, features and levels of management
- Management and administration
- Functions of management
- Principles of management
- Role of a nurse as a manager.

Introduction to Management Process:

- Planning
- Organizing
- Staffing
- Directing/Leading
- Controlling.

MANAGEMENT OF NURSING SERVICES

Unit III: Planning Nursing Services

- Vision, Mission, philosophy, objectives
- Nursing service policies, procedures and manuals
- Functional and operational planning
- Strategic planning
- Program planning – Gantt chart & milestone chart
- Budgeting – concepts, principles, types
- Budget proposal, cost benefit analysis
- Planning hospital and patient care unit (Ward)
- Planning for emergency and disaster.

Unit IV: Organizing

- Organizing as a process – assignment, delegation and coordination
- Hospital – types, functions & organization
- Organizational development
- Organizational structure
- Organizational charts
- Organizational effectiveness
- Hospital administration
- Control & line of authority
- Hospital statistics including hospital utilization indices
- Nursing care delivery systems and trends
- Role of nurse in maintenance of effective organizational climate.

Unit V: Staffing (Human Resource management)

- Definition, objectives, components and functions.

Staffing & Scheduling

- Staffing – Philosophy, staffing activities
- Recruiting, selecting, deployment
- Training, development, credentialing, retaining, promoting, transfer, terminating, superannuation
- Staffing units – Projecting staffing requirements/calculation of requirements of staff resources Nurse patient ratio, Nurse Population ratio as per SIU norms/IPH Norms, and Patient classification system
- Categories of nursing personnel including job description of all levels
- Assignment and nursing care responsibilities
- Turnover and absenteeism

- Staff welfare
- Discipline and grievances.

In-service Education

- Nature and scope of in-service education program
- Principles of adult learning – review
- Planning and organizing in-service educational program
- Methods, techniques and evaluation
- Preparation of report.

Material Resource Management

- Procurement, purchasing process, inventory control & role of nurse
- Auditing and maintenance in hospital and patient care unit.

Unit VI: Directing and Leading

- Definition, principles, elements of directing
- Supervision and guidance
- Participatory management
- Inter-professional collaboration
- Management by objectives
- Team management
- Assignments, rotations
- Maintenance of discipline
- Leadership in management.

Unit VII: Leadership

- Definition, concepts, and theories
- Leadership principles and competencies
- Leadership styles: Situational leadership, Transformational leadership
- Methods of leadership development
- Mentorship/preceptorship in nursing
- Delegation, power & politics, empowerment, mentoring and coaching
- Decision making and problem solving
- Conflict management and negotiation
- Implementing planned change.

Unit VIII: Controlling

- Implementing standards, policies, procedures, protocols and practices
- Nursing performance audit, patient satisfaction
- Nursing rounds
- Documentation – records and reports
- Total quality management – Quality assurance, Quality and safety

- Performance appraisal
- Program evaluation review technique (PERT),
- Bench marking
- Activity plan (Gantt chart)
- Critical path analysis

Unit IX: Organizational Behaviour and Human Relations

- Concepts and theories of organizational behavior
- Group dynamics
- Review – Interpersonal relationship
- Human relations
- Public relations in the context of nursing
- Relations with professional associations and employee unions
- Collective bargaining
- Review – Motivation and morale building
- Communication in the workplace – assertive communication
- Committees – importance in the organization, functioning

Unit X: Financial Management

- Definition, objectives, elements, functions, principles & scope of financial management
- Financial planning (budgeting for nursing department)
- Proposal, projecting requirement for staff, equipment and supplies for – Hospital & patient care units & emergency and disaster units
- Budget and Budgetary process
- Financial audit

Unit XI: Nursing Informatics/ Information Management – Review

- Patient records
- Nursing records
- Use of computers in hospital, college and community
- Telemedicine & Tele nursing
- Electronic Medical Records (EMR), HER

Unit XII: Personal Management- Review

- Emotional intelligence
- Resilience building, Stress and time management – de- stressing
- Career planning

MANAGEMENT OF NURSING EDUCATIONAL INSTITUTE

Unit XIII: Establishment of Nursing Educational Institutions

- Indian Nursing Council norms and guidelines – Faculty norms, physical facilities, clinical facilities, curriculum implementation, and evaluation/examination guidelines
- Coordination with regulatory bodies – INC and State Nursing Council
- Accreditation – Inspections
- Affiliation with university/State council/board of examinations.

Unit XIV: Planning and Organizing

- Philosophy, objectives and mission of the college
- Organization structure of school/college
- Review – Curriculum planning, Planning teaching and learning experiences, clinical facilities – master plan, time table and clinical rotation
- Budget planning – faculty, staff, equipment & supplies, AV aids, Lab equipment, library books, journals, computers and maintenance
- Infrastructure facilities – college, classrooms, hostel, library, labs, computer lab, transport facilities
- Records & reports for students, staff, faculty and administrative
- Committees and functioning
- Clinical experiences

Unit XV: Staffing and Student Selection

- Faculty/staff selection, recruitment and placement, job description
- Performance appraisal
- Faculty development
- Faculty/staff welfare
- Student recruitment, admission, clinical placement.

Unit XVI: Directing and Controlling

- Review – Curriculum implementation and evaluation
- Leadership and motivation, supervision – review
- Guidance and counseling
- Quality management – educational audit
- Program evaluation, evaluation of performance
- Maintaining discipline
- Institutional records and reports – administrative, faculty, staff and students.

Unit XVII: PROFESSIONAL CONSIDERATIONS

Review – Legal and Ethical Issues:

- Nursing as a profession – Characteristics of a professional nurse
- Nursing practice – philosophy, aim and objectives
- Regulatory bodies – INC and SNC constitution and functions

Review – Professional ethics:

- Code of ethics and professional conduct – INC & ICN
- Practice standards for nursing – INC
- International Council for Nurses (ICN)

Legal aspects in nursing:

- Consumer protection act, patient rights
- Legal terms related to practice, legal system – types of law, tort law & liabilities
- Laws related to nursing practice – negligence, malpractice, breach, penalties
- Invasion of privacy, defamation of character
- Nursing regulatory mechanisms – registration, licensure, renewal, accreditation, nurse practice act, regulation for nurse practitioner/specialist nursing practice.

Unit XVIII: Professional Advancement

- Continuing Nursing Education
- Career opportunities
- Membership with professional organizations – national and international
- Participation in research activities
- Publications – journals, newspaper.

Reference Books

1. Hedgerken Loretta E, *Teaching and Learning in School of Nursing*, J.B. Lippincott Co., 1987, New Delhi.
2. Tomyay de Rheba, Thompson, *Strategies for Teaching Nursing*, Willey Medical Publisher, 1982, New York.
3. Brown Amy W.B, *Curricular Development*, Saunders Co., Philadelphia.
4. Tyler Ralph.W, *Basic Principles of Curriculum and Instruction*, University of Chicago, Philadelphia.
5. Gillbert, J.J, *Educational Hand Book for Health Personnel WHO*, 1981, Geneva.

*** Latest editions of all the suggested books are recommended**

| Course Code | Name of Course | Hours | Credits |
|----------------------------|--|-------|---------|
| Qu-N- MIDWL(I)/OBGN 335 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing I including SBA module | 60 | 03 |

Course Learning Outcomes:

CLO0 1: Demonstrate skills in providing evidence based antenatal, intranatal, postnatal care and essential new born care.

CLO02: Demonstrate skills in providing evidence based essential new born care.

CLO03: Recognize the trends and issues in midwifery & obstetrical nursing

CLO04: Describe the methods of contraception and role of nurse/midwife in family welfare services.

CLO05: Provide youth friendly services, actively participate in family welfare programs

Course content

Unit I: Introduction to midwifery

- History of midwifery in India
- Current scenario:
 - Trends of maternity care in India
 - Midwifery in India – Transformative education for relationship based and transformative midwifery practice in India
- Vital health indicators – Maternal mortality ratio
- Infant Mortality Rate
- Neonatal Mortality Rate, perinatal mortality rate, fertility rates- Maternal death audit. National health programs related to RMNCH+A (Reproductive Maternal Newborn and Child Health + Adolescent Health)
- Current trends in midwifery and OBG nursing-
 - Respectful maternity and newborn care (RMNC)
 - Midwifery-led care units (MLCU)
 - Women centered care, physiologic birthing and de-medicalization of birth
 - Birthing centers, water birth, lotus birth
 - Essential competencies for midwifery practice (ICM)
 - Universal rights of child-bearing women
 - Sexual and reproductive health and rights
 - Women’s expectations & choices about care

- Legal provisions in midwifery practice in India:-
 - INC/MOH&FW regulations
 - ICM code of ethics
 - Ethical issues in maternal and neonatal care
 - Adoption laws, MTP act
 - Pre- Natal Diagnostic Test (PNDT) Act
 - Surrogate mothers
 - Roles and responsibilities of a midwife/Nurse practitioner midwife in different settings (hospital/ community)
 - Scope of practice for midwives.

Unit II: Anatomy and physiology of human reproductive system and conception (Maternal, Fetal & New-born physiology Review:

- Female organs of reproduction, Female pelvis – bones, joints, ligaments, planes, diameters, landmarks, inclination, pelvic variations, Foetal skull – bones, sutures, fontanelles, diameters, moulding, Fetopelvic relationship, Physiology of menstrual cycle, menstrual hygiene, Fertilization, conception and implantation, Embryological development, Placental development and function, placental barrier, Fetal growth and development, Fetal circulation & nutrition.

Unit III: Assessment and management of normal pregnancy (ante-natal)

Pre- pregnancy Care:

- Review of sexual development (Self Learning)
- Socio-cultural aspects of human sexuality (Self Learning)
- Preconception care
- Pre-conception counselling (including awareness regarding normal birth) Genetic counselling (Self Learning)
- Planned Parenthood.

Pregnancy assessment and antenatal care (I, II & III Trimesters)

Normal pregnancy

- Physiological changes during pregnancy
- Assess and confirm pregnancy: Diagnosis of pregnancy – Signs, differential diagnosis and confirmatory tests
- Review of maternal nutrition & malnutrition
- Building partnership with women following RMC protocol
- Fathers' engagement in maternity care.

Ante- natal care:

1st Trimester

- Antenatal assessment: History taking, physical examination, breast examination, laboratory investigation
- Identification and management of minor discomforts of pregnancy
- Antenatal care : as per GoI guidelines
- Antenatal counselling (lifestyle changes, nutrition, shared decision making, risky behavior, sexual life during pregnancy, immunization etc.)
- Danger signs during pregnancy
- Respectful care and compassionate communication
- Recording and reporting: as per the GoI guidelines
- Role of Doula/ASHAs.

II Trimester

- Antenatal assessment: abdominal palpation, fetal assessment, auscultate fetal heart rate – Doppler and pinnard’s stethoscope
- Assessment of fetal well-being: DFMC, biophysical profile, Non stress test, cardiotocography, USG, Vibro acoustic stimulation, biochemical tests
- Antenatal care
- Women centered care
- Respectful care and compassionate communication
- Health education on IFA, calcium and vitamin D supplementation, glucose tolerance test, etc., Education and management of physiological changes and discomforts of 2nd trimester
- Rh negative and prophylactic anti D
- Referral and collaboration, empowerment
- Ongoing risk assessment
- Maternal Mental Health.
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III Trimester

- Antenatal assessment: abdominal palpation, fetal assessment, auscultate fetal heart rate – Doppler and pinnard’s stethoscope
- Education and management of physiological changes and discomforts of 3rd trimester
- Third trimester tests and screening
- Fetal engagement in late pregnancy
- Childbirth preparation classes
- Birth preparedness and complication readiness including micro birth planning

- Danger signs of pregnancy – recognition of ruptured membranes
- Education on alternative birthing positions – women’s preferred choices, birth companion
- Ongoing risk assessment
- Cultural needs
- Women centered care
- Respectful and compassionate communication
- Health education on exclusive breastfeeding
- Role of Doula/ASHA’s.

