COURSE STRUCTURE

Bachelor of Science

Nursing

Under

Credit Structure

COURSESOFINSTRUCTIONWITHCREDITSTRUCTURE

Teaching Scheme

Semester-I

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits
		Theory	Tutorial	Practical	
FNB110401	COMMUNICATIVE ENGLISH	40	0	0	2
FNB110402	APPLIED ANATOMY & APPLIED PHYSIOLOGY	120	0	0	6
FNB110403	APPLIED SOCIOLOGY & APPLIED PSYCHOLOGY	120	0	0	6
FNB110404	NURSING FOUNDATIONS I	120	80	160	10

Semester-II

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits
		Theory	Tutorial	Practical	
FNB120401	APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS	100	0	0	5
FNB120402	NURSING FOUNDATIONS (I & II)	120	120	320	13
FNB120403	HEALTH/NURSING INFORMATICS & TECHNOLOGY	40	40	40	3

Semester-III

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits
		Theory	Tutorial	Practical	
FNB130401	APPLIED MICROBIOLOGY AND INFECTION CONTROL INCLUDING SAFETY	40	40	0	3
FNB130402	PHARMACOLOGY I AND PATHOLOGY I	40	0	0	2
FNB130403	ADULT HEALTH NURSING- I	140	40	480	14

PROGRAMME OUTCOMES (POs)

A student upon successful completion of Bachelor's degree in nursing should be able to

1. Assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative services.

2. Make independent decisions in nursing situations, protect the rights and facilitate Individuals and groups in pursuit of health, function in the hospital, community nursing services, and conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor and manager in a clinical / public health setting.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

1. Apply knowledge from physical, biological and behavioral sciences, medicine, including alternative systems and nursing in providing nursing care to individuals, families and communities.
2. Demonstrate understanding of life style and other factors, which affect health of individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
5. Utilise the latest trends and technology in providing health care.
6. Provide promotive, preventive and restorative health services in line with the national health policies and programs.
7. Practice within the framework of code of ethics and professional conduct and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and groups in clinical/ community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical / community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
13. Demonstrate awareness, interest and contribute towards advancement of self and of the profession

SYLLABUS

FNB110401-COMMUNICATIVE ENGLISH

PLACEMENT: I SEMESTER

THEORY: 2 Credits (40 hours)

DESCRIPTION: The course is designed to enable students to enhance their ability to speak and write the language (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experience.

COMPETENCIES: On completion of the course, the students will be able to

1. Identify the significance of Communicative English for healthcare professionals.
2. Apply the concepts and principles of English Language use in professional development such as pronunciation, vocabulary, grammar, paraphrasing, voice modulation, Spelling, pause and silence.
3. Demonstrate attentive listening in different hypothetical situations.
4. 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.
5. Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc.
6. Analyse the situation and apply critical thinking strategies.
7. Enhance expressions through writing skills.
8. Apply LSRW (Listening, Speaking, Reading and Writing) Skill in combination to learn, teach, educate and share information, ideas and results.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
I	3(T)	Identify thesignificance ofcommunicati veEnglish	**Communication** • Whatiscommunication? • What are communication roles of listeners,speakers, readers and writers as healthcareprofessionals?	• Definitions withexamples,il lustrations andexplanations • Identifyingcompet encies/communicat ivestrategiesinLSR W • Reading excerptson the above andinterpreting themthrough tasks	• Checking forunderstand ingthroughtas ks
II	5(T)	Describe conceptsand principles ofLanguage(Engli sh) use inprofessionaldev elopment suchas pronunciation,voc abulary,grammar, paraphrasing,voic e modulation,spelli ng, pauseandsilence	**IntroductiontoLSRGW** • L– Listening:Differenttypesoflistening • S– Speaking:UnderstandingConsonants,Vow els, Word and Sentence Stress,Intonation • R–Reading:Medicalvocabulary, • Gr – Grammar: Understanding tenses,linkers • W – Writing simple sentences and shortparagraphs– emphasisoncorrectgrammar	• Exercises onlistening to news,announcem ents,telephoneco nversations andinstructions fromothers • Informationonfund amentals ofSpeech –Consonant, Vowel,StressandIn tonation withtasksbasedont hese throughaudio/vide o andtexts • Reading a medicaldictionary/ glossaryof medical termswith matchingexercises • Informationontens es and basicconcepts of correctgrammar throughfill in the blanks,true/falsequ estions	• Through _checkyourund erstanding‘exer cises

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
III	5(T)	Demonstrateattentive listeningin differenthypothetical situations	**AttentiveListening** • Focusingonlisteningindifferentsituations – announcements,descriptions,narratives,instructions,discussions,demonstrations • ReproducingVerbatim • Listeningtoacademictalks/lectures • Listeningtopresentation	• Listening toannouncements,news,documentaries withtasks basedonlistening • With multiplechoice,Yes/Noandfill in the blankactivities	• Checkingindividuallyagainst correctanswers • Listening forspecificinformation • Listeningforoverall meaningandinstructions • Listeningtoattitudes andopinions • Listening toaudio, video andidentify keypoints
IV	9(T)	Converseeffectively,appropriately andtimely within thegiven context andthe individual orteam they arecommunicating with either face toface or othermeans	**Speaking–EffectiveConversation** • Conversationsituations– informal,formalandneutral • Factors influencing way of speaking – setting,topic,socialrelationship,attitudeand language • Greetings,introductions,requesting,askingfor and giving permission, speakingpersonallyand casual conversations • Askingforinformation,givinginstructionsanddirections • Agreeinganddisagreeing,givingopinions • Describingpeople,places,eventsandthings,narrating,reporting&reachingconclusions • Evaluatingandcomparing • Complaintsandsuggestions • Telephoneconversations • Deliveringpresentations	• Different types ofspeaking activitiesrelated to thecontent • Guided withprompts and freediscussions • Presentation techniques • Talking to peersandotheradults. • Talkingtopatientsand Patientattenders • Talkingtoother healthcareprofessionals • Classroomconversation • Scenariobased learning tasks	• Individual andgroup/peer assessmentthrough livespeakingtests • Presentation ofsituation inemergency androutine • Handoff • Reporting indoctors/nurses‘rounds • Casepresentation • Facetofaceoralcommunication • Speakingindividually(Nurse tonurse/patient/doctor) and toothers in thegroup • Telephonic talking

V	5(T)	Read, interpretand comprehendcontent in text,flow sheet,framework, figures, tables,reports,anecdotes	• **Reading** • Readingstrategies,readingnotesandmessages • Readingrelevantarticlesandnewsitems • Vocabulary for everyday activities,abbreviationsandmedicalvocabulary • Understandingvisuals,graphs,figuresandnoteson instructions • Readingreportsandinterpretingthem • Usingidiomsandphrases,spottingerrors,vocabularyforpresentations • RemedialGrammar	• Detailedtasksand exercisesonreading forinformation,inference andevaluation • Vocabulary gamesand puzzles formedicallexis • Grammaractivities	• Reading/summarizing/justifying answersorally • Patientdocument • Doctor'sprescription ofcare • Journal/news reading andinterpretation • Notes/Reports
VI	5(T)	Enhanceexpressionsthrough writingskills	**WritingSkills** • Writingpatienthistory • Notetaking • Summarising • Anecdotalrecords • Letterwriting • Diary/Journalwriting • Reportwriting • Paperwritingskills • Abstractwriting	• Writing tasks withfocuson taskfulfilment,coherence andcohesion,appropriatevocabulary andcorrectgrammar • Guided and freetasks • Different kinds ofletterwritingtasks	• Paper basedassessment bytheteacher/ traineragainst set banddescriptors • Presentation ofsituation • Documentation • Reportwriting • Paper writingskills • Verbatimre producing • Letterwriting • Resume/CV
VII	8(T)	Apply LSRWSkill incombination tolearn, teach,educate and shareinformation, ideasandresults	**LSRWSkills** • Criticalthinkingstrategiesforlisteningandreading • Oralreports,presentations • Writinginstructions,lettersandreports • Erroranalysis regardingLSRW	• Valuating differentoptions/multipleanswersandinterpretingdecisions throughsituational activities • Demonstration – individually and ingroups • GroupDiscussion • Presentation • RolePlay • Writingreports	• Consolidatedassessmentorallyand throughwrittentasks/exercises

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 8	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books-

1. Sidhu, "An Intensive Course in English – A remedial Work book", Orient Longman Publication
2. R C Jain, "English Grammar and Composition", Mac Milan Publication.

