

Module 1: Trauma, Emergency and Basic Life Support

Code : TEB 1201
 Hours : 12 Hours
 Credits : 1

Pre-requisite(s): FAI 1202, INP 1109, FNU 1111

Module Competence

This module is designed to enable the learner diagnose and manage collapsed patients, patients involved in trauma and casualties of mass accidents.

Module Outcomes

By the end of this module, the learner should:

1. Perform Basic Life Support
2. Manage patients following trauma
3. Apply principles of trauma in providing emergency care to casualties of mass accidents

Module Units

Number	Name	Hours	
		Theory	Practical
1	Basic Life Support	02	02
2	Systems Approach to Trauma	02	00
3	Casualty Mass Accidents	04	02

Module Content

Basic life Support (BLS); resuscitation of the adult, child and infant. Systems approach to trauma; assessment of signs of life (ABCD) and their management, organization (assessment of situation, prioritization, staff deployment and control of the situation). Casualty mass accidents; types of emergencies, principles of trauma and emergency care (trauma triaging-primary and secondary survey), transport, hospital care

Teaching Strategies

Group Discussions, Lectures, Demonstrations, Role plays

Teaching/Learning Resources

Chalk & chalkboard, LCD Projector & laptop, Textbooks, Manikins, Flip charts, Posters, Procedure Manuals

Assessment Strategies

Formative: CATs, RATs, Assignments, Case Presentations, End of Semester Examination

Summative: OSCE

Module 1: Cardiovascular Nursing

Code : CYN 1202
 Hours : 16
 Credits : 2

Pre-requisite(s): ANP 1109, FNU 1202, MIM 1102

Module Competence

This module is designed to enable the learner manage and rehabilitate patients suffering from cardiovascular diseases, using the Nursing Process approach.

Module Outcomes

By the end of this module, the student should;

1. Manage patients suffering from cardiac disorders using the Nursing Process approach
2. Manage patients suffering from vascular disorders using the Nursing Process approach

Module Units

Number	Name	Hours	
		Theory	Practical
1	Cardiac Disorders	08	00
2	Vascular Disorders	07	00

Module Content

Cardiac disorders; congestive cardiac failure, rheumatic heart disease, valvular disease, coronary heart disease, infective endocarditis, myocardial infarction, cardiomyopathy, Vascular conditions; atherosclerosis, arteriosclerosis, aneurysm, gangrene, varicose veins, phlebitis, deep venous thrombosis, embolism, hypertension

Teaching Strategies

Group Discussions, Lectures, Demonstrations, Role plays

Teaching/Learning Resources

Chalk & chalkboard, LCD Projector & laptop, Text books, Manikins, Flip charts, Posters, Procedure Manuals

Module 11: Hematological Nursing

Code : HFN 1201
 Hours : 12
 Credits : 1

Pre-requisite(s): ANP 1109, FNU 1202, MIM 1102

Module Competence

This module is designed to enable the learner to promote health, prevent illness, manage and rehabilitate patients suffering from blood diseases.

Module Outcomes

By the end of this module, the learner should;

1. Manage patients with Anemias using the nursing process
2. Manage patients with Blood cancers using the nursing process
3. Manage patients with infection-related blood conditions using the nursing process
4. Manage patients with infection-related blood conditions using the nursing process

Module Units

Number	Name	Hours	
		Theory	Practical
1	Anaemias	02	00
2	Blood Cancers	04	00
3	Infection Related Conditions	03	00
4	Hemorrhagic Conditions	03	00

Module Content

Anemias; sickle cell disease, iron-deficiency anemia. Blood cancers; polycythemia vera leukemia, lymphomas, lymphadenopathy lymphadenopathy. Infection-related conditions; agranulocytosis, hypoprothrombinemia. Hemorrhagic conditions; thrombocytopenic purpura, haemophilia, Disseminated Intravascular Coagulation.

Teaching Strategies

Group Discussions, Lectures, Demonstrations, Role plays

Teaching/Learning Resources

Chalk & chalkboard, LCD Projector & laptop, Textbooks, Manikins, Flip charts, Posters.

Module 24: Medical - Surgical Nursing

Code : MSN 1202
Hours : 16
Credits : 2

Pre-requisite(s): ANP 1109, FNU1202, MIM 1102

Module Competence

This module is designed to enable the learner promote health, prevent illness, manage and rehabilitate patients suffering from medical and surgical conditions.