Unit IV: Physiology, management and care during labour

- Normal labour and birth
- Onset of birth/labour
- Per vaginal examination (if necessary)
- Stages of labour
- Organization of labour room – Triage, preparation for birth
- Positive birth environment
- Respectful care and communication
- Drugs used in labour as per GoI guidelines

First Stage

- Physiology of normal labour
- Monitoring progress of labour using Partograph/labour care guide
- Assessing and monitoring Fetal wellbeing
- Evidence based care during 1st stage of labour
- Pain management in labour (non- pharmacological)
- Psychological support – Managing fear
- Activity and ambulation during first stage of labour
- Nutrition during labour
- Promote positive childbirth experience for women
- Birth companion
- Role of Doula/ASHA’s

Second Stage

- Physiology (Mechanism of labour)
- Signs of imminent labour
- Intrapartum monitoring
- Birth position of choice
- Vaginal examination
- Psychological support
- Non-directive coaching

- Evidence based management of physiological birth/Conduction of normal childbirth
- Essential newborn care (ENBC)
- Immediate assessment and care of the newborn
- Role of Doula/ASHA's.

Third Stage

- Physiology – placental separation and expulsion, hemostasis
- Physiological management of third stage of labour
- Active management of third stage of labour (recommended)
- Examination of placenta, membranes and vessels
- Assess perineal, vaginal tear/ injuries and suture if required
- Insertion of postpartum IUCD
- Immediate perineal care
- Initiation of breast feeding
- Skin to skin contact
- Newborn resuscitation

Fourth stage

Observation, Critical Analysis and Management of mother and newborn:

- Maternal assessment, observation fundal height, uterine consistency, urine output, blood loss
- Documentation and Record of birth
- Breastfeeding and latching
- Managing uterine cramp
- Alternative/complementary therapies
- Role of Doula/ASHA's
- Various childbirth practices
- Safe environment for mother and newborn to promote bonding
- Maintaining records and reports

Unit V: Postpartum care/ Ongoing care of the women

- Normal puerperium – Physiology, duration, Post-natal assessment and care – facility and home-based care
- Perineal hygiene and care
- Bladder and bowel function
- Minor disorders of puerperium and its management
- Physiology of lactation and lactation management
- Postnatal counselling and psychological support
- Normal postnatal baby blues and recognition of post-natal depression

- Transition to parenthood
- Care for the woman up to 6 weeks after childbirth
- Cultural competence (Taboos related to postnatal diet and practices)
- Diet during lactation-review
- Post-partum family planning
- Follow-up of postnatal mothers
- Drugs used in the postnatal period
- Records and reports

Unit VI: Assessment and ongoing care of normal neonates

- Family centered care
- Respectful newborn care and communication
- Normal Neonate – Physiological adaptation
- Newborn assessment – Screening for congenital anomalies
- Care of new-born up to 6 weeks after the childbirth (Routine care of newborn)
- Skin to skin contact and thermoregulation
- Infection prevention
- Immunization
- Minor disorders of newborn and its management.

Unit VII: Family welfare services

- Impact of early/frequent childbearing
- Comprehensive range of family planning methods- Temporary methods – Hormonal, non-hormonal and barrier methods
- Permanent methods – Male sterilization and female sterilization.
- Action, effectiveness, advantages, disadvantages, myths, misconception and medical eligibility criteria (MEC) for use of various family planning methods
- Emergency contraceptives
- Recent trends and research in contraception
- Family planning counseling using Balanced Counseling Strategy (BCS)
- Legal and rights aspects of FP
- Human rights aspects of FP adolescents
- Youth friendly services – SRHR services, policies affecting SRHR and attitude of nurses and midwives in provision of services (Review)
- Importance of follow up and recommended timing.

Gender related issues in SRH:

- Gender based violence – Physical, sexual and abuse
- Laws affecting GBV and role of nurse/midwife
- Special courts for abused people
- Gender sensitive health services including family planning

Reference Books

1. Buckley Kathleen and Kulb Nancy W, *High Risk Maternity Nursing Manual*, Williams & Wilkin, 1993, Philadelphia.
2. Bennet V Ruth & Brown K Linda, *Myles Text Book for Midwives*, ELBS, Churchill Livingstone.
3. Calander, R & Miller A, *Obstetrics Illustrated*, Churchill & Livingstone, 1993, New York.
4. Dawn C.S, *Text Book of Obstetrics and Neonatology*, Dawn Books, Calcutta.
5. Dawn C.S, *Text Book of Gynecology and Contraception*, Dawn Books, Calcutta.
5. Dutta D.C, *Text Book of Obstetrics*, New Central Agency, Calcutta.
6. Dutta D.C, *Text Book of Gynaecology*, New Central Agency, Calcutta.
2. Daftary Shrish, *Holland and Brews Manual of Obstetrics*, B Churchill Livingstone Ltd, New Delhi.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|---------------------------|--|-------|---------|
| Qu-N- MIDWP(I)/OBGN335 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing I including SBA module (Practical) | 280 | 04 |

Course Learning Outcomes:

CLO01: Assist and perform specific investigations for antenatal mothers

CLO02: Perform per-vaginal examination for a woman in labour and conduct normal child birth

CLO03: Demonstrate skills in resuscitating the newborn and providing immediate care of newborn to build employability flare.

CLO04: Exhibit skills in postnatal and newborn assessment, and provide care for postnatal mothers and their newborn

CLO05: Counsel the women on family planning, and provide necessary care to woman affected with gender based violence

Skill Lab: Procedures/Skills for demonstration and return demonstration

- Urine pregnancy test, Calculation of EDD
- Obstetrical score, gestational weeks
- Antenatal assessment
- Counseling antenatal mothers
- Micro birth planning
- PV examination
- Monitoring during first stage of labour – Plotting and interpretation of Partograph
- Preparation for delivery – setting up labour room, articles, equipment
- Mechanism of labour – normal
- Conduction of normal childbirth with essential newborn care
- Active management of third stage of labour
- Placental examination
- Newborn resuscitation
- Monitoring during fourth stage of labour
- Postnatal assessment
- Newborn assessment
- Kangaroo mother care
- Family planning counselling
- PPIUCD insertion and removal.

Clinical Posting

Antenatal OPD and Antenatal ward:

- History collection
- Physical examination
- Obstetric examination
- Pregnancy confirmation test
- Urine testing
- Blood testing for Haemoglobin, grouping & typing
- Blood test for malaria
- KICK chart
- USG/NST
- Antenatal counselling
- Preparation for childbirth
- Birth preparedness and complication readiness.

Labour room:

- Assessment of woman in labour
- Partograph
- Per vaginal examination when indicated
- Care during first stage of labour
- Pain management techniques
- Upright and alternative positions in labour
- Preparation for labour – articles, physical, psychological
- Conduction of normal childbirth
- Essential newborn care
- Newborn resuscitation
- Active management of third stage of labour
- Monitoring and care during fourth stage of labour

Post- partum clinic and Postnatal Ward including FP unit:

- Postnatal assessment
- Care of postnatal mothers – normal
- Care of normal newborn
- Lactation management
- Postnatal counselling
- Health teaching on postnatal and newborn care
- Family welfare counselling.

Note: Partial Completion of SBA module during VI semester.

Reference Books

1. Buckley Kathleen and Kulb Nancy W, *High Risk Maternity Nursing Manual*, Williams & Wilkin, 1993, Philadelphia.
2. Bennet V Ruth & Brown K Linda, *Myles Text Book for Midwives*, ELBS, Churchill Livingstone.
3. Calander, R & Miller A, *Obstetrics Illustrated*, Churchill & Livingstone, 1993, New York.
4. Dawn C.S, *Text Book of Obstetrics and Neonatology*, Dawn Books, Calcutta.

*** *Latest editions of all the suggested books are recommended.***

SEMESTER VII

| Course Code | Name of Course | Hours | Credits |
|------------------|-----------------------------|-------|---------|
| N-COMHL (II) 401 | Community Health Nursing II | 100 | 05 |

Course Learning Outcomes:

CO01: Demonstrate skills relevant to providing comprehensive care primary care/ community based care to clients with common physical disorders, mental disorders, and in providing appropriate referral services

CO02: Identify occupational hazards, occupational diseases and role of nurse in occupational health programs.

CO03: Provide maternal, newborn and child care, and reproductive health including adolescent care in rural and urban health care setting

CO04: Describe the leadership role in guiding, supervising, and monitoring the health services and the personnel at the PHCs, SCs and community level including financial management and maintenance of records and reports.

CO05: Describe the roles and responsibilities of Mid-Level Health Care Providers (MHCPs) in Health Wellness Centers

Course Contents

Unit I: Management of common conditions and emergencies including first aid:

- Standing orders: Definition uses,

Screening, diagnosing/ identification, primary care and referral of Gastrointestinal System:

- Abdominal pain
- Nausea and vomiting
- Diarrhea
- Constipation
- Jaundice
- GI bleeding
- Abdominal distension
- Dysphagia and dyspepsia
- Aphthous ulcers

Respiratory System:

- Acute upper respiratory infections – Rhinitis, Sinusitis, Pharyngitis, Laryngitis, Tonsillitis
- Acute lower respiratory infections – Bronchitis, pneumonia and bronchial asthma
- Hemoptysis, Acute chest pain.

Heart & Blood:

- Common heart diseases – Heart attack/coronary artery disease, heart failure, arrhythmia
- Blood anemia, blood cancers, bleeding disorders.

Eye & ENT conditions:

- Eye – local infections, redness of eye, conjunctivitis, stye, trachoma and refractive errors
- ENT – Epistaxis, ASOM, sore throat, deafness

Urinary System:

- Urinary tract infections – cystitis, pyelonephritis, prostatitis
- UTIs in children.

First aid in common emergency conditions– Review:

- High fever, low blood sugar, minor injuries, fractures, fainting, bleeding, shock, stroke, bites, burns, choking, seizures, RTAs, poisoning, drowning and foreign bodies

Reproductive, maternal, newborn, child and adolescent Health (Review from OBG Nursing and application in community setting):

- Present situation of reproductive, maternal and child health in India

Antenatal care:

- Objectives, antenatal visits and examination, nutrition during pregnancy, counseling
- Calcium and iron supplementation in pregnancy
- Antenatal care at health centre level
- Birth preparedness
 - High risk approach – Screening/early identification and primary management of complications – Antepartum hemorrhage, pre-eclampsia, eclampsia, Anemia, Gestational diabetes mellitus, Hypothyroidism, Syphilis
 - Referral, follow up and maintenance of records and reports.

Intra natal care:

- Normal labour – process, onset, stages of labour
- Monitoring and active management of different stages of labour
- Care of women after labour

- Early identification, primary management, referral and follow up – preterm labour, fetal distress, prolonged and obstructed labour, vaginal & perineal tears, ruptured uterus
- Care of newborn immediately after birth
- Maintenance of records and reports
- Use of Safe child birth check list
- SBA module – Review
- Organization of labour room.