FNB110402- APPLIED ANATOMY

PLACEMENT:ISEMESTER

THEORY:3Credits(60hours)

DESCRIPTION:Thecourseisdesignedtoassiststudenttorecallandfurtheracquiretheknowledgeofthenormalstructureofhumanbody,identifyalterationinanatomicalstructurewithemphasisonclinicalapplicationtopracticenursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Describeanatomicalterms.
2. Explainthegeneralandmicroscopicstructure ofeachsystemofthebody.
3. Identifyrelativepositionsofthemajorbodyorgansaswellastheirgeneralanatomiclocations.
4. Exploretheeffectofalterationsinstructure.
5. Applyknowledgeofanatomicstructurestoanalyzeclinicalsituationsandtherapeuticapplications.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	8(T)	Define the termsrelative to theanatomicalposition Describe theanatomicalplanes Define and describethe terms used todescribemovements Organization ofhuman body andstructure of cell,tissuesmembranesandglands Describethetypesofcartilage Compareandcontrastthe features ofskeletal, smooth andcardiacmuscle	**Introductiontoanatomicaltermsandorganizationofthe humanbody** • Introduction to anatomical terms relative toposition– anterior,ventral,posteriordorsal,superior,inferior,median,lateral,proximal,distal, superficial, deep, prone, supine,palmarandplantar • Anatomical planes (axial/ transverse/horizontal, sagittal/vertical plane andcoronal/frontal/obliqueplane) • Movements(flexion,extension,abduction,adduction, medial rotation, lateral rotation,inversion, eversion, supination, pronation,plantar flexion, dorsal flexion andcircumduction • Cellstructure,Celldivision • Tissue– definition,types,characteristics,classification,location • Membrane,glands– classificationandstructure • Identifymajorsurfaceandbonylandmarksineach body region, Organization of humanbody • Hyaline,fibrocartilage,elasticcartilage • Featuresofskeletal,smoothandcardiacmuscle • Applicationandimplicationinnursing	• Lecture cumDiscussion • Useofmodels • Videodemonstration • Use ofmicroscopicslides • Lecture cumDiscussion • Video/Slides • Anatomical Torso	• Quiz • MCQ • Shortanswer
Unit	**Time (Hrs)**	**Learning Outcomes**	**Content**	**Teaching/ Learning Activities**	**Assessment Methods**

II	6(T)	Describethestructureofrespiratorysystem Identifythemuscles of respiration andexamine theircontribution to themechanism ofbreathing	**TheRespiratorysystem** • Structureoftheorgansofrespiration • Musclesofrespiration • Applicationandimplicationinnursing	• Lecture cumDiscussion • Models • Video/Slides	• Shortanswer • Objectivetype
IV	6(T)	Describethestructureof circulatory andlymphaticsystem.	**TheCirculatoryandLymphaticsystem** • Structureofbloodcomponents,bloodvessels –ArterialandVenoussystem • Positionofheartrelativetotheassociatedstructures • Chambers ofheart,layersofheart • Heartvalves,coronaryarteries • Nerveandblood supplytoheart • Lymphatictissue • VeinsusedforIVinjections • Applicationand implicationinnursing	• Lecture • Models • Video/Slides	• Shortanswer • MCQ
V	4(T)	Identify the majorendocrine glands anddescribethestructureofendocrineGlands	**TheEndocrinesystem** • StructureofHypothalamus,PinealGland,Pituitary gland, Thyroid, Parathyroid,Thymus,PancreasandAdrenal glands	• Lecture • Models/charts	• Shortanswer • Objectivetype
VI	4(T)	Describethestructureof various sensoryorgans	**TheSensoryorgans** • Structureofskin, eye,ear,noseandtongue • Applicationandimplicationsinnursing	• Lecture • Explain withVideo/models/charts	• Shortanswer • MCQ

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods

VII	10(T)	Describe anatomicalpositionandstructureofbonesandjoints Identify major bonesthatmakeupthe axialand appendicularskeleton Classifythejoints Identify theapplication andimplications innursing Describethestructureofmuscle Apply the knowledgein performing nursingprocedures/skills	**TheMusculoskeletalsystem:** **TheSkeletalsystem** • Anatomicalpositions • Bones–types,structure,growthandossification • Axialandappendicularskeleton • Joints–classification,majorjointsandstructure • Applicationandimplicationsinnursing **TheMuscularsystem** • Typesandstructureofmuscles • Musclegroups–musclesofthehead, neck,thorax, abdomen, pelvis, upper limb andlowerlimbs • Principalmuscles–deltoid,biceps,triceps,respiratory, abdominal, pelvic floor, pelvicfloor muscles, gluteal muscles and vastuslateralis Majormusclesinvolvedinnursingprocedures	• Review–discussion • Lecture • Discussions • Explain usingcharts, skeletonandloosebonesandtorso • Identifyingmusclesinvolved innursingprocedures inlab	• Shortanswer • Objectivetype
VIII	5(T)	Describethestructureofrenal system	**TheRenalsystem** • Structureofkidney,ureters,bladder,urethra • Applicationand implicationinnursing	• Lecture • Models/charts	• MCQ • Shortanswer
IX	5(T)	Describethestructureof reproductivesystem	**TheReproductivesystem** • Structureofmalereproductiveorgans • Structureoffemalereproductiveorgans • Structureofbreast	• Lecture • Models/charts	• MCQ • Shortanswer
X	6(T)	Describe the structureof nervous systemincluding thedistribution of thenerves,nerveplexuses Describe theventricularsystem	**TheNervoussystem** • ReviewStructure ofneurons • CNS,ANSandPNS(Central,autonomicandperipheral) • Structureofbrain,spinalcord,cranialnerves,spinal nerves, peripheral nerves, functionalareasofcerebralcortex • Ventricularsystem–formation,circulation,anddrainage • Applicationandimplicationinnursing	• Lecture • Explain withmodels • Videoslides	• MCQ • Shortanswer

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Chaurasia B. D , " Human Anatomy " , vol 1-5 CBS Publishers
2. Jackson Sheils, "Anatomy and Physiology for Nurses ", Prism Books Pvt Ltd , Bangalore, 9 th Edition

FNB110402- APPLIED PHYSIOLOGY

PLACEMENT: I SEMESTER

THEORY: 3 Credits (60 hours)

DESCRIPTION: The course is designed to assists student to acquire comprehensive knowledge of the normal functions ofthe organ systems of the human body to facilitate understanding of physiological basis of health, identify alteration infunctionsandprovidethestudentwiththenecessaryphysiologicalknowledgetopracticenurs ing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Developunderstandingofthenormal functioningofvariousorgansystemsofthebody.
2. Identifytherelativecontributionofeachorgansystemtowardsmaintenanceofhomeostasis.
3. Describetheeffectofalterations infunctions.
4. Applyknowledgeofphysiologicalbasistoanalyzeclinicalsituationsandtherapeuticapplications.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActiv ities	Assessment Methods