Module Outcomes

By the of this module, the learner should;

1. Apply basic concepts of medical surgical nursing in providing care
2. Demonstrate ability to relate various diseases to their classifications
3. Manage medical-surgical conditions using the nursing process
4. Manage patients with burns

Module Units

Number	Name	Hours	
		Theory	Practical
1	Basic concepts in medical- surgical nursing	02	00
2	Classification of diseases	02	00
3	Medical-surgical conditions	04	00
4	Burns	06	00

Module Content

Basic concepts in medical-surgical nursing; definitions, history of medicine and surgery, the process of inflammation. Classification of diseases; genetic, bacterial, viral, neoplastic, (benign & malignant) traumatic. Medical-surgical conditions; cellulitis, boils, septicaemia, abscesses. wound healing, fluid and electrolyte imbalance, acid-base imbalance, shock, Burns; types of burns (thermal, chemical, electrical, friction, radiation), classification of burns (first, second and third degree burns), local and systemic responses to burns, management of burn injuries (resuscitative, acute phase), rehabilitation.

Teaching Strategies

Group Discussions, Lectures, Demonstrations, Role plays

Teaching/Learning Resources

Module 25: Specialized Procedures I

Code : SPR 1201
Hours : 13
Credits : 4

Prerequisite(s): CVN 1202, HFN 1201, PUN 1201

Module Competence

This module is designed to enable the learner provide care to patients/ clients undergoing specialized procedures.

Module Outcomes

By the end of this module, the learner should;

1. Manage patients undergoing specialized diagnostic procedures
2. Manage patients undergoing radiological examinations
3. Manage patients undergoing endoscopic examinations
4. Manage patients scheduled for Voluntary Medical Male Circumcision.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Diagnostic procedures	04	00
2	Radiological examinations	04	00
3	Endoscopic examinations	02	00
4	Voluntary Medical Male Circumcision	04	00

Module Content

Diagnostic Procedures: the role of the nurse in these procedures (lumbar puncture, biopsies, paracentesis (thoracis and abdominis), dialysis, catheterization, urinary bladder irrigation management, cholecystogram, cholangiogram, venogram, myelogram, hysterosalpingogram, retrograde pyelogram, endoscopic retrograde cholangio-pancreatography (ERCP), stoma care. **Radiological examinations;** common X-Rays (chest X-Ray, skull X-Ray, X-Rays of the bones), Computed Tomography Scan (CT Scan), Magnetic Resonance Imaging (MRI), Endoscopic examinations; bronchoscopy, oesophagoscopy, gastroscopy, sigmoidoscopy, proctoscopy, cystoscopy, laparoscopy, (role of a nurse in these procedures). **Voluntary Medical Male Circumcision (VMMC);** epidemiology of male circumcision and HIV, importance of male circumcision in HIV prevention, benefits of VMMC, risks, operative procedure (dorsal slit, forceps guided, sleeve resection)

Teaching Strategies

Group Discussion, Lectures, Demonstrations, Role plays

Module 26 Pharmacology I

Code : P11A 1203
 Hours : 30
 Credits : 3

Prerequisite(s): ANP 1109, MIM 1102

Module Competence

This module is designed to enable the learner administer pharmacological agents to clients and patients in order to prevent illnesses, treat diseases and promote health

Module Outcomes

By the end of this module, the learner should

1. Apply knowledge on pharmacokinetics and pharmacodynamics in educating clients/patients
2. Administer antibiotics to clients with microbial infections
3. Monitor patients on cytotoxic agents for side effects
4. Administer antihistamines to clients with allergic/ hypersensitivity reactions
5. Administer analgesics to clients with inflammatory and painful conditions
6. Administer and monitor patients on steroid therapy
7. Administer bronchodilator agents to patients with obstructive airway disorders
8. Administer antibiotics to clients with microbial infections
9. Administer haematinics to clients with anaemia
10. Administer diuretics to clients with fluid overload.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Introduction to pharmacology	04	00
2	Antimicrobial agents	06	00
3	Cytotoxic agents	02	00
4	Histamines and antihistamines	02	00
5	Analgesics	04	00
6	Steroids	02	00
7	Bronchodilators	02	00
8	Anticoagulants	02	00
9	Hematinics	02	00
10	Diuretics	04	00