Postpartum care:

- Objectives, Postnatal visits, care of mother and baby, breast feeding, diet during lactation, and health counseling
- Early identification, primary management, referral and follow up of complications
- Danger signs-postpartum hemorrhage, shock, puerperal sepsis, breast conditions, post-partum depression
- Postpartum visit by health care provider

Newborn and child care:

- Review: Essential newborn care
- Management of common neonatal problems
- Management of common child health problems: Pneumonia, Diarrhoea, Sepsis, screening for congenital anomalies and referral
- Review: IMNCI Module
- Under five clinics

Adolescent Health:

- Common health problems and risk factors in adolescent girls and boys
- Common Gynecological conditions – dysmenorrhoea, Premenstrual Syndrome (PMS), Vaginal discharge, Mastitis, Breast lump, pelvic pain, pelvic organ prolapsed
- Teenage pregnancy, awareness about legal age of marriage, nutritional status of adolescents National Menstrual Hygiene scheme
- Youth friendly services: SRH Service needs, Role and attitude of nurses: Privacy, confidentiality, non-judgemental attitude, client autonomy, respectful care and communication
- Counselling for parents and teenagers (BCS- balanced counselling strategy)

National Programs:

- RMNCH+A Approach – Aims, Health systems strengthening, RMNCH+A strategies, Interventions across life stages, program management, monitoring and evaluation systems
- Universal Immunization Program (UIP) as per Government of India guidelines – Review

- Rashtriya Bal Swasthya Karyakaram (RSBK) –children
- Rashtriya Kishor Swasthya Karyakram (RKSK) – adolscents

Any other new programs

Unit III: Demography, Surveillance and Interpretation of Data:

- Demography and vital statistics – demographic cycle, world population trends, vital statistics
- Sex ratio and child sex ratio, trends of sex ratio in India, the causes and social implications
- Sources of vital statistics – Census, registration of vital events, sample registration system
- Morbidity and mortality indicators – Definition, calculation and interpretation
- Surveillance, Integrated disease surveillance project (IDSP), Organization of IDSP, flow of information and mother and child tracking system (MCTS) in India
- Collection, analysis, interpretation, use of data
- Review: Common sampling techniques – random and non-random techniques
- Disaggregation of data.

Unit IV: Population and its control:

- Population Explosion and its impact on Social
- Economic development of individual, society and country
- Population Control – Women Empowerment; Social, Economic and Educational Development
- Limiting Family Size – Promotion of small family norm
- Temporary Spacing Methods (natural, biological, chemical, mechanical methods etc.)
- Terminal Methods (Tubectomy, Vasectomy)
- Emergency Contraception
- Counseling in reproductive, sexual health including problems of adolescents
- Medical Termination of pregnancy and MTP Act
- National Population Stabilization Fund/JSK (Jansankhya Sthirata Kosh)
- Family planning 2020
- National Family Welfare Program
- Role of a nurse in Family Welfare Program

Unit V: Occupational Health:

- Occupational health hazards
- Occupational diseases
- ESI Act
- National/ State Occupational Health Programs
- Role of a nurse in occupational health services – Screening, diagnosing, management and referral of clients with occupational health problems.

Unit VI: Geriatric Health Care:

- Health problems of older adults
- Management of common geriatric ailments: counseling, supportive treatment of older adults
- Organization of geriatric health services
- National program for health care of elderly (NPHCE)
- State level programs/Schemes for older adults
- Role of a community health nurse in geriatric health services –
 - Screening
 - Diagnosing
 - Management and referral of older adults with health problems.

Unit VII: Mental Health Disorders:

- Screening, management, prevention and referral for mental health disorders
- Review: Depression, anxiety, acute psychosis, Schizophrenia, Dementia, Suicide, Alcohol and substance abuse
- Drug de-addiction program
- National Mental Health Program
- National Mental Health Policy
- National Mental Health Act
- Role of a community health nurse in screening, initiation of treatment and follow up of mentally ill clients.

Unit VIII: Health Management Information System (HMIS):

- Introduction to health management system: data elements, recording and reporting formats, data quality issues
- *Review:* Basic Demography and vital statistics, Sources of vital statistics
- Common sampling techniques, frequency distribution, Collection, analysis, interpretation of data
- Analysis of data for community needs assessment and preparation of health action plan.

Unit IX: Management of delivery of community health services:

- Planning, budgeting and material management of CHC, PHC, SC/HWC
- Manpower planning as per IPHS standards
- Rural: Organization, staffing and material management of rural health services provided by Government at village, SC/HWC, PHC, CHC, hospitals – district, state and central
- Urban: Organization, staffing, and functions of urban health services provided by Government at slums, dispensaries, special clinics, municipal and corporate hospitals
- Defense services

- Institutional services
- Other systems of medicine and health: Indian system of medicine, AYUSH clinics, Alternative health care system referral systems, Indigenous health services.

Unit X: Leadership, Supervision and Monitoring:

- Understanding work responsibilities/job description of DPHN, Health Visitor, PHN, MPH/W (Female), Multipurpose health Worker (Male), AWWs and ASHA
- Roles and responsibilities of Mid-Level Health Care Providers (MLHPs)
- Village Health responsibilities
- Health team management
- Sanitation and Nutrition Committees (VHSNC): objectives, composition and roles &
- *Review:* Leadership & supervision – concepts, principles & methods
- Leadership in health: leadership approaches in healthcare setting, taking control of health of community and organizing health camps, village clinics
- Training, Supportive supervision and monitoring – concepts, principles and process e.g. performance of frontline health workers.

Financial Management and Accounting & Computing at Health Centers (SC):

- Activities for which funds are received
- Accounting and book keeping requirements– accounting principles & policies, book of accounts to be maintained, basic accounting entries, accounting process, payments & expenditure, fixed asset, SOE reporting format, utilization certificate (UC) reporting
- Preparing a budget
- Audit.

Records & Reports:

- Concepts of records and reports – importance, legal implications, purposes, use of records, principles of record writing, filing of records
- Types of records – community related records, registers, guidelines for maintaining
- Report writing – purposes, documentation of activities, types of reports
- Medical Records Department – functions, filing and retention of medical records
- Electronic Medical Records (EMR) – capabilities and components of EMR, electronic health record (EHR), levels of automation, attributes, benefits and disadvantages of HER
- Nurses' responsibility in record keeping and reporting.

Unit XI: Disaster Management:

- Disaster types and magnitude
- Disaster preparedness
- Emergency preparedness
- Common problems during disasters and methods to overcome
- Basic disaster supplies kit

- Disaster response including emergency relief measures and Life saving techniques
- Use disaster management module.

Unit XII: Bio-Medical Waste Management:

- Waste collection, segregation, transportation and management in the community
- Waste management in health center/clinics
- Bio-medical waste management guidelines – 2016, 2018 (Review).

Unit XIII: Health Agencies:

- **International:** WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, European Commission, Red Cross, USAID, UNESCO, ILO, CAR, CIDA, JHPIEGO, any other
- **National:** Indian Red Cross, Indian Council for Child Welfare, Family Planning Association of India, Tuberculosis Association of India, Central Social Welfare Board, All India Women's Conference, Blind Association of India, any other
- **Voluntary Health Association of India (VHA).**

Reference Books

1. Clark, June & Jill Handerson, Community Health, Churchill Livingstone, 1993, New York.
2. Freeman B. Ruth, Public Health Practices, W. W. Saunders CO., 1990, Philadelphia.
3. Fromer Joan Margot, Community Health Care and the Nursing Process, C.V Mosby CO., Toronto.
4. Park J. E, Text Book of Preventive and Social Medicine, Ms Banarsidas Bhanot CO., Jabalpur.
5. Rao S. Kasthi, An Introduction to Community Health Nursing, B. I. Publishers, Madras.
6. Stan hope & Lancaster Janette, Community Health Process and Practice for Promoting Health, C.V Mosby & CO. London.
7. Werner David, Where There is no Doctor: A Village Heath Care Hand Book, The Herperian Foundation, California.

** Latest editions of all the suggested books are recommended.*

| Course Code | Name of Course | Hours | Credits |
|----------------|---|-------|---------|
| N-COMHP(II)401 | Community Health Nursing II (Practical) | 160 | 02 |

Course Learning Outcomes:

CLO01: Screen, diagnose, manage and refer clients with common physical and mental health conditions/ emergencies and occupational health problems.

CLO02: Exhibit competencies in assess and providing antenatal, intrapartum, postnatal and new- born care

CLO03: Demonstrate skills in proper bio-medical waste management as per protocol.

CLO04: Participate in community diagnosis-data management and health centre activities

CLO05: Organize and conduct clinics/health camps in the community to build entrepreneurial spirit.

Clinical Posting

Urban & Rural:

- Screening, diagnosing, management and referral of clients with common conditions/ emergencies
- Assessment (physical & nutritional) of antenatal, Intrapartum, postnatal and newborn
- Conduction of normal delivery at health center
- Newborn care
- Counsel adolescents
- Family Planning counseling
- Distribution of temporary contraceptives- condoms, OCP's, emergency contraceptives
- Screening, diagnosing, management and referral of clients with occupational health problems
- Health assessment of elderly
- Mental health screening
- Participation in Community diagnosis – data management
- Writing health center activity report
- Organizing and conducting clinics/camp
- Participation in disaster mock drills

Reference Books

1. Clark, June & Jill Handerson, Community Health, Churchill Livingstone, 1993, New York.
2. Freeman B. Ruth, Public Health Practices, W. W. Saunders CO., 1990, Philadelphia.
3. Fromer Joan Margot, Community Health Care and the Nursing Process, C.V Mosby CO.,
Toronto.

**** Latest editions of all the suggested books are recommended.***

| Course Code | Name of Course | Hours | Credits |
|-------------|-------------------------------|-------|---------|
| NRST 405 | Nursing Research & Statistics | 120 | 04 |

Course Learning Outcomes:

CLO01: Identify research priority areas

CLO02: Applying the knowledge of research process through identification of research problem, literature review, designing the research study, collecting the data and analysing the data and presenting the data.

CLO03: Conduct the research projects in groups to inculcate entrepreneurial spirit.

CLO04: Analyze and interpret the given data

CLO05: Develop knowledge and skills in communication of research findings to nursing fraternity.

Course outline

Unit I: Research and Research Process:

- Introduction and need for nursing research
- Definition of Research & nursing research
- Steps of scientific method
- Characteristics of good research
- Steps of Research Projects– overview
- Evidence Based Practice – Concept, Meaning, Purposes, Steps of EBP Process and Barriers.

Unit II: Research Problem/Question:

- Identification of problem area
- Problem statement
- Criteria of a good research problem
- Writing objectives and hypotheses.

Unit III: Review of Literature:

- Location
- Sources
- On line search; CINHAL, COCHRANE etc.
- Purposes
- Method of review
-

Unit IV: Research Approaches and Designs:

- Historical, survey and experimental
- Qualitative and Quantitative designs.

Unit V: Sampling and data Collection:

- Definition of Population
- Sample: Sampling criteria, factors influencing sampling process, types of sampling techniques
- Data – why, what, from whom, when and where to collect
- Data collection methods and instruments- Methods of data collection
- Questioning, interviewing, Observations, record analysis and measurement
- Types of instruments
- Validity & Reliability of the Instrument
- Research ethics
- Pilot study
- Data collection procedure

Unit VI: Analysis of data:

- Compilation, Tabulation, classification, summarization, presentation, interpretation of data.

Unit VII: Introduction to Statistics:

- Definition, use of statistics, scales of measurement
- Frequency distribution and graphical presentation of data
- Mean, Median, Mode, Standard deviation
- Normal Probability and tests of significance
- Co-efficient of correlation
- Statistical packages and its application.

Unit VIII: Communication and utilization of Research:

- Communication of research findings
- Verbal report, writing research report
- Writing scientific article/paper
- Critical review of published research including publication ethics
- Utilization of research findings
- Conducting group research project

Reference Books

1. Basavanthappa, B.T, *Nursing Research*, Jaypee Brothers, 2003, New Delhi.
2. Mahajan, B.K, *Methods in Biostatistics*, Jaypee Brothers, 1999, New Delhi.
3. Rose Hott & Budin. Notter's, *Essentials of Nursing Research*, Spinger Publisher, 1999, New York.
4. Patricial Nunhall. *Nursing Research*, James & Bar, 2001, Canada.