I	4(T)	Describe thephysiology of cell,tissues,membranesandglands	**GeneralPhysiology–Basicconcepts** • Cellphysiologyincludingtransportationa crosscell membrane • Body fluid compartments, Distribution oftotalbodyfluid,intracellularandextracellular compartments, major electrolytes andmaintenanceofhomeostasis • Cellcycle • Tissue–formation,repair • Membranesandglands –functions • Applicationandimplicationinnursing	• Review–discussion • Lecture cumDiscussion • Videodemonstrations	• Quiz • MCQ • Shortanswer
II	6(T)	Describe thephysiology andmechanism ofrespiration Identify themusclesofrespiration andexamine theircontributiontothemechanism ofbreathing	**Respiratorysystem** • Functionsofrespiratoryorgans • Physiologyofrespiration • Pulmonarycirculation–functionalfeatures • Pulmonaryventilation,exchangeofgases • Carriageofoxygenandcarbon-dioxide,Exchangeofgasesintissue • Regulationofrespiration • Hypoxia,cyanosis,dyspnea,periodicbreathing • Respiratorychangesduringexercise • Applicationandimplicationinnursing	• Lecture • Videoslides	• Essay • Shortanswer • MCQ
III	8(T)	Describe thefunctionsofdigestivesystem	**Digestivesystem** • Functionsoftheorgansofdigestivetract • Saliva–composition,regulation ofsecretionand functionsofsaliva • Composition and function of gastric juice,mechanismandregulationofgastricsecretion • Compositionofpancreaticjuice,function,regulation ofpancreaticsecretion • Functionsofliver, gallbladderandpancreas • Compositionofbileandfunction • Secretionandfunction ofsmallandlargeintestine • Movementsofalimentarytract • Digestioninmouth,stomach,smallintestine,largeintestine,absorption offood	• Lecture cumDiscussion • Videoslides	• Essay • Shortanswer • MCQ

III	8(T)	Describe thefunctionsofdigestivesystem	**Digestivesystem** • Functionsoftheorgansofdigestivetract • Saliva–composition,regulation ofsecretionand functionsofsaliva • Composition and function of gastric juice,mechanismandregulationofgastricsecretion • Compositionofpancreaticjuice,function,regulation ofpancreaticsecretion • Functionsofliver, gallbladderandpancreas • Compositionofbileandfunction • Secretionandfunction ofsmallandlargeintestine • Movementsofalimentarytract • Digestioninmouth,stomach,smallintestine,largeintestine,absorption offood • Applicationandimplicationsinnursing	• Lecture cumDiscussion • Videoslides	• Essay • Shortanswer • MCQ
IV	6(T)	Explain thefunctionsofthe heart, andphysiology ofcirculation	**CirculatoryandLymphaticsystem** • Functionsofheart,conductionsystem, cardiac cycle, Stroke volume and cardiacoutput • Blood pressureand Pulse • Circulation– principles,factorsinfluencingblood pressure, pulse • Coronarycirculation,Pulmonaryandsystemiccirculation • Heartrate–regulationofheartrate • Normalvalueandvariations • Cardiovascularhomeostasisinexerciseandposture Applicationandimplicationinnursing	• Lecture • Discussion • Video/Slides	• Shortanswer • MCQ
V	5(T)	Describe thecomposition andfunctionsofblood	**Blood** • Blood–Functions,Physicalcharacteristics • Formationofbloodcells • Erythropoiesis– FunctionsofRBC,RBClifecycle • WBC–types,functions • Platelets– Functionandproductionofplatelets • Clottingmechanismofblood,clottingtime,bleeding time, PTT • Hemostasis–	• Lecture • Discussion • Videos	• Essay • Shortanswer • MCQ

			roleofvasoconstriction,plateletplug formation in hemostasis, coagulationfactors, intrinsic and extrinsic pathways ofcoagulation • Bloodgroupsandtypes • Functions of reticuloendothelial system,immunity • Applicationinnursing		
VI	5(T)	Identifythemajore ndocrine glandsand describe theirfunctions	**TheEndocrinesystem** • FunctionsandhormonesofPinealGland,Pit uitary gland, Thyroid, Parathyroid,Thymus, PancreasandAdrenalglands. • Otherhormones • Alterationsindisease • Applicationandimplicationinnursing	• Lecture • Explainusing charts	• Shortanswer • MCQ
VII	4(T)	Describe thestructure ofvarious sensoryorgans	**TheSensoryOrgans** • Functionsofskin • Vision,hearing, tasteandsmell • Errors ofrefraction,agingchanges • Applicationandimplicationsinnursing	• Lecture • Video	• Shortanswer • MCQ
VIII	6(T)	Describe thefunctions of bones, joints,various types ofmuscles, itsspecial propertiesand nervessupplying them	**Musculoskeletalsystem** Bones – Functions, movements of bones ofaxialandappendicularskeleton,Bonehealing • Jointsandjointmovements • Alterationofjointdisease • PropertiesandFunctionsofskeletalmuscles– mechanismofmusclecontraction • Structureandpropertiesofcardiacmusclesan dsmooth muscles • Applicationandimplicationinnursing	• Lecture • Discussion • Videopresentation	• Structuredessay • Shortanswer • MCQ
IX	4(T)	Describe thephysiolog y ofrenalsystem	**Renalsystem** • Functionsofkidneyinmaintainingh omeostasis • GFR • Functionsofureters,bladderandurethra • Micturition • Regulationofrenalfunction • Applicationandimplicationinnursing	• Lecture • Chartsandmodels	• Shortanswer • MCQ

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
X	4(T)	Describe thestructure ofreproducti vesystem	**TheReproductivesystem** • Femalereproductivesystem– Menstrualcycle, function and hormones of ovary,oogenesis, fertilization, implantation,Functionsofbreast • Malereproductivesystem– Spermatogenesis,hormonesanditsfunctions,semen • Applicationandimplicationinprovidingnursingcare	• Lecture • Explain usingcharts, models,specimens	• Shortanswer • MCQ
XI	8(T)	Describe thefunctionsofbrain, physiologyof nerve stimulus,reflexes, cranialandspinalnerves	• **Nervoussystem** • Overviewofnervoussystem • Reviewoftypes,structureandfunctionsofneurons • Nerveimpulse • Review functionsofBrain-Medulla,Pons,Cerebrum, Cerebellum • SensoryandMotorNervoussystem • PeripheralNervoussystem • AutonomicNervoussystem • LimbicsystemandhighermentalFunctions-Hippocampus,Thalamus,Hypothalamus • Vestibularapparatus • Functionsofcranialnerves • Autonomicfunctions • PhysiologyofPain-somatic, visceralandreferred • Reflexes • CSFformation,composition,circulationofCSF, blood brain barrier and blood CSFbarrier • Applicationandimplicationinnursing	• Lecture cumDiscussion • Videoslides	• Brief structuredessays • Shortanswer • MCQ • Criticalreflection

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

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COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Chaurasia B. D , " Human Physiology " , vol 1-5 CBS Publishers
2. Jackson Sheils, "Anatomy and Physiology for Nurses ", Prism Books Pvt Ltd , Bangalore, 9 th Edition
3. Boris Sergeev, "Physiology in Health and Illness", 7th edition

FNB110403- APPLIED SOICIOLOGY

PLACEMENT:ISEMESTER

THEORY:3Credits(60hours)

DESCRIPTION: Thiscourseisdesignedtoenablethestudentstodevelop understandingaboutbasicconceptsofsociologyanditsapplication in personaland communitylife, health, illnessand nursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Identifythescopeandsignificanceofsociologyin nursing.
2. Applytheknowledgeofsocialstructureanddifferentcultureinasocietyinidentifying socialneedsofsickclients.
3. Identifytheimpactofculture onhealthandillness.
4. Developunderstandingabouttypesoffamily,marriageanditslegislation.
5. Identifydifferenttypesofcaste,class,socialchangeanditsinfluence onhealthandhealthpractices.
6. Developunderstandingaboutsocialorganizationanddisorganizationandsocialproblemsin India.
7. Integratetheknowledgeofclinicalsociologyanditsusesincrisisintervention.