Module Content

Introduction to Pharmacology; definition of terms, drug names, sources of drugs, dose dosage and dosage forms, routes of drug administration, the principles of pharmacokinetics and pharmacodynamics, concept of critical threshold and drug half-life, drugs and pregnancy, pediatrics considerations in pharmacotherapy, geriatrics consideration in pharmacotherapy, fundamentals of pharmacology, drug tolerance and physiological dependence, the role of a nurse in

pharmacotherapy Antimicrobial Agents; antibacterials; penicillins, cephalosporins, macrolides, aminoglycosides, tetracyclines, chloramphenicol, fluoroquinolones, vancomycin, lincosamides, sulphonamides, trimethoprim, antituberculous, antivirals, antiretrovirals (fusion/entry inhibitors, nucleosides and non-nucleosides reverse transcriptase inhibitors, reverse transcriptase inhibitors, protease inhibitors). Antifungal agents; azole derivatives, polyene macrolides, echinocandins, allylamines, griseofulvin, antimalarials, antiprotozoals: antihelminthics, Cytotoxics; antimetabolites, alkylating agents, anticancer antibiotics, vinca alkaloids, taxanes, enzymes, epipodophylotoxins, camptothecin analogs, biological response modifiers, hormone and hormone antagonists Histamine and Antihistamines; Analgesics; narcotic, Non-Steroidal Anti-inflammatory Drugs (NSAIDs) aspirin, paracetamol, oxicam derivatives, propionic acid derivatives, acetic acid derivatives, cox-2 inhibitors Steroids; natural, synthetic. Bronchodilators; methylxanthines, beta adrenoceptor agonists, anticholinergics. Anticoagulants; heparin, oral anticoagulants, Haematinics; iron, folate, vitamin B12, erythropoietin. Diuretics; loop, osmotic, Thiazide, potassium sparing, carbonic anhydrase inhibitors.

Teaching Strategies

Interactive lectures, Brain storming, Group discussions, Demonstration

Teaching/Learning Resources

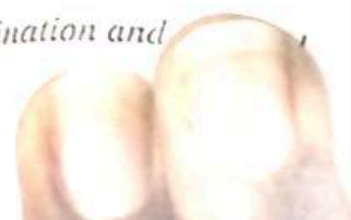
LCD & Laptop, Whiteboard & markers, Flip charts, Journals, Unpublished material (teacher's notes)

Assessment Strategies

Formative: CATs, RATs, Assignments, Case Presentations, End of Semester Examination, Promotional examination.

References/Further Readings

- Greenstein Ben (2009). *Trounce's Clinical Pharmacology for Nurses. 18th Edition.* Edinburgh: Churchill Livingstone
- Rang H. P et.al (2007). *Rang and Dale's Pharmacology 6th Edition.* USA: Churchill Livingstone
- Trevor Anthony J. et.al (2008). *Katzung and Trevor's Pharmacology. Examination and Review, 18th Edition.* Boston Butt Ridge: Mc Graw Hill.



Module 27: Pulmonary Nursing

REVISED 2022-2023

Code : PUN 1201
Hours : 14
Credits : 1

Pre-requisite(s): APN 1109, MIM 1102

Module Competence

This module is designed to enable the learner diagnose, manage and rehabilitate patients with respiratory conditions

Module Outcomes

By the end of this module, the learner should;

1. Manage patients with restrictive respiratory disorders using the nursing process
2. Manage patients with obstructive respiratory disorders using the nursing process.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Restrictive disorders and conditions	07	00
2	Obstructive disorders and conditions	07	00

Module Content

Restrictive disorders/conditions: Pneumonia (broncho-pneumonia and lobar pneumonia), Chest injury, pneumothorax, Carcinoma of the lung, Pleurisy, Obstructive conditions: Emphysema, Chronic obstructive pulmonary diseases (Chronic bronchitis and emphysema), Bronchial Asthma and Status Asthmaticus, Bronchiectasis, Bronchiolitis

Teaching Strategies

Interactive lectures, Brain storming, Group discussions, Demonstration

Teaching/Learning Resources

LCD & Laptop, Whiteboard & markers, Flip charts, Journals, Unpublished material (teacher's notes)

Assessment Strategies

Formative: CATs, RATs, Assignments, Case Presentations, End of Semester Examination
Promotional examination.