*** Latest editions of all the suggested books are recommended**

| Course Code | Name of Course | Hours | Credits |
|----------------------|---|-------|---------|
| N-MIDWL(II)/OBGN 410 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing II including safe deliver app module | 60 | 03 |

Course Learning Outcomes:

CLO01: Describe the assessment, initial management, referral and respectful maternity care of women with high risk pregnancy, high risk labour and abnormal postnatal conditions.

CLO02: Describe the assessment and management of women with gynecological disorders.

CLO03: Identify and demonstrate skills in providing care to normal newborn and high risk neonates.

CLO04: Identify and showcase skills manage high risk pregnancy, abnormal labor and puerperium including appropriate referrals.

CLO05: Elaborate indication, dosage, action, side effects and nursing responsibility in administrating drugs for mothers.

CLO06: Apply knowledge and demonstrate skills in providing youth friendly health services and care for women affected by gender based violence to develop employability skills.

Course Outline

Unit I: Recognition and Management of problems during Pregnancy:

- Assessment of high-risk pregnancy.

Problems/Complications of Pregnancy:

- Hyper-emesis gravidarum
- Bleeding in early pregnancy – abortion, ectopic pregnancy, vesicular mole
- Unintended or mistimed pregnancy
- Post abortion care & counseling
- Bleeding in late pregnancy placenta previa, abruption placenta, trauma
- Medical conditions complicating pregnancy – Anemia, PIH/Pre- eclampsia, Eclampsia, GDM, cardiac disease, pulmonary disease, thyrotoxicosis, STDs, HIV, Rh incompatibility
- Infections in pregnancy – urinary tract infection, bacterial, viral, protozoal, fungal, malaria in pregnancy
- Surgical conditions complicating pregnancy – appendicitis, acute abdomen
- COVID-19 & pregnancy and children

- Hydramnios
- Multiple pregnancy
- Abnormalities of placenta and cord
- Intra uterine growth restriction
- Intra uterine fetal death
- Gynaecological conditions complicating pregnancy
- Mental health issues during pregnancy
- Adolescent pregnancy
- Elderly primi, grand multiparity
- Management and care of conditions as per the GoI protocol
- Policy for the referral services
- Drugs used in management of high-risk pregnancies
- Maintenance of records and reports

Unit II: Recognition and management of abnormal labour:

- Preterm labour – Prevention and management of preterm labour; (Use of antenatal corticosteroids in preterm labour)
- Premature rupture of membranes
- Malposition's and abnormal presentations (posterior position, breech, brow, face, shoulder)
- Contracted Pelvis, Cephalo Pelvic Disproportion (CPD)
- Disorders of uterine action – Prolonged labour, Precipitate labour, Dysfunctional labour, Complications of third stage – Retained placenta, Injuries to birth canal, Postpartum hemorrhage (bimanual compression of the uterus, aortic compression, uterine balloon tamponade)
- Obstetric emergencies – Foetal distress, Ruptured uterus, Cord prolapse, Shoulder dystocia, Uterine inversion, Vasa previa, Obstetrical shock, Amniotic fluid embolism
- Episiotomy and suturing
- Obstetric procedures – Forceps delivery, Vacuum delivery, Version
- Induction of labour – Medical & surgical
- Caesarean section – indications and preparation
- Nursing management of women undergoing
- Obstetric operations and procedures
- Drugs used in management of abnormal labour
- Anesthesia and analgesia in obstetrics.

Unit III: Recognition and Management of postnatal problems:

- Physical examination, identification of deviation from normal
- Puerperal complications and its management-
 - Puerperal pyrexia
 - Puerperal sepsis
 - Urinary complications
 - Secondary Postpartum hemorrhage
 - Vulval hematoma
 - Breast engorgement including mastitis/breast abscess, feeding problem
 - Thrombophlebitis
 - DVT
 - Uterine sub involution
 - Vesico vaginal fistula (VVF)
 - Recto vaginal fistula (RVF)
 - Postpartum depression/psychosis
 - Drugs used in abnormal puerperium,
- Policy about referral.

Unit IV: Assessment and management of High- risk newborn (Review):

- Models of newborn care in India – NBCC; SNCUs
- Screening of high-risk newborn
- Protocols, levels of neonatal care, infection control
- Prematurity, Post-maturity
- Low birth weight
- Kangaroo Mother Care
- Birth asphyxia/Hypoxic encephalopathy
- Neonatal sepsis
- Hypothermia
- Respiratory distress
- Jaundice
- Neonatal infections
- High fever
- Convulsions
- Neonatal tetanus
- Congenital anomalies
- Baby of HIV positive mothers
- Baby of Rh negative mothers
- Birth injuries

- SIDS (Sudden Infant Death Syndrome) prevention
- Compassionate care
- Calculation of fluid requirements
- EBM/formula feeds/tube feeding
- Home based newborn care program - community facility integration in newborn care
- Decision making about management and referral
- Bereavement counseling
- Drugs used for high risk newborns
- Maintenance of records and reports.

Unit V: Assessment and management of women with gynecological disorders:

- Gynecological assessment – History and Physical assessment
- Breast Self-Examination
- Congenital abnormalities of female reproductive system
- Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and management of women with-
 - Menstrual abnormalities
 - Abnormal uterine bleed
 - Pelvic inflammatory disease
 - Infections of the reproductive tract
 - Uterine displacement
 - Endometriosis
 - Uterine and cervical fibroids and polyps
 - Tumors – uterine, cervical, ovarian, vaginal, vulval
 - Cysts – ovarian, vulval, Cystocele, urethrocele, rectocele
 - Genitor-urinary fistulas
 - Breast disorders – infections, deformities, cysts, tumors
 - HPV vaccination
 - Disorders of Puberty and menopause
 - Hormonal replacement therapy.
- **Assessment and management of couples with infertility-**
 - **Infertility** – definition, causes
 - Counseling the infertile couple
 - Investigations – male and female
 - Artificial reproductive technology
 - Surrogacy, sperm and ovum donation, cryopreservation
 - Adoption – counseling, procedures
 - Injuries and Trauma; Sexual violence
 - Drugs used in treatment of gynaecological disorders.

Note: Complete safe delivery app during VII Semester

Reference Books

1. Buckley Kathleen and Kulb Nancy W, *High Risk Maternity Nursing Manual*, Williams & Wilkin, 1993, Philadelphia.
2. Bennet V Ruth & Brown K Linda, *Myles Text Book for Midwives*, ELBS, Churchill Livingstone.
3. Calander, R & Miller A, *Obstetrics Illustrated*, Churchill & Livingstone, 1993, New York.
4. Dawn C.S, *Text Book of Obstetrics and Neonatology*, Dawn Books, Calcutta.
5. Dawn C.S, *Text Book of Gynecology and Contraception*, Dawn Books, Calcutta.
6. Dutta D.C, *Text Book of Obstetrics*, New Central Agency, Calcutta.
7. Dutta D.C, *Text Book of Gynaecology*, New Central Agency, Calcutta.
8. Daftary Shrish, *Holland and Brews Manual of Obstetrics*, B Churchill Livingstone Ltd, New Delhi.

*** Latest editions of all the suggested books are recommended.**

| Course Code | Name of Course | Hours | Credits |
|----------------------|--|-------|---------|
| N-MIDWP(II)/OBGNL410 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing II (Practical) | 360 | 05 |

Course Learning Outcomes:

CLO01: Perform antenatal assessment and care to pregnant women with normal and high-risk pregnancy

CLO02: Conduct Normal Vaginal delivery independently and assist in conducting caesarean section

CLO03: Perform assessment and care of postnatal mother and identify postnatal complications

CLO04: Provide nursing care to newborn and provide the counselling to the couple regarding family planning methods

CLO05: Assist in gynecological and obstetric surgeries and provide care to women with gynecological disorders

CLO06: Demonstrate competencies/ skills in providing respectful and evidence based maternity care for women during antenatal, intranatal and postnatal period

Skill Lab: Procedures/Skills for demonstration and return demonstration:

- Urine pregnancy test
- Calculation of EDD, Obstetrical score, gestational weeks
- Antenatal assessment
- Counseling antenatal mothers
- Micro birth planning
- PV examination
- Monitoring during first stage of labour – Plotting and interpretation of partograph
- Preparation for delivery – setting up labour room, articles, equipment
- Mechanism of labour – normal
- Conduction of normal childbirth with essential newborn care
- Active management of third stage of labour
- Placental examination
- Newborn resuscitation
- Monitoring during fourth stage of labour
- Postnatal assessment
- Newborn assessment

- Kangaroo mother care
- Family planning counseling
- PPIUCD insertion and removal

Clinical Posting

Antenatal OPD and Antenatal ward

- History collection
- Physical examination
- Obstetric examination
- Pregnancy confirmation test
- Urine testing
- Blood testing for Hemoglobin, grouping & typing
- Blood test for malaria
- KICK chart
- USG/NST
- Antenatal counseling
- Preparation for childbirth
- Birth preparedness and complication readiness

Labour room

- Assessment of woman in labour
- Partograph
- Per vaginal examination when indicated
- Care during first stage of labour
- Pain management techniques
- Upright and alternative positions in labour
- Preparation for labour – articles, physical, psychological
- Conduction of normal childbirth
- Essential newborn care
- Newborn resuscitation
- Active management of third stage of labour
- Monitoring and care during fourth stage of labour

Post- partum clinic and Postnatal Ward including FP unit

- Postnatal assessment
- Care of postnatal mothers – normal
- Care of normal newborn
- Lactation management
- Postnatal counseling

- Health teaching on postnatal and newborn care
- Family welfare counseling

Reference Books

1. Buckley Kathleen and Kulb Nancy W, *High Risk Maternity Nursing Manual*, Williams & Wilkin, 1993, Philadelphia.
2. Bennet V Ruth & Brown K Linda, *Myles Text Book for Midwives*, ELBS, Churchill Livingstone.
3. Calander, R & Miller A, *Obstetrics Illustrated*, Churchill & Livingstone, 1993, New York.
4. Dawn C.S, *Text Book of Obstetrics and Neonatology*, Dawn Books, Calcutta.

** Latest editions of all the suggested books are recommended.*

SEMESTER VIII

| Course Code | Name of Course | Hours | Credits |
|--|---|-------------|-----------|
| INTE415 INTE420 INTE425 INTE430 INTE435 | Internship (Integrated Practice) <ul style="list-style-type: none"> • Community Health Nursing • Adult Health Nursing • Child Health Nursing • Mental Health Nursing • Midwifery/ OBG Nursing | 1056 | 12 |

Course learning outcomes:

CLO01: Provide holistic need based independent nursing care based on identified priority needs of the clients.

CLO02: Apply problem solving approach to resolve the problems of client and able to take responsibility in the management of patient care to inculcate managerial skills.

CLO03: Engaged in the need-based research to improve patient quality and contribute to professional advancement

CLO04: Collaborate with the health team members in the need-based research for the improvement of Quality care.

CLO05: Participate in national health program to hone skills as a community health nurse

Community Health Nursing: 192 Hours

Course Content

Train and supervise Health workers. Provide family welfare services. Collaborate with health and allied agencies. Roles and responsibilities of mid-level health care providers (MLHP), New national health programmes, AYUSHMAN BHARAT – the up gradation of sub-centres into of health and wellness centres, concept of comprehensive primary health care and key elements of CPHC, service delivery and continuum of care and roles of midlevel health care providers (MLHP) diagnosis and treatment skills essential at sub-centre level using standard treatment protocols as per national health programmes, Introduction to Rashtriya Bal Suraksha Karyakram (RBSK), Social mobilization skills, Drug dispensing., Program management including supervision and monitoring, Investigation of an outbreak, Behaviour change communication and soft skills, Integrity disease surveillance project (IDSP), Mother and child tracking system (MCTS), Chikungunya, Organization of labour room, Safe child birth checklist, Postpartum visit by health worker, Family planning by 2020, National mental programme, Food borne diseases

Topics to be reviewed: Health planning and health care delivery system in India (IPHS guidelines), Health management information system (HMIS), Electronic medical record (EMS), Micro-birth planning, Adolescent counselling, Resources of vital statistics, Financial management, accounts and computing at sub centre, Mental health act, drug de addiction programmes, Time trends and disease occurrence in epidemiology, Infant and young child feeding and counselling, Nutrition across life cycle and update on national nutrition programmes, Use of equipment, Throat problems and febrile seizures in children, Transport of baby and common accidents and mishaps in labor room, Counselling- GATHER Approach, Update biomedical waste management by specifying biomedical management rules, Suturing of superficial wound, Postpartum intrauterine contraceptive device (PPIUCD), All the national health programmes on communicable and non- communicable.