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	1(T)	Describethescopeandsignificanceofsociologyinnursing	**Introduction** • Definition,natureandscopeofsociology • Significanceofsociologyin nursing	• Lecture • Discussion	• Essay • Shortanswer
II	15(T)	Describe theindividualization, Groups,processesof Socialization, socialchange and itsimportance	**Socialstructure** • Basicconceptofsociety,community,association and institution • Individualandsociety • Personaldisorganization • Social group – meaning, characteristics, andclassification. • Socialprocesses–definitionandforms,Co-operation,competition,conflict,accommodation,assimilation,isolation • Socialization – characteristics, process,agenciesofsocialization • Social change – nature, process, and role ofnurse • Structureandcharacteristicsofurban,ruralandtribalcommunity. • Major health problems in urban, rural and tribalcommunities • Importanceofsocialstructureinnursingprofession	• Lecture cumDiscussion	• Essay • Shortanswer • Objectivetype
III	8(T)	Describe culture andits impact on healthanddisease	**Culture** • Nature,characteristicandevolutionofculture • Diversityanduniformityofculture • Differencebetweencultureandcivilization • Cultureandsocialization • Transculturalsociety • Culture,Modernizationanditsimpactonhealthanddisease	• Lecture • Paneldiscussion	• Essay • Shortanswer

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ Learning Activities	Assessment Methods
IV	8(T)	Explain family,marriage andlegislationrelatedtomarriage	**FamilyandMarriage** • Family– characteristics,basicneed,typesandfunctionsof family • Marriage – forms of marriage, social customrelating tomarriageandimportanceofmarriage • LegislationonIndianmarriageandfamily. • Influenceofmarriageand familyon healthandhealth practices	• Lecture	• Essay • Shortanswer • Case studyreport
V	8(T)	Explain differenttypes of caste andclasses in societyanditsinfluenceonhealth	**Socialstratification** • Introduction– Characteristics&formsofstratification • Functionofstratification • Indiancastesystem–originandcharacteristics • Positiveandnegativeimpactofcasteinsociety. • Classsystemandstatus • Socialmobility-meaningandtypes • Race–concept,criteriaofracialclassification • Influenceofclass,casteandracesystemonhealth.	• Lecture • Paneldiscussion	• Essay • Shortanswer • Objectivetype
VI	15(T)	Explain socialorganization, disorganization,social problems androle of nurse inreducing socialproblems	**Socialorganizationanddisorganization** • Socialorganization– meaning,elementsandtypes • Voluntaryassociations • Social system – definition, types, role andstatusasstructuralelementofsocialsystem. • Interrelationshipofinstitutions • Socialcontrol– meaning,aimsandprocessofsocialcontrol • Socialnorms,moralandvalues • Social disorganization – definition, causes,Controland planning • Majorsocialproblems– poverty,housing,foodsupplies, illiteracy, prostitution, dowry, Childlabour, child abuse, delinquency, crime,substanceabuse,HIV/AIDS,COVID-19 • Vulnerablegroup– elderly,handicapped,minorityandothermarginal group. • Fundamentalrightsofindividual,womenandchildren	• Lecture • Groupdiscussion • Observational visit	• Essay • Shortanswer • Objectivetype • Visitreport

			• Roleofnursein reducingsocialproblemandenhancecoping • SocialwelfareprogramsinIndia		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ Learning Activities	Assessment Methods
VII	5(T)	Explain clinicalsociology and itsapplication in thehospital andcommunity	**Clinicalsociology** • Introductiontoclinicalsociology • Sociologicalstrategiesfordevelopingservicesfortheabused • Useofclinicalsociologyincrisisintervention	• Lecture, • Groupdiscussion • Roleplay	• Essay • Shortanswer

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Dr. Rebecca Shailesh Jadhav, Textbooks of Applied Sociology, Jain publications, 1st edition, 2022

2. Prem sharma, Applied Sociology, Lotus publications, 1st edition, 2022

FNB110403-APPLIED PSYCHOLOGY

PLACEMENT:ISEMESTER

THEORY:3Credits(60Hours)

DESCRIPTION: Thiscourseisdesignedtoenablethestudentstodevelopunderstandingabou tbasicconceptsofpsychology and its application in personal and community life, health, illness and nursing. It further provides studentsopportunitytorecognizethesignificanceandapplicationofsoftskillsandself-empowermentin thepracticeofnursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Identifytheimportanceofpsychologyinindividualandprofessionallife.
2. Developunderstanding ofthebiologicalandpsychologicalbasisofhumanbehaviour.
3. Identifytheroleofnurseinpromotingmentalhealthanddealingwithalteredpersonality.
4. Performtheroleofnursesapplicabletothepsychologyofdifferent agegroups.
5. Identifythecognitiveandaffectiveneedsofclients.
6. Integratetheprinciplesofmotivation andemotion inperformingtheroleofnurseincaringforemotionallysickclient.
7. Demonstratebasicunderstandingofpsychologicalassessmentandnurse‘srole.
8. Applytheknowledgeofsoft skillsinworkplaceandsociety.
9. Applytheknowledgeofself-empowermentin workplace,societyandpersonallife.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
I	2(T)	Describe scope,branches andsignificance ofpsychology innursing	**Introduction** • MeaningofPsychology • Developmentofpsychology– Scope,branchesandmethods ofpsychology • Relationshipwithothersubjects • Significanceofpsychologyinnursing • Appliedpsychologytosolveeverydayissues	• Lecture cumDiscussion	• Essay • Shortanswer
II	4(T)	Describebiologyofhumanbehaviour	**Biologicalbasisofbehavior–Introduction** • Bodymindrelationship • Geneticsandbehaviour • Inheritanceofbehaviour • Brainandbehaviour. • Psychologyandsensation–sensoryprocess –normalandabnormal	• Lecture • Discussion	• Essay • Shortanswer
III	5(T)	Describe mentallyhealthypersonanddefensemechanisms	**Mentalhealthandmentalhygiene** • Conceptofmental healthand mentalhygiene • Characteristicofmentallyhealthyperson • Warningsignsofpoormentalhealth • Promotiveandpreventivementalhealthstrategiesandservices • Defensemechanismanditsimplication • Frustrationandconflict– typesofconflictsandmeasurementstoovercome • Role of nurse in reducing frustration andconflict and enhancing coping • Dealingwithego	• Lecture • Casediscussion • Roleplay	• Essay • Shortanswer • Objectivetype

IV	7(T)	Describepsychology ofpeople in differentagegroups androleofnurse	**Developmentalpsychology** • Physical, psychosocial and cognitivedevelopment across life span – Prenatalthrough early childhood, middle to latechildhood through adolescence, early andmid-adulthood, late adulthood, death anddying • Roleofnurseinsupportingnormalgrowthand developmentacrossthelifespan • Psychological needs of various groups inhealth and sickness – Infancy, childhood,adolescence,adulthoodandolderadult • Introduction to child psychology and role ofnurseinmeetingthepsychologicalneedsof CHILDREN. • Psychologyofvulnerableindividuals– challenged,women,sicketc. • Roleofnursewith vulnerablegroups	• Lecture • Group • discussion	• Essay • Shortanswer
V	4(T)	Explainpersonality and role of nurse inidentification andimprovement inalteredpersonality	**Personality** • Meaning,definitionofpersonality • Classificationofpersonality • Measurementandevaluationofpersonality –Introduction • Alterationinpersonality • Roleofnursein identificationofindividualpersonality and improvement in alteredpersonality	• Lecture • Discussion • Demonstration	• Essayandshortanswer • Objectivetype
VI	16(T)	Explain cognitiveprocess and theirapplications	**Cognitiveprocess** • **Attention**– definition,types,determinants,duration,degreeandalterationinattention • **Perception –** Meaning of Perception,principles,factoraffectingperception, • **Intelligence** – Meaning of intelligence – Effect of heredity and environment inintelligence, classification, Introduction tomeasurement of intelligence tests – Mentaldeficiencies • **Learning –** Definition of learning, types oflearning, Factors influencing learning – Learningprocess, Habitformation • **Memory**- meaningandnatureofmemory,factors influencing memory, methods toimprovememory,	• Lecture • Discussion	• Essayandshortanswer • Objectivetype