References/Further Readings

Basavanthappa B.T. (2015). *Medical- Surgical Nursing, 3rd Edition (vol.1 & 2)*. Health Sciences Publisher.

Module 28: Gender and Sexual Health

Code : GSH 1203
 Hours : 30
 Credits : 3

Pre-requisite(s): MNH 1105, RHM 1192

Module Competence

This module is designed to enable the learner diagnose and manage gender and sexual health issues in reproductive health.

Module Outcomes

By the end of this module, the learner should;

1. Utilize knowledge and skills in management of sexual and adolescent health issues
2. Manage clients with gender issues affecting reproductive health.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Sexuality, Sexual Health/ Adolescent Health	10	00
2	Gender and Health	20	00

Module Content

Sexuality, sexual Health/ Adolescent Health; introduction to sexuality and sexual health; sexual orientation, identity, body mapping, integration of sexual health into holistic care, attitude change towards sexuality, adolescent and youth sexual reproductive health needs, youth friendly services, role of health care providers in promoting adolescent sexual and reproductive health. Gender and health; Concepts, Social construction of gender (gender sensitivity, gender discrimination, gender responsiveness, stereotype, gender roles, difference between gender and sex, basic gender and development concepts, inequity and equality, equity, gender awareness) gender analysis (definition, women's empowerment, tools in gender) Gender issues affecting health (gender mainstreaming - definition, purpose and process, traditional, cultural and religious factors, poverty, marriage practices and Succession Act, socio-economical and legal aspects, sexual dimension organized on gender lines, education level, Gender-based violence (definition, types (rape, sexual violence), effects, consequences, management, Sexual Offences Act, Children's Act, Female Genital Mutilation (definition, strategies, classification, health implications, legal issues, management and preventive interventions), rites of passage (definition, strategies, health implications).

Teaching Strategies

Interactive lectures, Brain storming, Group discussions, Demonstration

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Module 29: Maternal and Newborn Health II

KMTC/QP-09/D/SUR/CUR

Code : MNH 1210
Hours : 97
Credits : 10

Pre-requisite(s): MNH 1105, RHM 1102

Module Competence

The module is designed to enable the learner diagnose, manage and rehabilitate patients with obstetric and medical complications in pregnancy.

Module Outcomes

By the end of this module, the learner should;

1. Provide care to women with complications in pregnancy
2. Provide care to women with complications in labour
3. Provide care to women with complications in puerperium
4. Provide care to newborns with complications
5. Manage maternal obstetric and newborn emergencies
6. Document and disseminate findings of Maternal Death Surveillance Response

Module Units

Number	Name	Hours	
		Theory	Practical
1.	Complications in Pregnancy	30	00
2.	Complications of Labour	12	00
3.	Complications of Puerperium	07	00
4.	Complications of the newborn	20	00
5.	Obstetric emergencies	26	00
6.	Maternal Death Surveillance Response	02	00

Module Content

Complications in pregnancy; definition, incidence, pathophysiology, risk factors, screening, clinical presentations, diagnosis, management, prevention and control, complications obstetric conditions (hyperemesis gravidarum, multiple pregnancy, polyhydromnious, oligohydromnious, premature rupture of membranes, postdatism, premature labour) medical conditions (anemia, hypertension in pregnancy, diabetes in pregnancy, cardiac disease, pycelonephritis, malaria, tuberculosis in pregnancy, Intra-Uterine Fetal Death (IUFD), Intra-Uterine Growth Restriction (IUGR), rhesus and ABO incompatibility, malnutrition in pregnancy, Deep Venous Thrombosis (DVT) in pregnancy, opportunistic infections of STI/HIV/AIDS, sickle cell disease in pregnancy, thyrotoxicosis, syphilis in pregnancy). Complications of labor; factors that influence outcome of labor, malpresentation, malpositions, cephalopelvic disproportion, prolonged labor, obstructed labour, precipitate labour, trial of labor/scar, perineal tears, cervical tears, fetal compromise, maternal distress, hypotonic and hypertonic uterine contractions, Premature Rupture of Membranes (PROM), premature labor. Complications of Puerperium; breast complications, psychosis, pyrexia, sepsis, Deep Venous Thrombosis, Complications of the newborn; low birth weight