Recommended Books

1. Basvanthapa B.T. (2015). Community Health Nursing. New Delhi, India: Jaypee Brothers Medical Publishers.
2. Cement I. (2012). Manual of Community Health Nursing. (2nd ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Kaur B. (2012). Community Health Nursing Procedures. New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). Clinical Nursing Procedures Pgimer National Institute of Nursing Education. (1st ed.). Chennai, India: CBS Publishers.
5. Ray K. S. (2017). Community Nursing Procedure Manual. Chennai, India: CBS Publishers.

Adult Health Nursing: 288 Hours

Course Content

Posting in medical ward, surgical ward, ICU/CCU, emergency, operation theatre (eye, ENT, neuro) to provide comprehensive care to the patients with various medical & surgical conditions and performing various procedures such as taking history, perform general and specific physical examination, identify alterations and deviations, practice medical surgical asepsis-standard safety measures, administer medications, oral, IV, IM, subcutaneous, iv therapy, IV cannulation, maintenance and monitoring, oxygen therapy by different methods, nebulization, chest physio therapy, naso-gastric feeding, assist in common diagnostic, perform /assist in the therapeutic procedures, blood and component therapy throat suctioning, collect specimens for common investigations, maintain elimination, catheterization, bowel wash, enema, urinary, maintain intake, output, and documentation counsel and teach related to specific disease conditions etc. Operation theatre: scrubbing, gowning, gloving, identify instruments, suturing materials for common operations, disinfection, carbonization, fumigation, preparation of instrument sets for common operations, sterilization of sharps and other instruments, prepare the OT table depending upon the operation, positioning and monitoring of patients, endotracheal intubation,

assisting in minor and major operations, handing specimens, disposal of waste as per the guidelines.

Recommended Books

1. Chitnamani. & Mani M. (2018). Lewis's Medical-Surgical Nursing Assessment and Management of Clinical Problems. (3rd ed.). New Delhi, India: Elsevier.
2. Sharma K. S., Madhani S. (2017). Brunner & Suddarth's Textbook of MSN. (2nd Vol.). Neitherland: Wolter Kluwer.
3. Basavanthappa B. T. (2015) Medical Surgical Nursing. (2nd ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). Clinical Nursing Procedures Pgimer National Institute of Nursing Education. (1st ed.). Chennai, India: CBS Publishers.
5. Hoffman & Sullivan (2016). Davis Advantage for Medical Surgical Nursing: Making Connections to Practice. Philadelphia, United states: F.A. Davis Company.

Child Health Nursing: 192 Hrs

Course Content

Posting in paediatric medical ward/ICU, paediatric surgical ward/ICU, NICU to provide comprehensive care to children/neonates with medical conditions and surgical conditions: taking paediatric history, physical examination and assessment of children, administer of oral, IM & IV medicine/fluid, calculation of fluid requirements, prepare different strength of intravenous fluid fluids, apply restraints, administer O₂ inhalation by different methods, give baby bath, feed children by katori, spoon etc, collect specimens for common investigations, assist with common diagnostic procedures, teach mothers/parents: malnutrition, oral rehydration therapy, feeding & weaning, immunization schedule, play therapy, specific disease conditions, bowel wash, care for ostomy:colostomy irrigation, ureterostomy, gastrostomy, enterostomy, urinary catheterization and drainage, feeding:naso-gastric, jejunostomy, care of surgical wounds:dressing, suture removal, care of a baby incubator/warmer, care of a child on ventilator, endo tracheal suction, chest physiotherapy, administer fluids with infusion pump, total parenteral nutrition, phototherapy, monitoring of babies, cardiopulmonary resuscitation.

Recommended Books

1. Padmaja A. (2014). Pediatric Nursing Procedure Manual. (1st ed.). New Delhi, India: Jaypee Publisher.
2. Kalia R. (2014). Pediatric Nursing Procedure. (1st ed.). New Delhi, India: Jaypee Publisher.
3. Singh M. (2015). Drug Dosages in Children. (1st ed.). New Delhi, India: CBS Publishers.
4. Singh M. (2017). Pediatric - Clinical Methods. (8th ed.). New Delhi, India: CBS Publishers.
5. Chheda M. K. (2019). Practical Aspects of Paediatrics. (8th ed.). New Delhi, India: CBS Publishers.

Mental Health Nursing: 192 Hours

Course Content

Posting in psychiatric wards to provide comprehensive care to the patients with mental health problems: history taking, performs mental status examination, assist in psychometric assessment, perform neurological examination, observe and assist in therapies, teach patients and family members, record therapeutic communication, administer medications, assist in electroconvulsive therapy, participate in all therapies, prepare patients for activities of daily living, conduct admission and discharge counselling, counsel and teach patients and families.

Recommended Books

1. Townsend C. M. & Morgan I. K. (2017). Psychiatric Mental Health Nursing Concepts of Care in Evidence-Based Practice. (9th ed.). Philadelphia, United states: F.A. Davis Company.
2. Shives R. L. (2008). Basic Concepts of Psychiatric: Mental Health Nursing. Philadelphia, United states: Lippincott Williams & Wilkins.
3. Sreevani R. (2004). A guide to Mental Health Psychiatric NURSING. (4th). New Delhi, India: Jaypee Publisher.
4. Baputty S., Sethi S. & Hitam S. (2014). Mental Health Nursing. (1st ed.). Oxford, United Kingdom: Oxford University Press.
5. Ghai S. (2019). Clinical Nursing Procedures Pgimer National Institute of Nursing Education. (1sted.). Chennai, India: CBS Publishers.

Midwifery/OBG Nursing: 192 Hours

Course Content

Posting in labour room, NICU, antenatal to provide comprehensive care to mother and neonates, completion of case book recordings. ANTENATAL CLINIC/OPD- physical examination, recording of weight & blood pressure, Hb, & urine testing for sugar and albumin, examination- abdomen and breast, immunization, assessment of risk status, teaching antenatal mothers, maintenance of antenatal records, LABOUR ROOM OT- Assessment of women in labor, per vaginal examinations and interpretation, monitoring and caring of woman in labor, maintenance of partograph, conduct normal delivery, newborn assessment and immediate care, resuscitation of newborns, assessment of risk status of newborn, episiotomy and suturing, maintenance of labor and birth records, arrange for and assist with caesarean section and care for woman & baby during caesarean, arrange for and assist with mtp and other surgical procedures, POST NATAL WARD: Examination and assessment of mother and baby, identification of deviations, care of postnatal mother and baby, perineal management, breast feeding, baby bath, immunization, teaching postnatal mother: mother craft, post -natal care & exercises, immunization, NEW BORN NURSERY- Newborn assessment, assessment of neonates, feeding of high-risk neonates, katori spoon, paladin, tube feeding, total parenteral nutrition, thermal management of neonates- kangaroo mother care, care of baby in incubator, monitoring and care of neonates, administering medications, intravenous therapy, assisting with diagnostic procedure, assisting with exchange

transfusion, care of baby on ventilator, phototherapy, infection control protocols in the nursery, teaching and counselling of parents, maintenance of neonatal records,

Recommended Books

- 1.Konar H. (2015). Dc Dutta textbook of Obstetrics. (8th ed.). New Delhi, India: Jaypee Publisher.
2. Jacob A. (2019). A Comprehensive Textbook of Midwifery and Gynecological Nursing. (5th ed.). New Delhi, India: Jaypee Publisher.
3. Sharma J.B.(2015). Midwifery and Gynaecology Nursing. (1st ed.). KalaAmb, India: Avichal Publishing Company publishers.
4. Balakrishna. Shela. (2016). Textbook of Obstetrics. (2nd ed.). Delhi, India:Paras Publishing.
5. Kumar S. (2018). Shaw's Textbook of Gynacology. (17th ed.). New Delhi, India: Elsevier Publishers.

| Course Code | Name of Course | Hours | Credits |
|-------------|--|-------|---------|
| LDP1418 | Leadership Development & Practice (CBCS) | 30 | 1 |

Course learning outcomes: Students will be able to:

CLO 1: Analyze the health problems and societal forces, health economics and politics in relation to corresponding national health policy and population policy.

CLO 2: Analyze the historical roots and current status of contemporary nursing science.

CLO 3: Explicate the paradigms of inquiry which influence the investigation of nursing phenomena.

CLO 4: Demonstrate skill in developing and testing conceptual models that will impact nursing science

CLO5: Describe the concept of nursing science, philosophy.

CLO 6: Correlate nursing science, nursing practice and nursing research.

Scope and objective of the course:

This course is designed to prepare the doctoral student to identify and utilize the nursing science and leadership roles as a basis for analyzing, developing and implementing national health policy and population policy and development of nursing profession. This course also enables the student to trace the historical development and current status of nursing science in the context of the philosophy and history of science and study of nursing as a scientific discipline. Further it is designed to facilitate the refinement of the critical skills necessary for analyzing and evaluating theoretical formulations, synthesizing theoretical components into conceptual models and developing testable hypotheses.

Course Content

Introduction to nursing science, study & history of philosophy- Concept of nursing science, philosophy and its history, history and philosophy of nursing science, nursing as a science discipline, Paradigms that influence approach to nursing science development- Development of Nursing knowledge, development of nursing as a science, epistemological and ontological assumptions in relation to the generation of nursing .knowledge, Epistemology, Nursing

knowledge and development- Epistemological and ontological assumptions of diverse approaches to knowledge generation in nursing., concept of epistemology, stages of theory development and evaluation of theories, classification and importance of theories and issues in theory development, Nursing Theories- Concept, classification and importance of theories and issues in theory development, nursing theorists and the associated nursing theories, the analysis and evaluation of various nursing theories, Inter relationships between science, theory, practice and research in nursing- The interrelatedness of nursing theories and nursing science, nursing practice and nursing research.

Recommended Books:

1. Maequis L. B. & Huston J. C. (2017). *Leadership Roles and Management Functions in Nursing: Theory and Application*. (9th ed.). Philadelphia, United states: Lippincott Williams & Wilkins.
2. Thappa P. (2013). *Leadership and Management for Nurses*. New Delhi, India: Jaypee Brothers Medical Publishers.
3. Whitehead k. D., Wiess A. S. & Tappen M. R. *Essentials of Nursing Leadership and Management*. (4th ed.). Philadelphia, United states: F.A. Davis Company.
4. Murray E. (2017). *Nursing Leadership and Management for Patient Safety and Quality Care*. Philadelphia, United states: F.A. Davis Company.
5. Grossman S. & Valiga M. T. (2018). *The New Leadership Challenge Creating the Future of Nursing*. (5th ed.). Philadelphia, United states: F.A. Davis Company.

| Course Code | Name of Course | Hours | Credits |
|-------------|--------------------------------------|-------|---------|
| ARM2419 | Advanced Research Methodology (CBCS) | 45 | 2 |

Course Learning Outcomes: After the completion of this course, the students will be able to:

CLO 1: Understand the terms and concepts of advanced research methodology

CLO 2: Applying the knowledge of the research process through identification of research problems, literature review, designing the research study, collecting the data and analysing the data and presenting the data

CLO 3: Conduct the research projects at national and international levels

CLO 4: Gain the skills for dissemination of knowledge through communication of research findings to the nursing fraternity

CLO 5: Apply inferential and descriptive statistics to the data set independently

Scope and objective of the course:

- This course is designed to enable students to develop and understand basic concepts of research, research process and statistics.
- It is further structured to conduct/participate in need based research studies in various settings and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting Individuals /group research projects.