			forgetting • **Thinking** – types, level, reasoning andproblemsolving. • **Aptitude** – concept, types, individualdifferencesandvariability • Psychometricassessmentofcognitivep rocesses–Introduction • Alterationincognitiveprocesses		
VII	6(T)	Describemotivatio n,emotion, attitudeandroleofn urseinemotionally sickclient	**Motivationandemotionalprocesses** • **Motivation** – meaning, concept, types,theoriesofmotivation,motivationcy cle,biological andspecialmotives • **Emotions –** Meaning of emotions,development of emotions, alteration ofemotion, emotions in sickness – handlingemotionsin selfand other • Stress and adaptation – stress, stressor,cycle,effect,adaptationandcopi ng • **Attitudes** – Meaning of attitudes, nature,factor affecting attitude, attitudinal change,Roleofattitudein healthandsickness • Psychometricassessmentofemotionsandat titude– Introduction • Roleofnurseincaring foremotionallysickclient	• Lecture • Groupdiscussion	• Essayandshorta nswer • Objectivetype
VIII	4(T)	Explainpsychologic alassessmentandtest sand roleofnurse	**Psychologicalassessmentandtests– introduction** • Types,development,characteristics, principles,uses, interpretation • Roleofnurseinpsychologicalassessment	• Lecture • Discussion • Demonstration	• Shortanswer • Assessment ofpractice
IX	10(T)	Explain concept ofsoft skill and itsapplication in workplaceandsocie ty	**Applicationofsoftskill** • Conceptofsoftskill • Types of soft skill – visual, aural andcommunicationskill • Thewayofcommunication • Buildingrelationshipwithclientandso ciety • **Interpersonal Relationships (IPR):**Definition,Types,andPurposes,Inte rpersonalskills,Barriers,Strategiestooverc omebarriers • Survivalstrategies–	• Lecture • Groupdiscussion • Roleplay • Refer/CompleteS oftskillsmodule	• Essayandshorta nswer

			managingtime,copingstress,resilience, work–lifebalance • Applyingsoftskilltoworkplaceandsociety – Presentation skills, social etiquette,telephone etiquette, motivational skills,teamwork etc. • Useofsoftskillinnursing		
X	2(T)	Explain self-empowerment	**Self-empowerment** • Dimensionsofself-empowerment • Self-empowermentdevelopment • Importanceofwomen'sempowermentinsociety • Professional etiquette and personalgrooming • Roleofnurseinempoweringothers	• Lecture • Discussion	• Shortanswer • Objectivetype

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos9	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Bhatia B. D, &Craig :- Elements of Psychology & Mental Hygiene
2. Morgan C. T, &King :- Introduction to Psychology, VII the edition, Megrow bill international.
3. Robert C. Calfee : - Human Experimental Psychology

FNB110404- NURSING FOUNDATION-I

PLACEMENT:ISEMESTER
THEORY:6Credits(120 hours)

PRACTICUM: SkillLab:2Credits(80hours)andClinical:2Credits(160hours)

DESCRIPTION: This courseisdesignedtohelpnovice nursingstudents developknowledge andcompetencies requiredtoprovideevidence-based, comprehensivebasicnursing careforadultpatients,usingnursingprocessapproach.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Developunderstandingabouttheconceptofhealth,illnessandscopeofnursingwithinhealthcareservices.
2. Applyvalues,codeofethicsandprofessionalconductinprofessional life.
3. Applytheprinciplesandmethodsofeffectivecommunicationinestablishingcommunicationlinkswithpatients,familiesand otherhealthteam members.
4. Developskillinrecordingandreporting.
5. Demonstratecompetencyinmonitoringanddocumentingvitalsigns.
6. Describethefundamentalprinciples andtechniquesofinfectioncontrolandbiomedicalwastemanagement.
7. Identifyandmeetthecomfortneedsofthepatients.
8. Performadmission,transfer,anddischargeofapatientundersupervisionapplyingtheknowledge.
9. Demonstrateunderstandingandapplicationofknowledgeincaringforpatientswithrestrictedmobility.
10. Performfirstaidmeasuresduringemergencies.
11. Identifytheeducationalneedsofpatientsanddemonstratebasicskillsofpatienteducation.

***MandatoryModuleusedinTeaching/Learning:**

FirstAid:40 Hours(includingBasicCPR)

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
I	5(T)	Describe theconcept of healthandillness	**Introductiontohealthandillness** • Concept of Health – Definitions (WHO),Dimensions • Maslow'shierarchyofneeds • Health–Illnesscontinuum • Factorsinfluencinghealth • Causesandriskfactorsfordevelopingillnesses • Illness–Types,illnessbehavior • Impactofillnessonpatientandfamily	• Lecture • Discussion	• Essay • Shortanswer • Objective type
II	5(T)	Describe the levelsofillnesspreventionandcare,healthcareservices	**HealthCareDeliverySystems –** ***IntroductionofBasicConcepts &Meanings*** • LevelsofIllnessPrevention–Primary(Health Promotion), Secondary andTertiary • Levels of Care – Primary, Secondary andTertiary • Types of health care agencies/ services – Hospitals, clinics, Hospice, rehabilitationcentres,extendedcarefacilities • Hospitals –Types, Organizationand Functions • Healthcareteamsinhospitals–membersandtheirrole	• Lecture • Discussion	• Essay • Shortanswer • Objective type
III	12(T)	Tracethehistoryof Nursing Explain theconcept, nature andscopeofnursing Describe values,code of ethics andprofessionalconductfornursesin India	**HistoryofNursingandNursingasaprofession** • HistoryofNursing,HistoryofNursinginIndia • ContributionsofFlorenceNightingale • Nursing – Definition – Nurse, Nursing,Concepts,philosophy,objectives,Characteristics, nature and Scope ofNursing/ Nursing practice, Functions ofnurse,Qualitiesofanurse,Categoriesofnursingpersonnel • Nursingasaprofession–definition andcharacteristics/criteria ofprofession • Values – Introduction – meaning andimportance	• Lecture • Discussion • Casediscussion • Roleplays	• Essay • Shortanswers • Objective type

			• Codeofethicsandprofessionalconductfor nurses– Introduction		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
IV	8(T) 3(SL)	Describe the process,principles, and typesofcommunication Explain therapeutic,non-therapeutic andprofessionalcommunication Communicateeffectively withpatients, theirfamiliesandteammembers	**CommunicationandNursePatientRelationship** • Communication–Levels,ElementsandProcess, Types, Modes, Factorsinfluencingcommunication • Methods of effectivecommunication/therapeuticcommunicationtechniques • Barrierstoeffectivecommunication/non-therapeuticcommunicationtechniques • Professionalcommunication • HelpingRelationships(NursePatientRelationship)–PurposesandPhases • Communicatingeffectivelywithpatient,familiesand teammembers • Maintaining effective human relations andcommunication with vulnerable groups(children,women,physicallyandmentallychallengedand elderly)	• Lecture • Discussion • Role play and videofilm on TherapeuticCommunication	• Essay • Shortanswer • Objective type
V	4(T) 2(SL)	Describe thepurposes, types andtechniquesofrecording andreporting Maintain recordsand reportsaccurately	**DocumentationandReporting** • Documentation–Purposes ofReportsandRecords • Confidentiality • TypesofClientrecords/CommonRecord-keepingforms • Methods/Systems ofdocumentation/Recording	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objective type