congenital abnormalities, fetal compromise, respiratory distress syndrome, birth injuries and trauma, neonatal jaundice, neonatal sepsis, hypothermia, hypoglycemia, haemorrhage, baby of a diabetic mother, ophthalmic neonatorum. Obstetric emergencies; post-partum hemorrhage, antepartum hemorrhage, Amniotic fluid embolism, shoulder dystocia pre-eclampsia, eclampsia cord prolapse and presentation, ruptured uterus. Uterine inversion. Community midwifery; concepts, male involvement, Maternal Death Surveillance Response (MDSR) (definition, types of audit, audit process).

Teaching Strategies

Group discussion, Lecture, Demonstration and return demonstration, Audio visual Aids, Role plays and skill labs session.

Teaching/Learning Resources

Provision of handouts, Text books, Models and manikins, Flip charts, Posters, Audio visual Aids, Procedure manuals, Chalkboard, LCD and Projector.

Assessment Strategies

Formative: Quiz, CATs, RATs, assignments, case presentation, mid semester examination, Promotional examination.

References/Further Readings

- Ministry of Health (2010). *National Guidelines on Diagnosis, Treatment and Prevention Malaria for Health Workers*. Ministry of Health, Kenya.
- Ministry of Health (2002). *Essential Obstetric Care Manual for Health Service Providers in Kenya. A Safe Motherhood Initiative*.
- Ministry of health (2008). *Kenya AIDS Indicator Survey -KAIS- 2007 409 National Guidelines for Quality Obstetrics and Prenatal Care*.
- Ministry of health (2010). *National Guidelines on Breastfeeding and HIV/AIDS*. Ministry of Health Kenya

Module 09 Family Planning and Reproductive Health

Code : FPR1201
 Hours : 12
 Credits : 1

Pre-requisite(s): MNH 1105, RHM 1102

Module Competence

This module is designed to enable the learner manage clients on contraceptives.

Module Outcomes

By the end of this module, the learner should;

1. Apply principles of counselling in providing family planning services to clients.
2. Provide appropriate family planning services to women/clients
3. Assess clients for provision of family planning services.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Introduction to Family Planning	02	00
2	Contraceptive Technology	08	00
3	Medical Eligibility Criteria	02	00

Introduction to Family Planning; definition, history of family planning in Kenya, Concepts, principles of counselling in FP, role of family planning in reproductive health. Contraceptive Technology; definitions, methods (natural and artificial, long acting and permanent) emergency contraceptives (definition, indication, types, mode of action, dosage guidelines) side effects, benefits, factors influencing acceptance, barriers, management of side effects Medical eligibility criteria; definition, reasons and categories, emerging issues, child spacing, unmet needs in reproductive health, and the importance of bridging Emergency Contraceptive users to other reproductive health.

Teaching Strategies

Group discussion, Lecture, Demonstration and return demonstration, Role plays.

Teaching/Learning Resources

Text books, Handouts, Models and manikins, Flip charts, Posters, Visual Charts, Procedure

Module 3: Community Health Nursing II

Code : CHN 1203
 Hours : 30
 Credits : 3

Prerequisite(s): CHN 1103, CHN 1101

Module Competence

This module is designed to enable the learner plan, implement and evaluate integrated health services.

Module Outcomes

By the end of this module, the learner should;

1. Demonstrate understanding of health policies and initiatives relevant to the Kenyan health care delivery system
2. Practice in the context of the devolved health care system.
3. Provide integrated health services at all levels of health care delivery

Module Units

Number	Name	Hours	
		Theory	Practical
1	National and international goals and initiatives in health care	07	00
2	Introduction to Health care delivery system	15	00
3	Integrated health services	08	00