Course Content

Fundamentals of Statistics- Introduction to basic statistics, Introduction to SPSS, Data view and variable review, ethical consideration in data collection, ethical guidelines for statistical practices, creating variables, SPSS commands (Popular 10 commands in SPSS), Distribution of Data and Hypotheses Testing – Frequency distribution, central tendency and distribution analysis, outlier testing, cross tabulation and chi square test, Test of difference – T test and Z test, One sample T test, Independent sample T test and paired sample T test. Parametric vs Non Parametric tests, test of normality, Z-Scores, sampling distribution, level of significance, P-value, Chi-Square test, Pearson’s Chi- Square statistic, Phi & Cramer’s V Statistic, Somer’s D, Odd Ratio, MC Nemar test, Bivariate Statistical Analysis (Parametric and Non-Parametric) -

Important Parametric Tests, Testing of the assumptions, Hypothesis Testing of Means, Hypothesis Testing for Differences between Means, Comparing Two Related Samples, Hypothesis Testing of Correlation Coefficients, Simple Regression Analysis, Multiple Correlation and Regression, Important Nonparametric or Distribution-free Test, Relationship between Spearman's r_s and Kendall's W , Multivariate Data Analysis -Exploratory factor analysis, confirmatory factor analysis, structural equation modeling, cluster analysis, research proposal formulation; ethical issues in preparing research proposal

Recommended Books:

1. Sharma S.K. (2014). *Nursing Research & Statistics*. (2nd ed.). New Delhi, India: Elsevier Publishers.
2. Polit D.F. & Beck C.T. (2017). *Nursing Research*. (10th ed.). Philadelphia, USA: Lippincott Williams & Wilkins Publishers.
3. Kothari C. R. (2014). *Research Methodology*. (2nd ed.). New Delhi, India: New age international publishers.
4. Kaur S. & Singh A. (2016). *Simplified Nursing Research and Statistics for undergraduates* (1st ed.). New Delhi, India: CBS Publishers.
5. Khanal A.B. (2016). *Mahajan's Methods in Biostatistics for Medical Students and research Workers*. (8th ed.). New Delhi, India: Jaypee Publishers.

Appendix A: Mapping of Program Outcomes with Course Outcomes

| Sem. | Course Code | Title of the Course | Course Outcomes | PROGRAMME OUTCOMES | | | | | | | | | | | | | |
|--------------------------|---------------------|--------------------------------------|---|--------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1 st Semester | ENGL 101 | Communicative English | CLO01: Identify the significance of Communicative English for health care professionals and apply the concepts and principles of English language in professional development to enhance the employability. | | | | | | | | | L | | | | | |
| | | | CLO02: Converse effectively, appropriately and timely within the given context and the individual or team they are communicating with either face to face or by other means. | | | | | | | | | | M | | | | |
| | | | CLO03: Read, interpret and comprehend content in text, flow sheet, figures, tables, report, anecdotes etc. | | | | | L | | | | L | | L | | | |
| | | | CLO04: Apply LSRW (Listening, Speaking, Reading and Writing) Skills in combination to learn, teach, educate and share information, ideas and results. | | | | | L | | | | | H | | | | |
| | | | CLO05: Enhance the expressions of writing skills | | | | | | | | | | M | M | | | |
| | ANAT 105 & PHYS 110 | Applied Anatomy & Applied Physiology | CLO01: Explain the general and microscopic structure of each system of the body | M | | | | | | | | | | | | | |
| | | | CLO02: Describe the anatomical structure, organization and functions of various organ systems of human body | L | | | | | | | | | | | | | |

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|--------------------------------|---|---|----------|----------|----------|--|----------|--|--|--|----------|----------|--|--|----------|
| | | CLO03: Identify relative anatomic positions of the major body organs and relative contribution of each organ system towards maintenance of homeostasis. | M | L | | | | | | | | | | | |
| | | CLO04: Develop understanding of normal and abnormal functioning of various organ systems of the body. | M | L | | | | | | | | | | | |
| | | CLO05: Apply knowledge of anatomic structures and physiological basis to analyze clinical situations and therapeutic applications to strengthen up employability | H | M | | | | | | | | | | | |
| SOCI 115 & PSYC 120 | Applied Sociology & Applied Psychology | CLO01: Develop understanding of social structure, culture, family, marriage and social stratification and social problems in India | | | L | | M | | | | | | | | |
| | | CLO02: Develop and apply knowledge of social organization and disorganization in reducing social problem. | L | L | | | L | | | | | | | | |
| | | CLO03: Integrate the knowledge of clinical sociology in the hospital and community to enhance employability skillset | M | M | | | | | | | | | | | |
| | | CLO04: Describe the concepts of psychology and cognitive processes and apply these concepts in health and nursing. | L | L | | | | | | | | | | | |
| | | CLO05: Demonstrate basic understanding of psychological assessment and nurse's role. | M | M | | | | | | | | L | | | |
| | | CLO06: Apply the knowledge of self-empowerment in workplace, society and personal life to build up employability | | | L | | | | | | M | | | | L |

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|-------------------------|---|--|---|---|--|---|---|---|---|---|---|--|--|--|--|
| Qu-N-NFL (I) 125 | Nursing Foundation I including First Aid module | CLO01: Develop understanding about the concept of health, illness and health care delivery system | L | L | | | | | | | | | | | |
| | | CLO02: Abide by the code of ethics and professional conduct | | | | H | L | M | | | | | | | |
| | | CLO03: Describe the principles and methods of effective communication in establishing communication links with patients, families and other health team members to strengthen employability | | | | | | | | L | | | | | |
| | | CLO04: Demonstrate competency in monitoring vital signs and following proper guidelines for recording, reporting and documentations. | M | M | | | | | | | M | | | | |
| | | CLO05: Demonstrate understanding about the basic nursing care, first aid, patient education and perform the nursing procedures using universal precautions. | M | M | | | | | | | M | | | | |
| | | CLO06: Apply the fundamental principles and techniques of infection control and biomedical waste management to hone clinical skills | | | | | H | | | | H | | | | |
| Qu-N-NFP(I) 125 | Nursing Foundation I including First Aid module (Practical) | CLO01: Maintain effective human relations while communicating with patient, families and team members. | | | | | L | | | M | | | | | |
| | | CLO02: Demonstrate skills in monitoring vital signs, implementing standard precautions and meeting the basic comfort needs of the patient. | | | | | | | M | | H | | | | |
| | | CLO03: Demonstrate skills in techniques of recording and reporting. | | | | M | | | | | M | | | | |
| | | CLO04: Exhibit skills in admission, discharge, and transfer of patient. | | | | | | M | | | M | | | | |

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| | | | CLO05: Perform skills in assessing and performing first aid, caring for patients with restricted mobility. | M | M | | | | | | | | L | | | | | | |
| 2nd Semester | BIOC 135 & NUTR 140 | Applied Biochemistry and Applied Nutrition & Dietetics | CLO01: Describe the metabolism of carbohydrates, proteins, lipids, haemoglobin and its clinical significance. | M | | | | | | | | | | | | | | | |
| | | | CLO02: Develop knowledge regarding various biochemical tests and their applications in disease conditions. | L | L | | | | | | | | | | | | | | |
| | | | CLO03: Describe the principle, essentials of nutrition & its relationship to health | M | H | | | | | | | | | | | | | | |
| | | | CLO04: Identify nutritional needs of different age groups and plan a balanced diet for them. | L | L | M | | L | | | | | | | | | | | |
| | | | CLO05: Describe the principles and practices of nutrition and dietetics and apply nutrient and dietary modifications in caring patients | L | M | | | L | | L | | | | | | | | | |
| | | | CLO 06: Prepare meals and therapeutic diets using different methods and cookery rules to hone the skills | M | H | | | M | | M | | | | | | | | | |
| | N-NFL(II) 125 | Nursing Foundation II including health assessment module | CLO01: Demonstrate fundamental skills of assessment, planning, implementation and evaluation of nursing care using nursing process approach in supervised clinical settings | H | H | | | | | | | | | M | | | | | |
| | | | CLO02: Assess the Nutritional needs, identify and meet the hygienic needs, elimination needs and provide relevant care under supervision. | M | H | | | | | | | | | | M | | | | |
| | | | CLO03: Apply the knowledge of the principles, routes, and effects of administration of medications and calculate | L | M | | | | M | | | | | | L | | | | |

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| | | | conversions of drugs and dosages | | | | | | | | | | | | | | | | | |
| | | | CLO04: Demonstrate knowledge and understanding in caring for patients with altered functioning of sense organs and unconsciousness and identify stressors and stress adaptation modes. | L | M | | | | L | | | | | | | | | | | |
| | | | CLO05: Explain the concepts relevant to models of health and illness with integration of the knowledge of culture and cultural differences in meeting the spiritual needs to build employability skillset. | L | L | | | M | | | | | | | | | | | | |
| 2 nd SEM | N-NFP (II) 125 | Nursing Foundation II including health assessment module (Practical) | CLO01: Perform health assessment and develop skills in assessment, planning, implementation and evaluation of nursing care using Nursing process approach. | M | H | | | | | | | | | | | | | | | |
| | | | CLO02: Implement basic nursing techniques in meeting hygienic needs, elimination needs and nutritional needs of patients. | L | H | | | | | | | | | | | | | | | |
| | | | CLO03: Develop skills in instructing and collecting samples and performing, analyzing and interpreting simple lab tests. | L | M | | | | | M | | | | | | | | | | |
| | | | CLO04: Assess, plan, implement & evaluate the basic care needs of patients with altered sensory functioning and Care for terminally ill and dying patients. | H | H | | | | | | | | | | M | | | | | |
| | | | CLO05 : Demonstrate knowledge and hone skills in caring for patients with altered functioning of sense organs and unconsciousness | | H | | | | | H | | | | | M | | | | | |

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| | HNIT 145 | Health/Nursing Informatics & Technology | CLO01. Develop a basic understanding of computer application and apply the knowledge in patient care and nursing education, practice, administration and research. | | | | | H | M | | | | | | | |
| | | | CLO02: Demonstrate the use of information system, Electronic Health Records (EHR) and Nursing Information System (NIS) system in nursing. | | | | | | H | H | | | | | | |
| | | | CLO03: Apply the knowledge of information, communication technology and interoperability standards in clinical setting and public health promotion. | | | | | | M | M | M | | | | | |
| | | | CLO04: Utilize evidence-based practices in informatics and technology for providing quality patient care to enhance employability | | | | | | | M | | | H | | M | |
| | | | CLO05: Demonstrate the skills of using data in management of health care | | | | | | | H | | H | | | | |
| 3 rd semester | MICR 201 | Applied Microbiology and infection control including safety | CLO01: Identify the ubiquity and diversity of microorganisms and explain the morphology and growth of microbes. | L | | | | | | | | | | | | |
| | | | CLO02: Identify various types of microorganisms and demonstrate skills in exploring mechanisms by which microorganisms cause disease | L | M | | | | | | | | | | | |
| | | | CLO03: Develop understanding of how the human immune system counteracts infection by specific and non-specific mechanisms. | L | | | | | | | | | | | | |
| | | | CLO04: Develop understanding of the employee safety, indicator & various safety protocols to become more employable. | | | | | | H | | L | | | | | |