			• Guidelinesfordocumentation • Do'sandDon'tsofdocumentation/Legalguidelinesfor Documentation/Recording • Reporting– Changeofshiftreports,Transferreports,Incidentreports		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
VI	15(T) 20(SL)	Describe principlesand techniques ofmonitoring andmaintaining vitalsigns Assess and recordvitalsignsaccurately	**Vitalsigns** • Guidelinesfortakingvitalsigns • *Bodytemperature*– o Definition,Physiology,Regulation, Factorsaffectingbodytemperature o Assessmentofbodytemperature– sites,equipmentand technique o Temperature alterations – Hyperthermia, Heat Cramps, HeatExhaustion,Heatstroke,Hypothermia o Fever/Pyrexia– Definition,Causes,Stages,Types • NursingManagement o HotandColdapplications • *Pulse*: o Definition,PhysiologyandRegulation, Characteristics,Factorsaffectingpulse o Assessmentofpulse– sites,equipmentand technique o Alterationsinpulse • *Respiration:* o Definition, Physiology and Regulation,Mechanicsofbreathing,Characteristics, Factorsaffectingrespiration o Assessmentofrespirations–technique o ArterialOxygensaturation o Alterationsinrespiration	• Lecture • Discussion • Demonstration &Re-demonstration	• Essay • Shortanswer • Objective type • Document thegivenvalue softemperature,pulse, andrespiration inthe graphicsheet • OSCE

			• *Bloodpressure*: o Definition,PhysiologyandRegulation, Characteristics,FactorsaffectingBP o Assessment of BP – sites, equipmentand technique, Common Errors in BPAssessment o AlterationsinBloodPressure • DocumentingVitalSigns		
VII	3(T)	Maintain equipmentandlinen	**EquipmentandLinen** • Types–Disposablesandreusable oLinen,rubber goods,glassware,metal,plastics,furniture • Introduction–Indent,maintenance,Inventory		

Unit	**Time (Hrs)**	**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**

VIII	10(T) 3(SL)	Describe the basicprinciplesandtechniquesofinfection controland biomedicalwastemanagement	**IntroductiontoInfectionControlinClinicalsettingInfection** • Natureofinfection • Chainofinfection • Typesofinfection • Stagesofinfection • Factorsincreasingsusceptibilitytoinfection • Body defenses against infection – Inflammatoryresponse&Immuneresponse • Healthcareassociatedinfection(Nosocomial infection) **IntroductoryconceptofAsepsis– Medical&Surgicalasepsis** ***Precautions*** • HandHygiene • (HandwashinganduseofhandRub) • Use of Personal Protective Equipment(PPE) • Standardprecautions ***BiomedicalWastemanagement*** • Types ofhospitalwaste,wastesegregationandhazards–Introduction	• Lecture • Discussion • Demonstration • Observation ofautoclaving andother sterilizationtechniques • Video presentationon medical &surgicalasepsis	• Essay • Shortanswer • Objective type

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
IX	15(T) 15(	Identify and meetthe comfort needsofthepatient	***Comfort,Rest &Sleepand Pain*** • Comfort	• Lecture • Discussion	• Essay • Shortanswer

	SL)	s	○ FactorsInfluencingComfort ○ Typesofbeds includinglatestbeds,purposes&bed making ○ Therapeuticpositions ○ Comfortdevices • SleepandRest ○ Physiologyofsleep ○ Factorsaffectingsleep ○ PromotingRestandsleep ○ SleepDisorders • Pain(Discomfort) ○ Physiology ○ Commoncauseofpain ○ Types ○ Assessment– painscalesandnarcoticscales ○ Pharmacological and Non-pharmacological pain relievingmeasures– Useofnarcotics,TENSdevices,PCA ○ Invasivetechniquesofpain management ○ Anyothernewermeasures ○ CAM(Complementary&Alternativehealing Modalities)	• Demonstration &Re-demonstration	• Objective type • OSCE
X	5(T) 3(SL)	Describe theconcept of patientenvironment	**PromotingSafetyinHealthCareEnvironment** • Physical environment – Temperature,Humidity,Noise,Ventilation, Light,Odor,Pestcontrol • ReductionofPhysicalhazards– fire,accidents • FallRiskAssessment • Roleofnurseinprovidingsafeandcleanenvironment • Safetydevices– ○ Restraints – Types, Purposes,Indications, Legal Implications andConsent,ApplicationofRestraints- SkillandPracticeguidelines ○ OtherSafetyDevices– Siderails,Grabbars, Ambu alarms, non-skid slippers	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objective type
Unit	Time (Hrs)	Learning Outcomes	**Content**	Teaching/ Learning Activities	Assessment Methods

XI	6(T) 2(SL)	Explainandperformadmission, transfer,and discharge of apatient	**HospitalAdmissionanddischarge** • AdmissiontothehospitalUnitandpreparationofunit o Admissionbed o Admissionprocedure o Medico-legalissues o Rolesand Responsibilitiesofthenurse • Dischargefromthehospital o Types– Planneddischarge,LAMAandAbscond, Referralsandtransfers o DischargePlanning o Dischargeprocedure o Medico-legalissues o RolesandResponsibilitiesofthenurse o Careoftheunitafterdischarge	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objective type
XII	8(T) 10(SL)	Demonstrateskillincaring for patientswith restrictedmobility	**MobilityandImmobility** • Elements of Normal Movement,Alignment&Posture,Joint Mobility,Balance,CoordinatedMovement • PrinciplesofbodymechanicsFactorsaffectingBodyAlignmentandactivity • Exercise–Typesandbenefits • EffectsofImmobility • MaintenanceofnormalBodyAlignmentandActivity • AlterationinBodyAlignmentandmobility • NursinginterventionsforimpairedBodyAlignment and Mobility – assessment,types,devicesused, method o Rangeofmotionexercises o Musclestrengtheningexercises o Maintainingbodyalignment–positions o Moving o Lifting o Transferring o Walking • Assistingclientswithambulation • CareofpatientswithImmobilityusingNursingprocessapproach • Careofpatientswithcastsandsplints	• Lecture • Discussion • Demonstration& Re-demonstration	• Essay • Shortanswer • Objective TYPE • OSCE
Unit	Time (Hrs)	Learning Outcomes	**Content**	Teaching/ Learning Activities	Assessment Methods

XIII	4(T) 2(SL)	Describe theprinciplesandpractice of patienteducation	**Patienteducation** • PatientTeaching–Importance,Purposes,Process • Integratingnursingprocessinpatientteaching	• Discussion • Roleplays	• Essay • Shortanswer • Objective type
XIV	20(T) 20(SL)	Explainandapplyprinciples of FirstAid duringemergencies	**FirstAid*** • Definition,BasicPrinciples,Scope&Rules • FirstAidManagement ○ Wounds,Hemorrhage&Shock ○ MusculoskeletalInjuries–Fractures, Dislocation,Muscleinjuries ○ TransportationofInjuredpersons ○ RespiratoryEmergencies&BasicCPR ○ Unconsciousness ○ ForeignBodies–Skin,Eye,Ear,Nose, Throat&Stomach ○ Burns&Scalds ○ Poisoning,Bites&Stings ○ Frostbite&EffectsofHeat ○ CommunityEmergencies	• Lecture • Discussion • Demonstration &Re-demonstration • Modulecompletion • National DisasterManagementAuthority(NDMA) /IndianRedCrossSociety (IRCS)FirstAid module	• Essay • Shortanswer • Objective type • OSCE

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos9	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos10	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos11	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Barbara Kosler et al, " Fundamentals of Nursing concepts and procedure", Addison Welsloy publishing Co., 13 th edition
2. Potter and perry, "Fundamentals of Nursing concepts-process and practice", C.V Mosby
3. First Aid Manual, The authorized manual of St. John"s Ambulance, dorlingKindersly

FNB120401- APPLIED BIOCHEMISTRY

PLACEMENT:IISEMESTER

THEORY:2credits (40hours)(includeslabhoursalso)