Module Content

National and international goals and initiatives in health care; policies guiding health care delivery in Kenya Global (Alma Ata Declaration 1978, Vision 2030, Sustainable Development Goals. African Region Policies (Abuja Declaration, Paris declaration, Ouagadougou declaration, Convention on the Rights of a Child, International convention on population and development (ICPD Cairo). Kenyan Health Policy (Kenya health strategic and investment plan 2012-2030-objectives). Health care Delivery System; definition, policies guiding health care delivery, pillars of a health care system, organization of health services in Kenya under devolved health care system (The 4 Tier System), Ministry of Health objectives, Ministry of health vision 2030 flagship projects, organization of health services at the national level (functions of the national level, organization of the health services at the county level (members of the county health management team, roles and functions) sub county health management team (members, roles and functions) Inter-sectoral collaboration (other government ministries, NGOs, FBOs, HMOs, sector wide approach roles in health care delivery), regulation of health services, stakeholders in health care delivery system, universal health care concept. The Kenya essential Package for health (KEPHIS), components, high impact community health interventions at tier 1, Life cycle Cohort (Key Messages/interventions at tier 1. Integrated Health services; definitions, concept of Rural Health services, services offered at a static facility, Outreach services, - home visiting (benefits, sources of clients for home visiting, types of clients for home visiting, phases/steps in conducting home visiting, advantages, disadvantages, constraints), school health program (aim, objectives

goals, policy guidelines, components, parents teachers association role, role of a nurse in implementation and evaluation of school health services) and mobile clinic services (definition, mobile clinic team members, services offered during mobile clinic, role of a nurse in planning, implementation and evaluation of mobile clinic services), prevention of home accidents.

Teaching Strategies

Interactive Lectures, Group Discussion, Field Trips.

Teaching/Learning Resources

Text Books, Internet, Overhead projector, LCDs, Handouts, White Boards, White Board Marker Pen, Chalk board.

Assessment Strategies

Formative: Assignments, RATs, CATs, Case presentations, Case studies, End of semester examinations, Promotional examinations, Clinical assessments.

References/Further Readings

Edelman, M (2010). *Health promotion throughout the Lifespan*. USA: WB Saunders Elsevier

Huber, D. (2010). *Leadership and Nursing Care Management*. USA: WB Saunders Company

MOH, Kenya.(2012). *Kenya Health investment and strategic Plan 2012 -2017*

Stanhope, M. (2014). *Foundations of Nursing; Community Oriented Practice*. St.Louis Elsevier.

Module 12: Immunization

Code : IMS 1202
 Hours : 24
 Credits : 2

Pre-requisite(s): MIM 1102, PHA 1203, FNU 1111

Module Competence

This module is designed to enable the learner plan, organize, coordinate, implement, monitor and evaluate an immunization programme

Module Outcomes

- By the end of this module, the learner should;
1. Provide immunization services
 2. Manage an immunization programme

Module Units

Number	Name	Hours	
		Theory	Practical
1	Immunization systems, operations, policies, norms and standards	02	00
2	Service delivery strategies and innovative approaches	02	02
3	Vaccinology and expanded programme on immunization vaccines	02	00
4	Immunization service delivery and vaccine administration	06	04
5	Immunization Programme Management	06	00

Module Content

Immunization Systems operations, policies, norms and standards; definition of terms (cold chain, combined vaccine, coverage, dropout rate coverage, indicator, logistics, norms, elimination, eradication, external environment, micro plan, missed opportunity for immunizations, standards, strategy, support supervision, target), introduction to EPI (Background, current immunization status in Kenya), external environment and immunization programme, immunization operational components ,supportive components of immunization services. Policies, norms and standards; policies (global, Africa region and country) norms and standards (community participation, integrated approach, accessibility and equity. quality of services and safety, coordination and leadership, regulatory issues related to immunizations).Service delivery strategies and innovative approaches; (static/fixed, outreach services, mobile teams and immunization campaigns or supplemental immunization activities), strategy for integration(integrated mother-and-child care), and innovative approaches (Decade of vaccines, Global vaccine action plan 2011-2020, GVAP for pneumonia and diarrheal GAPPD, Reach Every district RFD/Reach Every Community/ Reach every child) new challenges (unimmunized, under immunized, unreached, hard to reach).Vaccinology and the Expanded programme on immunizations vaccines; immunity (definition, natural history of a disease, types of immunity),types of vaccines (monovalent and combined vaccines, live and killed, bacterial and viral, liquid and lyophilized), characteristics of an ideal vaccine, vaccines used in the National Immunization programmes (immunization schedule). Immunization service delivery and vaccine administration; General