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| | | | CLO05: Develop understanding of the various disinfection and sterilization methods & techniques | | M | | | | | | | | | | | | |
| 3rd semester | Qu- PHAR (I) 205 PATH (I) 210 | Pharmacology I and Pathology I | CLO01: Describe pharmacodynamics and pharmacokinetics, principles of therapeutics, dose calculation & drug administration | | | | | | | M | | | | | | | |
| | | | CLO02: Describe the pharmacology of drugs acting on the GI system, respiratory system, cardiovascular system and endocrine system disorders. | | | | | M | M | | L | | | | | | |
| | | | CLO03: Describe the drugs acting on skin, used in treatment of communicable diseases, antiseptics & disinfectants. | | | | | M | | | L | | | | | | |
| | | | CLO04: Apply the knowledge of pathology in understanding the deviations from normal to abnormal pathology and rationalize the various laboratory investigations. | M | H | | | M | | | L | | | | | | |
| | | | CLO05: Demonstrate the understanding and skills in the methods of collection of blood, body cavity fluids, urine and faeces for various tests. | M | | | | | | | | | | | | | |
| 3rd semester | N- AHNL(I) 215 | Adult Health Nursing I with integrated pathophysiology Including BCLS module | CLO01: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection and sharpen clinical skills | H | | | | | L | | L | | | | | | |
| | | | CLO02: Explain the causes, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders to amplify the employability prowess. | H | H | | | | | | | | M | | | | |

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| | | | CLO03: Identify the drugs used in treating patients with medical surgical conditions and skills in assisting /performing diagnostics & therapeutic procedures. | L | L | | | | | | | | | | | |
| | | | CLO04: Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients. | | | M | | | | | | M | | | | |
| | | | CLO05: Maintain safe environment for patient & health care personnel, and provide evidence based nursing care | | M | | | | | | | M | H | | | |
| 3 rd semester | N- AHNP (1) 215 | Adult Health Nursing I with integrated pathophysiology Including BCLS module (Practical) | CLO01: Perform complete health assessment and develop skills and apply scientific principles in performing nursing procedures. | | | | | | L | L | | | | | | |
| | | | CLO02: Utilize the nursing process in providing care to sick adults in hospital | | | | | L | | | | | | | | |
| | | | CLO03: Explain nursing actions appropriately to the patients, meet educational needs and maintain safe environment. | | | L | | | H | | | | | | L | |
| | | | CLO04: Demonstrate the awareness of legal and ethical issues in nursing practice. | | | L | H | | | L | | | | | | |
| | | | CLO05: Integrate knowledge of pathology, nutrition & pharmacology for the patients experiencing health illnesses to augment employability. | M | M | | | | | | | | | | | |

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| 4 th semester | PHAR(II) 205 PATH(II) 210 | Pharmacology (II) & Pathology (II) (including Genetics) | CLO01: Discuss the role and responsibilities of nurses towards safe administration of drugs used to treat disorders of various systems with basic understanding of pharmacology. | | | | | | | | | | | | | | | M | | |
| | | | CLO02: Explain and elaborate the drugs used to treat disorders of various system of the body. | | | | | | | L | | | | | | | | | | |
| | | | CLO03: Demonstrate understanding about the principles of prescribing and drugs used in alternative system of medicine. | | | | | | | L | | | | | | | | | | |
| | | | CLO04: Apply the knowledge of pathology in understanding diseases and demonstrate skills in collection of various samples | L | L | | | | | | | | | | | | | | | |
| | | | CLO05: Appreciate the various manifestations in patients with diagnosed genetic abnormalities and rationalize the specific diagnostic tests and services related to genetics. | M | M | | | | | | | | | | | | | | | L |
| 4 th semester | N-AHNL(II) 225 | Adult Health Nursing II with Integrated Pathophysiology including Geriatric Nursing and Palliative care module | CLO01: Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection and sharpen clinical skills | M | H | | | | | | | | | | | | M | | | |
| | | | CLO02: Explain the causes, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders to amplify the employability prowess. | M | H | | | | | | | | | | | | | | M | L |

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|--------------------------|----------------|--|---|---|---|---|---|---|---|---|---|---|---|--|---|---|
| | | | CLO03: Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and Responsibilities and identify the drugs used in treating patients with selected medical surgical conditions. | L | M | | | | | | | | | | L | |
| | | | CLO04: Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients. | | | M | | | | | | M | | | | |
| | | | CLO05: Maintain safe environment for patient & health care personnel, and provide evidence based nursing care | | M | | | | | | | M | H | | | |
| 4 th semester | N-AHNP(II) 225 | Adult Health Nursing II with Integrated Pathophysiology including Geriatric Nursing and Palliative care module (Practical) | CLO01: Perform complete health assessment and develop skills and apply scientific principles in performing nursing procedures. | | | | | | L | L | | | | | | |
| | | | CLO02: Utilize the nursing process in providing care to sick adults in hospital | | | | | L | | | | | | | | |
| | | | CLO03: Explain nursing actions appropriately to the patients, meet educational needs and maintain safe environment. | | | L | | | H | | | | | | | L |
| | | | CLO04: Demonstrate the awareness of legal and ethical issues in nursing practice. | | | L | H | | | | L | | | | | |
| | | | CLO05: Integrate knowledge of pathology, nutrition & pharmacology for the patients experiencing health illnesses to augment employability. | M | M | | | | | | | | | | | |

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|--------------------------|-------------------|--|--|---|---|---|---|--|---|---|---|---|--|---|--|---|---|--|
| 4 th semester | PROF 230 | Professionalism , Professional Values and Ethics including Bioethics | CLO01: Describe profession and professionalism and exhibit skills in maintaining respectful communication and relationship with other health team members, patients and society. | | | | M | | | M | H | | | | | | | |
| | | | CLO02: Describe various regulatory bodies and professional organizations related to nursing. | | | | M | | L | | | | | | | | | |
| | | | CLO03: Explain the professional values and reflect on the role and responsibilities in providing compassionate care in the healthcare setting to build up employability | | | | M | | | | | | | | | | | |
| | | | CLO04: Identify ethical and bioethical concerns, issues and dilemmas in nursing and apply knowledge of ethics and bioethics in ethical decision making. | | | | M | | | | L | | | | | | | |
| | | | CLO05: Advocate for patients wellbeing , professional growth & advancing profession | | | | L | | | | | | | | | M | M | |
| 5 th semester | Qu-N-CHNL(I) 301 | Child Health Nursing I including Essential newborn care (EBNC), FBNC, IMNCI and PLS, modules | CLO01: Develop understanding about modern concepts of child health care and emphasis on national child welfare services. | | M | | | | | | | H | | | | | | |
| | | | CLO02: Apply the knowledge and demonstrate skills in nursing management of common childhood diseases. | L | M | | | | M | | | | | | | | | |
| | | | CLO03: Apply principles and strategies of Integrated management of neonatal and childhood illness (IMNCI). | | L | H | | | | | | | | H | | | | |
| | | | CLO04: Participate in national and Universal Immunization Program | | L | H | | | | | | | | H | | | | |

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| | | | CLO05: Identify and manage childhood emergencies effectively and perform child CPR to boost employability skillset. | M | M | | | | | | | | | | H | | | |
| 5 th semester | Qu-N-CHNP (I) 301 | Child Health Nursing I including Essential newborn care (EBNC), FBNC, IMNCI and PLS, modules (Practical) | CLO01: Perform assessment of children: health, developmental & anthropometric to build up clinical skills. | M | H | | | | L | | | | L | | | | | |
| | | | CLO02: Provide nursing care to children with various medical disorders | M | H | | | | | | | | | M | | | | |
| | | | CLO03: Provide pre & postoperative care to children with common pediatric surgical conditions/ malformation. | M | H | | | | | | | | | | M | | | |
| | | | CLO04: Give health education/nutritional education to parents | | | H | | L | | | | | | | | | | |
| | | | CLO05: Counsel parents according to identified counselling needs | | | | | H | M | | | | | | | | | |
| 5 th semester | Qu-N-MHNL (I) 305 | Mental Health Nursing I | CLO01: Describe the evolution of mental health nursing and its scope, principles and concepts. | M | | | | | | | | | | | | | | |
| | | | CLO02: Perform mental health assessment and classify mental disorders to extend clinical skills | M | H | | | | | | | | | | L | | | |
| | | | CLO03: Apply the Indian Nursing Council practice standards for psychiatric mental health nursing in supervised clinical settings to fortify employability | | H | | H | | L | | | | | | | | | |
| | | | CLO04: Maintain therapeutic communication, nurse patient relationship and apply nursing process in delivering care to patients. | | | | | L | | | | | | H | | | | |
| | | | CLO05: Apply knowledge and demonstrate skills in managing various psychiatric disorders | | L | L | | | | | | | | | | H | | |

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| 5 th semester | Qu-N-MHNP (I) 305 | Mental Health Nursing I (Practical) | CLO01: Assess patients with mental health problems/disorders | H | M | | | | | | | | | | | | | |
| | | | CLO02: Counsel and educate patients and families | | | | | H | | | H | M | | | | | | |
| | | | CLO03: Perform individual and group psycho education | | | | | H | | | H | M | | | | | | |
| | | | CLO04: Provide nursing care to patients with mental health problems/disorders and patients with substance abuse | | H | | | | | M | | | | | | | | |
| | | | CLO05: Apply knowledge and demonstrate skills in assisting and providing various treatment modalities and therapies | | M | | | | | M | | | | | | | | |
| 5 th semester | N-COMH L(I) 310 | Community Health Nursing I including Environmental Science and Epidemiology | CLO01: Explain the approach , concepts and determinants of health and identify the levels of prevention and health problems in India | L | L | | | | | | | | | | | | | |
| | | | CLO02: Demonstrate understanding about environmental science, environmental health and sanitation. | | H | M | | | | | | | | | | | | |
| | | | CLO03: Identify and perform role and responsibility of community health nursing personnel in different health care levels in implementing national health programmes | | | H | M | | | | | M | | | | | | |
| | | | CLO04: Utilize knowledge and skills in providing comprehensive primary health care across the life span at various settings | | H | H | L | | | | | | | | | L | | |
| | | | CLO05: Make effective home visits and use epidemiological approach in community diagnosis to strengthen employability flair | M | | | | | | | | | M | H | | | | |

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| 5 th semester | N-COMH P(I) 310 | Community Health Nursing I including Environmental Science and Epidemiology (Practical) | CLO01: Provide health education to individual and families applying the principles and techniques of behaviour change appropriate to community settings | L | | H | | M | | | M | | | | | |
| | | | CLO02: Make effective home visits applying principles and methods used for home visit | | | | | | H | | M | H | | | | |
| | | | CLO03: Use epidemiological approach and skills in community diagnosis and investigate epidemic of communicable diseases. | | | | | | | | | | | | | |
| | | | CLO04: Assess, diagnose, manage and refer clients with various communicable and non-communicable diseases | H | | | | | M | | | M | | | | |
| | | | CLO05: Demonstrate skills in nutritional assessment for different age groups in community & provide appropriate counselling | M | | L | | | | | | M | | | | |
| 5 th semester | EDUC 315 | Educational Technology/Nursing Education | CLO01: Develop understanding of concept of teaching & learning, various teaching styles, curriculum planning & organizing | | | | | | | | | | M | L | | |
| | | | CLO02: Integrate the principles of teaching & learning in selection and use of educational media, evidence-based teaching practices | | | | | | | | | | M | L | L | |
| | | | CLO03: Demonstrate skills in selection and applying evaluation tools integrating cognitive, psychomotor, affective domains of learning that can measure knowledge and skills of students | | | | L | | | | | | | | M | L |