DESCRIPTION: Thecourseisdesigned toassistthestudentstoacquireknowledgeofthenormalbiochemicalcompositionandfunctioning ofhuman body,itsalterationsindiseaseconditionsandtoapplythisknowledgeinthepractice ofnursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Describethemetabolismofcarbohydratesanditsalterations.
2. Explainthemetabolism oflipidsanditsalterations.
3. Explainthemetabolismofproteinsandaminoacidsanditsalterations.
4. Explainclinicalenzymologyinvariousdiseaseconditions.
5. Explainacidbasebalance,imbalanceanditsclinicalsignificance.
6. Describethemetabolismofhemoglobinanditsclinicalsignificance.
7. Explaindifferentfunctiontestsandinterpretthefindings.
8. Illustratetheimmunochemistry.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
I	8(T)	Describe themetabolism ofcarbohydrates anditsalterations	**Carbohydrates** • Digestion,absorptionandmetabolismofcarbohydratesandrelateddisorders • Regulationofbloodglucose • Diabetes Mellitus – type 1 and type 2,symptoms,complications&managementinbrief • Investigations ofDiabetesMellitus ○ OGTT–Indications,Procedure, Interpretationandtypes ofGTTcurve ○ MiniGTT,extendedGTT,GCT,IVGTT ○ HbA1c(Onlydefinition) • Hypoglycemia–Definition&causes	• Lecture cumDiscussion • Explain usingchartsandslides • Demonstration oflaboratorytests	• Essay • Shortanswer • Very shortanswer
II	8(T)	Explain themetabolism oflipids and itsalterations	**Lipids** • Fattyacids –Definition,classification • Definition & Clinical significance ofMUFA&PUFA,Essentialfattyacids, Transfattyacids • Digestion,absorption&metabolismoflipids&related disorders • Compoundsformedfromcholesterol • Ketonebodies(name,types&significanceonly) • Lipoproteins– types&functions(metabolismnotrequired) • Lipidprofile Atherosclerosis(inbrief)	• Lecture cumDiscussion • Explain usingchartsandslides Demonstration oflaboratorytests	• Essay • Shortanswer Very shortanswer

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
III	9(T)	Explain themetabolism ofamino acids andproteins	**Proteins** • Classification of amino acids based onnutrition,metabolicratewithexamples • Digestion,absorption&metabolismofprotein&related disorders • Biologically important compoundssynthesizedfromvariousaminoacids(onlynames) • Inbornerrorsofaminoacidmetabolism –onlyaromaticaminoacids(inbrief) • Plasmaprotein– types,function&normalvalues • Causesofproteinuria,hypoproteinemia,hyper-gammaglobinemia • Principleofelectrophoresis,normal&abnormalelectrophoreticpatterns (in brief)	• Lecture cumDiscussion Explain usingcharts,modelsandslides	• Essay • Shortanswer Very shortanswer
IV	4(T)	Explain clinicalenzymology invariousdiseaseconditions	**ClinicalEnzymology** • Isoenzymes–Definition&properties • Enzymesofdiagnosticimportancein ○ LiverDiseases– ALT,AST,ALP,GGT ○ Myocardial infarction – CK, cardiactroponins,AST, LDH ○ Musclediseases–CK,Aldolase ○ Bonediseases–ALP Prostatecancer– PSA,ACP	• Lecture cumDiscussion • Explain usingchartsandslides	• Essay • Shortanswer • Very shortanswer
V	3(T)	Explain acid basebalance, imbalance anditsclinicalsignificance	**Acidbasemaintenance** • pH–definition,normalvalue • RegulationofbloodpH– bloodbuffer,respiratory&renal • ABG–normalvalues Acidbasedisorders–types,definition&causes	• Lecture cumDiscussion Explain usingchartsandslides	• Shortanswer • Very shortanswer
VI	2(T)	Describe themetabolism ofhemoglobin and itsclinicalsignificance	**Hemecatabolism** • Hemedegradationpathway Jaundice–type, causes,urine&bloodinvestigations(vandenbergtest)	• Lecture cumDiscussion • Explain usingchartsandslides	• Shortanswer • Very shortanswer

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
VII	3(T)	Explain differentfunction tests andinterpret thefindings	**Organ function tests (biochemicalparameters&normal valuesonly)** • Renal • Liver • Thyroid	• Lecture cumDiscussion • VisittoLab Explain usingchartsandslides	• Shortanswer Very shortanswer
VIII	3(T)	Illustrate theimmunochemistry	**Immunochemistry** • Structure&functionsofimmunoglobulin Investigations&interpretation– ELISA	• Lecture cumDiscussion • Explain usingchartsandslides • Demonstration oflaboratory tests	• Shortanswer • Very shortanswer

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos8	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. A.M.Mungikar, Biochemistry for Nursing students, Frontline publication, 2nd edition, 2018.

2. Dr. Alok Rawat, Applied biochemistry, Jain publication, 1st edition-2023

FNB120401- APPLIED NUTRITION & DIETETICS

PLACEMENT:IISEMESTER

THEORY: 3 credits (60 hours)

Theory:45 hours

Lab : 15hours

DESCRIPTION: Thecourseisdesignedtoassistthestudentstoacquirebasicknowledgeandunderstandingoftheprinciplesof Nutrition andDieteticsandapplythisknowledgeinthepracticeofNursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Identifytheimportanceofnutritionin healthandwellness.
2. Applynutrientanddietarymodificationsin caringpatients.
3. ExplaintheprinciplesandpracticesofNutritionandDietetics.
4. Identifynutritionalneedsofdifferentagegroups andplanabalanceddietforthem.
5. Identifythedietaryprinciplesfordifferentdiseases.
6. Plantherapeuticdietforpatientssufferingfromvariousdiseaseconditions.
7. Preparemealsusingdifferentmethodsandcookeryrules.

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
I	2(T)	Define nutrition anditsrelationshipto Health	**IntroductiontoNutrition** ***Concepts*** • DefinitionofNutrition&Health • Malnutrition– UnderNutrition&OverNutrition • RoleofNutritioninmaintaining health • Factorsaffectingfoodandnutrition ***Nutrients*** • Classification • Macro&Micronutrients • Organic&Inorganic • EnergyYielding&Non-EnergyYielding ***Food*** • Classification–Foodgroups • Origin	• Lecture cumDiscussion • Charts/Slides	• Essay • Shortanswer • Very shortanswer
II	3(T)	Describe theclassification,functions, sourcesand recommendeddaily allowances(RDA) of carbohydrates ExplainBMRandfactors affectingBMR	**Carbohydrates** • Composition– Starches,sugarandcellulose • RecommendedDailyAllowance(RDA) • Dietarysources • Functions **Energy** • Unitofenergy–Kcal • BasalMetabolicRate(BMR) • FactorsaffectingBMR	• Lecture cumDiscussion • Charts/Slides • Models • Displayoffooditems	• Essay • Shortanswer • Very shortanswer
III	3(T)	Describe theclassification, Functions,sources and RDA ofproteins.	**Proteins** • Composition • Eightessentialaminoacids • Functions • Dietarysources • Proteinrequirements –RDA	• Lecture cumDiscussion • Charts/Slides • Models • Displayoffooditems	• Essay • Shortanswer • Veryshort answer

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
IV	2(T)	Describe theclassification, Functions, sourcesand dRDA offats	**Fats** • Classification–Saturated&unsaturated • Calorievalue • Functions • Dietarysourcesoffatsandfattyacids • Fatrequirements–RDA	• Lecture cumDiscussion • Charts/Slides • Models Displayoffooditems	• Essay • Shortanswer Very shortanswer
V	3(T)	Describe theclassification,functions, sourcesand RDA ofvitamins	**Vitamins** • Classification– fatsoluble&watersoluble • Fatsoluble–VitaminsA,D,E,andK • Water soluble – Thiamine(vitamin B1), Riboflavin (vitamin B2),Nicotinic acid, Pyridoxine (vitamin B6),Pantothenicacid,Folicacid,VitaminB12,Ascorbicacid (vitamin C) Functions, Dietary Sources &Requirements–RDAofeveryvitamin	• Lecture cumDiscussion • Charts/Slides • Models • Displayoffooditems	• Essay • Shortanswer • Very shortanswer
VI	3(T)	Describe theclassification,functions, sourcesand RDA ofminerals	**Minerals** • Classification – Major minerals(Calcium, phosphorus, sodium,potassium and magnesium) and Traceelements • Functions • DietarySources Requirements–RDA	• Lecture cumDiscussion • Charts/Slides • Models Displayoffooditems	• Shortanswer Very shortanswer
VII	7(T) 8(L)	Describe and planbalanced diet fordifferent agegroups, pregnancy,andlactation	**Balanceddiet** • Definition,principles,steps • Foodguides–BasicFourFood Groups • RDA–Definition,limitations, uses • FoodExchangeSystem • Calculationofnutritivevalueoffoods • Dietaryfibre **Nutritionacrosslifecycle** • Mealplanning/Menu planning – Definition,principles,steps • InfantandYoungChildFeeding(IYCF)guidelines–breastfeeding,infantfoods Dietplanfordifferentagegroups– Children,adolescentsandelderly • Diet in pregnancy – nutritionalrequirementsandbalanceddietplan • Anemiainpregnancy–	• Lecture cumDiscussion • Mealplanning • Labsessionon ○ Preparation ofbalanced diet fordifferentcategories • Low costnutritiousdishes	• Shortanswer • Very shortanswer