Guidelines for vaccines administration (routine immunization and the national immunization schedule) Diluents and reconstitution of vaccines target population and groups for vaccination, cold chain and vaccine management (cold chain system, cold chain equipments, arrangement of vaccines inside cold chain equipments, read, record and interpret refrigerator temperature, handling cold chain emergencies ,health workers tasks for cold chain management, shake test technique, vaccine vial monitor interpretation, causes of vaccine wastage, ordering vaccine and logistics, procurement and storage of vaccines and equipment vitamin A supplementation, deworming, contraindications to immunizations, false contraindications, HIV infections and immunizations, policy on opened vials of vaccines to be used in subsequent immunization sessions, Immunization safety ,vaccine quality, safe injection practices and disposal, Adverse events following immunizations AEFIs (definition, causes, AEFIS to be reported, AEFIs investigation, communication for AEFIs, surveillance (objectives, components), reporting AEFIs, use of safety boxes, requirements for safe disposal of immunization waste, how to organize for an immunization session, conducting an immunization session, missed opportunities for immunizations (causes, prevention) , communication for an immunization programme (role of a communicator), community information and participation,. Immunization programme management; Introduction(problem solving approach and role of an EPI manager), planning immunization activities, immunization coverage, vaccine forecasting, vaccine wastage, financial management and sustainability, supervision by programme manager(role of supervision, supervision styles, monitoring of an immunization programme (implementation, coverage and drop out) and data management, and analysis, evaluation of an immunization programme (purpose of evaluation, steps for conducting an evaluation

Teaching Strategies

Interactive Lectures, group discussion, demonstration, Role plays, field trip

Teaching/Learning Resources

Text Books, Internet, Overhead projector, LCDs, Handouts, White Boards, White Board Marker

Module 13: Health Promotion

Code : HEP 1202
Hours : 20
Credits : 2

Pre-requisite(s): COM 1103

Module Competence

This module is designed to enable the learner apply principles of health promotion to prevent illness, promote health in an individual, family and community.

Module Outcomes

By the end of this module, the learner should:

1. Utilize the methods and channels of health promotion
2. Share targeted health messages to promote healthful living to patients/clients.

Module Units

Number	Name	Hours	
		Theory	Practical
1	Concepts and principles of health promotion	10	00
2	Health Education	10	00

Module Content

Health promotion; definitions, concepts, Ottawa Charter for Health Promotion, principles, aims, elements (good governance for health, healthy cities, healthy) methods of health promotion (audio visual aids, Role plays, songs, barazas, schools, women and men groups, youth groups), steps of an organized community dialogue. **Health Education**; definition, aims, objectives, principles, models (medical, motivation, social intervention), theories (behavioral, social learning, cognitive, humanist). Approaches to health education, steps in carrying out a health education programme, methods of health education, planning for a health education programme. Behavior change and communication, Information, Education and Communication (IEC), advocacy and networking, growth monitoring, home management, disease prevention, health seeking behaviour and compliance, behaviour change models (Health Belief Model), steps in behavior change, factors affecting behavior change.

Teaching Strategies

Interactive Lectures, Group Discussion, Field Trips

Module 3-4: Human Nutrition

Code : NUT 1201
 Hours : 10
 Credit : 1

Pre-requisite(s): ANP 1109

Module Competence

This module is designed to enable the learner promote health, prevent illness and manage nutritional disorders.

Module Outcomes

- By the end of this module, the learner should;
1. Promote healthy nutritional practices in the community
 2. Participate in prevention of nutrition-related illnesses

Module Units

Number	Name	Hours	
		Theory	Practical
1	Basic nutrition	04	00
2	Nutritional disorders.	06	00

Module Content

Basic Nutrition; classification of nutrients and their clinical importance, nutritional measurements (anthropometric measurements), meal plans (adults, children, adolescents, elderly, sick, pregnancy), infant feeding practices, breast feeding, types of feeding methods, food taboos and habits. **Nutritional disorders**; PEM, marasmus, iron deficiencies, vitamin deficiencies, obesity (causes, predisposing factors, clinical features, management and prevention) therapeutic diets (food modifications according to age and condition).

Module Teaching Strategy

Interactive Lecture, Group Discussion, Field Trips

Teaching/Learning Resources

Text Books, Internet, Overhead projector, LCDs, Handouts, White Boards, White Board Marker
 Pens, Chalk board