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| | | | CLO04: Identify crisis and grievances experienced by students and provide appropriate counselling | | | | | | | | | | | | | | M | L | | | | | | |
| | | | CLO05: Utilize active learning strategies and skills that enhance critical thinking, team learning & collaboration, and engage in ethical practice in education & clinical setting | | | | | | | | | | | | | | L | | M | H | | | | |
| 5 th Sem | N-FORN 320 | Introduction to Forensic Nursing | CLO01: Identify forensic nursing as an emerging specialty in healthcare and nursing practice. | | | | | | | | | | | | | | | | | H | | | | |
| | | | CLO02: Explore the history and scope of forensic nursing practice. | | L | | | | | | | | | | | | | | | | | L | | |
| | | | CLO03: Explain the importance of forensic science in total care of patient | | L | | | | | | | | | | | | | | | L | | | L | |
| | | | CLO04: Develop basic understanding of the Indian judicial system and legal procedures. | | | | | M | | M | | | | | | | | | | | | | | |
| | | | CLO05: Identify forensic team, role and responsibilities of forensic nurse in total care of victim of violence and in preservation of evidence to build employability flair | | M | | | | | | | | | | | | | | | | | | | M |
| 6 th semester | N-CHNL(II) 301 | Child Health Nursing (II) | CLO01: Apply knowledge and demonstrate skills in provide nursing care to neonates with various diseases | M | H | | | | | M | | M | | | | | | | | | | | | |
| | | | CLO02: Apply knowledge and demonstrate skills in provide nursing care to children with various diseases. | M | H | | | | | M | | M | | | | | | | | | | | | |
| | | | CLO03: Provide care to children with common behavioural, social and psychiatric problems efficiently | M | H | | | | | M | | M | | | | | | | | | | | | |
| | | | CLO04: Develop skills to manage challenged children | M | H | | | | | | | | | | | | | | | | | | | |

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| | | | CLO05: Demonstrate understanding of the social and welfare services for challenged children. | | | H | | | M | | | | | | | |
| 6th semester | N-CHNP(II) 301 | Child Health Nursing (II) (Practical) | CLO01: Exhibit skills in assessment of children and develop competencies in providing in nursing care of children with various disorders. | M | H | | | | M | | | | | | | |
| | | | CLO02: Provide pre & postoperative care to children with common paediatric surgical conditions/ malformation | M | H | | | | H | | | | | | | |
| | | | CLO03: Perform immunization as per NIS. | | | H | | | M | | | M | | | | |
| | | | CLO04: Give health education/nutritional education to parents | | | H | | | | | H | | | | | |
| | | | CLO05: Counsel to parents according to identified counselling needs. | | | M | | H | | | | M | | | | |
| 6th semester | N-MHNL(II) 305 | Mental Health Nursing (II) | CLO01: Apply nursing process in providing care to patients with various psychotic and neurotic disorders. | M | H | | | | | | | M | | | | |
| | | | CLO02: Identify and assist in treating various psychiatric emergencies and perform crisis interventions under supervision. | M | H | | | | | | | M | | | | |
| | | | CLO03: Demonstrate skills in admission and discharge procedures as per MHCA 2017. | | | | H | | H | | | | | | | |
| | | | CLO04: Apply nursing process in providing care to patients with organic brain disorders | M | H | | | | | | | M | | | | |
| | | | CLO05: Explore the roles & responsibilities of community mental health nurse in delivering community mental health services | | M | | | | | | | | | | M | H |

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| 6 th semester | N- MHNP (II)305 | Mental Health Nursing II (Practical) | CLO01: Provide nursing care to patients with mental health problems/substance abuse disorders. | | L | | | | L | | | | | | | |
| | | | CLO02: Perform individual & group psycho-education | | | H | | | M | | H | | | | | |
| | | | CLO03: Apply knowledge and demonstrate competencies in assisting in various treatment modalities for patients with mental health disorders | M | M | | | | | | | M | | | | |
| | | | CLO04: Identify and respond to psychiatric Emergencies to strengthen employability | M | H | | | | | | | | M | | | |
| | | | CLO05: Exhibit skills in motivating the patients and families for early treatment and follow up. | | | H | | | | M | | H | | | | L |
| 6 th semester | NMLE L330 | Nursing Management and Leadership | CLO01: Apply the concept of human resource management and identify the job description of all categories of nursing personnel including in service education | | | | | | | | | | H | M | | |
| | | | CLO02: Develop and engage in team working and inter professional collaboration competencies enhance the employability skills | | | | | | | | M | | | L | H | |
| | | | CLO03: Demonstrate beginning competencies in planning, organizing and staffing at college including implementation and evaluation of curriculum to inculcate entrepreneurship abilities | | | | | | | | | | | | | L |
| | | | CLO04: Identify effective leadership styles and develop leadership competencies to develop entrepreneur spirit | | | | | | | M | | | M | | | H |

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| | | | CLO05: Demonstrate understanding of the INC guidelines for establishment and accreditation of educational institutions in terms of faculty norms, physical infrastructure and clinical facilities. | | | | | | | | | | | | L | H | | |
| 6th semester | Qu-N-MIDW L(I)/O BGN 335 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing I including SBA module | CLO0 1: Demonstrate skills in providing evidence based antenatal, intranatal, postnatal care and essential new born care. | M | H | | | | | | | M | H | | | | | |
| | | | CLO02: Demonstrate skills in providing evidence based essential new born care. | M | H | | | | | | | M | H | | | | | |
| | | | CLO03: Recognize the trends and issues in midwifery & obstetrical nursing | | M | | | | | | | | | M | | | L | |
| | | | CLO04: Describe the methods of contraception and role of nurse/midwife in family welfare services. | | M | H | | | | | | M | | | | | | |
| | | | CLO05: Provide youth friendly services, actively participate in family welfare programs | | | H | | | | | | M | | | | | M | |
| 6th semester | Qu-N-MIDW P(I)/O BGN33 5 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing I including SBA module (Practical) | CLO01: Assist and perform specific investigations for antenatal mothers | M | M | | | | | | | | | | | | | |
| | | | CLO02: Perform per-vaginal examination for a woman in labour and conduct normal child birth | H | H | | | | | M | | M | | | M | | | |
| | | | CLO03: Demonstrate skills in resuscitating the newborn and providing immediate care of newborn to build employability flare. | H | H | | | | | M | | M | | | M | | | |
| | | | CLO04: Exhibit skills in postnatal and newborn assessment, and provide care for postnatal mothers and their newborn | H | H | | | | | | | M | M | | | | | |
| | | | CLO05: Counsel the women on family planning, and provide necessary care to woman affected with gender based violence | | | H | | H | | | | M | | | | | | |

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| 7 th semester | N-COMH L (II) 401 | Community Health Nursing II | CO01: Demonstrate skills relevant to providing comprehensive care primary care/ community based care to clients with common physical disorders, mental disorders ,and in providing appropriate referral services | M | H | M | | | | | | | M | | | | |
| | | | CO02: Identify occupational hazards, occupational diseases and role of nurse in occupational health programs. | | | H | | M | | | | | | | | | L |
| | | | CO03: Provide maternal, newborn and child care, and reproductive health including adolescent care in rural and urban health care setting | M | H | M | | | | | | | | | | | |
| | | | CO04: Describe the leadership role in guiding, supervising, and monitoring the health services and the personnel at the PHCs, SCs and community level including financial management and maintenance of records and reports. | | | H | | | | | | | L | | | L | L |
| | | | CO05: Describe the roles and responsibilities of Mid-Level Health Care Providers (MHCPs) in Health Wellness Centers | | | | | | | | | | M | | | H | M |
| 7 th semester | N-COMH P(II)401 | Community Health Nursing II (Practical) | CO01: Screen, diagnose, manage and refer clients with common physical and mental health conditions/ emergencies and occupational health problems. | M | H | | | | | | | | M | | | | |
| | | | CO02: Exhibit competencies in assess and providing antenatal, intrapartum, postnatal and new- born care | M | H | | | | M | | | | | | | | |
| | | | CO03: Demonstrate skills in proper bio-medical waste management as per protocol. | | | H | | | H | | | M | | | M | | |

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| | | | CO04: Participate in community diagnosis-data management and health centre activities | | | H | | | | | | H | | | | | |
| | | | CO05: Organize and conduct clinics/health camps in the community to build entrepreneurial spirit. | | | M | | | | | | | | M | H | | |
| 7 th semester | NRST 405 | Nursing Research & Statistics | CLO01: Identify research priority areas | M | | | | | | H | | | | | L | | |
| | | | CLO02: Applying the knowledge of research process through identification of research problem, literature review, designing the research study, collecting the data and analysing the data and presenting the data. | | | | | M | M | | | | | | | L | |
| | | | CLO03: Conduct the research projects in groups to inculcate entrepreneurial spirit. | | | | | | | | M | L | | | | | |
| | | | CLO04: Analyze and interpret the given data | | | | | | M | | | | H | | | | |
| | | | CLO05: Develop knowledge and skills in communication of research findings to nursing fraternity. | | | | | | M | H | | | H | M | | | |
| 7 th semester | N-MIDW L(II)/O BGNL 410 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing II including safe delivery app module | CLO01: Describe the assessment, initial management, referral and respectful maternity care of women with high risk pregnancy, high risk labour and abnormal postnatal conditions. | L | L | | | | | | | | | | | | |
| | | | CLO02: Describe the assessment and management of women with gynecological disorders. | L | L | | | | | | | | | | | | |
| | | | CLO03: Identify and demonstrate skills in providing care to normal newborn and high risk neonates. | L | H | | | | | | | M | | | | | |

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| | | | CLO04: Identify and showcase skills manage high risk pregnancy, abnormal labor and puerperium including appropriate referrals. | M | H | | | | | | | M | | | | | |
| | | | CLO05: Elaborate indication, dosage, action, side effects and nursing responsibility in administrating drugs for mothers. | L | L | | | | | | | | | | | | |
| | | | CLO06: Apply knowledge and demonstrate skills in providing youth friendly health services and care for women affected by gender based violence to develop employability skills. | | H | | | | | | | | M | L | | | |
| 7th semester | N- MIDW L(II)/O BGN 410 | Midwifery/Obstetrics & Gynaecology (OBG)Nursing II (Practical) | CLO01: Perform antenatal assessment and care to pregnant women with normal and high-risk pregnancy. | M | H | | | | | | | | | M | | | |
| | | | CLO02: Conduct Normal Vaginal delivery independently and assist in conducting caesarean section | M | H | | | | | | | M | | M | | | |
| | | | CLO03: Perform assessment and care of postnatal mother and identify postnatal complications. | M | H | | | | | | | | | | | | |
| | | | CLO04: Provide nursing care to newborn and provide the counselling to the couple regarding family planning methods. | M | H | M | | | | | | | | | | | |
| | | | CLO05: Assist in gynecological and obstetric surgeries and provide care to women with gynecological disorders | M | H | | | | | | | | M | | | | |

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| | | | CLO06: Demonstrate competencies/ skills in providing respectful and evidence based maternity care for women during antenatal, intranatal and postnatal period. | M | H | | | M | | | | | | M | | |
| 8 th semester | INTE 415- 435 | Internship | CLO01: Provide holistic need based independent nursing care based on identified priority needs of the clients | | H | | | | H | | | H | | | | |
| | | | CLO02: Apply problem solving approach to resolve the problems of client and able to take responsibility in the management of patient care to inculcate managerial skills | | | H | | | | M | | | | | M | |
| | | | CLO03: Engaged in the need-based research to improve patient quality and contribute to professional advancement | | | | | | | | H | | | | M | M |
| | | | CLO04: Collaborate with the health team members in the need-based research for the improvement of Quality care | | | | | | | | H | | H | M | | |
| | | | CLO05: Participate in national health program to hone skills as a community health nurse | | | H | | | | | | | | L | | M |