			diagnosis,dietforanemic pregnantwomen,iron&folicacidsupplementation andcounseling Nutrition in lactation – nutritionalrequirements,dietforlactatingmothers,complementaryfeeding/ weaning		

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
VIII	6(T)	Classify anddescribe thecommon nutritional deficiency disordersand identify nurses'role in assessment,management andprevention	**Nutritionaldeficiencydisorders** • Proteinenergymalnutrition – magnitudeof the problem, causes, classification,signs & symptoms, Severe acutemalnutrition (SAM), management &preventionandnurses'role • Childhoodobesity– signs&symptoms,assessment, management & preventionandnurses'role • Vitamindeficiencydisorders–vitaminA,B, C & D deficiency disorders –causes,signs & symptoms, management &preventionandnurses'role • Mineral deficiency diseases – iron, iodineandcalciumdeficiencies– causes,signs&symptoms,management&preventionandnurses'role	• Lecture cumDiscussion • Charts/Slides Models	• Essay • Shortanswer Very shortanswer
IX	4(T) 7(L)	Principles of dietsinvariousdiseases	**Therapeuticdiets** • Definition,Objectives,Principles • Modifications–Consistency,Nutrients, • Feedingtechniques. Diet in Diseases – Obesity, DiabetesMellitus, CVD, Underweight, Renaldiseases,HepaticdisordersConstipation, Diarrhea,PreandPost-operativeperiod	• Lecture cumDiscussion • Mealplanning • Lab session onpreparation oftherapeuticdiets	• Essay • Shortanswer • Very shortanswer
X	3(T)	Describe the rulesandpreservation ofnutrients	**Cookeryrulesandpreservationofnutrients** • Cooking – Methods, Advantages andDisadvantages • Preservationofnutrients • Measurestopreventlossofnutrientsduringpreparation • SafefoodhandlingandStorageoffoods • Foodpreservation	• Lecture cumDiscussion • Charts/Slides	• Essay • Shortanswer • Very shortanswer

			• Foodadditivesandfoodadulteration • PreventionofFoodAdulterationAct(PFA) Foodstandards		

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
XI	4(T)	Explain themethodsofnutritionalassessment andnutritioneducation	**Nutritionassessmentandnutritioneducation** • Objectivesofnutritionalassessment • Methods of assessment – clinicalexamination, anthropometry, laboratory&biochemicalassessment,assessmentofdietary intake including Food frequencyquestionnaire(FFQ)method • Nutritioneducation– purposes,principlesandmethods	• Lecture cumDiscussion • Demonstration Writingnutritionalassessmentreport	• Essay • Shortanswer Evaluation ofNutritionalassessmentreport
XII	3(T)	Describe nutritional problemsinIndiaand nutritional programs	**NationalNutritionalProgramsandroleofnurse** • NutritionalproblemsinIndia • Nationalnutritionalpolicy • *National nutritional programs* – VitaminA Supplementation, Anemia Mukt BharatProgram, Integrated Child Development Services (ICDS), Mid-day Meal Scheme (MDMS), National Iodine DeficiencyDisorders Control Program (NIDDCP),Weekly Iron Folic Acid Supplementation(WIFS)andothersasintroduced Roleofnurseineveryprogram	• Lecture cumDiscussion	• Essay • Shortanswer • Very shortanswer
XIII	2(T)	Discusstheimportance of foodhygiene and foodsafety Explain the Actsrelated to foodsafety	**Foodsafety** • Definition,Foodsafetyconsiderations&measures • FoodsafetyregulatorymeasuresinIndia –RelevantActs • Fivekeystosafer food • Foodstorage,foodhandlingandcooking • Generalprinciplesoffoodstorageoffoodite	• Guidedreadingonrelated acts	• Quiz • Shortanswer

			ms(ex. milk,meat) • Roleoffoodhandlersinfoodbornedis eases Essentialstepsinsafecookingpractices		

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Anderson, " Nutrition in Nursing", Lippincot Co.,
2. Antia, E P, "Clinical Dietetics and Nutrition", 2nd edition, Oxford University Press, New Delhi, 1995.
3. Patwardhan V. N., "Nutrition in India", 2nd edition

FNB120402- NURSING FOUNDATION-II

PLACEMENT:IISEMESTER

THEORY:6Credits(120 hours)

PRACTICUM: SkillLab:3Credits(120hours),Clinical:4Credits(320hours)

DESCRIPTION: This courseisdesignedtohelpnovicenursingstudentsdevelopknowledge andcompetenciesrequiredtoprovideevidence-based, comprehensivebasicnursing careforadultpatients,usingnursingprocessapproach.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Developunderstandingaboutfundamentalsofhealthassessmentandperformhealthassess mentinsupervisedclinicalsettings
2. Demonstratefundamentalskillsofassessment,planning,implementationandevaluationo fnursingcare usingNursingprocessapproach in supervised clinicalsettings
3. AssesstheNutritionalneedsofpatientsandproviderelevantcareundersupervision
4. Identifyandmeetthehygienicneedsofpatients
5. Identifyandmeettheeliminationneedsofpatient
6. Interpretfindingsofspecimentestingapplyingtheknowledgeofnormalvalues
7. Promoteoxygenationbasedonidentifiedoxygenationneedsofpatientsundersupervision
8. Reviewtheconceptoffluid,electrolytebalanceintegrating theknowledgeofapplied physiology
9. Applytheknowledgeoftheprinciples, routes,effectsofadministrationofmedicationsinadministering medication
10. Calculateconversionsofdrugsanddosageswithinandbetweensystemsofmeasurements
11. Demonstrateknowledgeandunderstandingincaringforpatientswithalteredfuncti oningofsenseorgansandunconsciousness
12. Explainloss,deathandgrief

13. Describesexualdevelopmentandsexuality
14. Identifystressorsandstressadaptationmodes
15. Integratetheknowledgeofcultureandculturaldifferencesinmeetingthespiritualneeds
16. Explaintheintroductoryconceptsrelevanttomodels ofhealthandillness inpatientcare

***MandatoryModuleusedinTeaching/Learning:**

HealthAssessmentModule:40hours

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
I	20(T) 20(SL)	Describe thepurposeandprocessofhealthassessment andperform assessmentunder supervisedclinicalpractice	**HealthAssessment** • Interviewtechniques • Observationtechniques • PurposesofhealthassessmentProcessofHealthassessment ○ Healthhistory ○ Physicalexamination: ▪ Methods: Inspection, Palpation,Percussion,Auscultation, Olfaction ▪ Preparationforexamination: patient and unit ▪ Generalassessment ▪ Assessmentofeachbodysystem ▪ Documentinghealthassessmentfindings	• ModularLearning ***HealthAssessment Module** • Lecture cumDiscussion • Demonstration	• Essay • Shortanswer • Objective type • OSCE
II	13(T) 8(SL)	Describeassessment,planning,implementation andevaluationofnursing care usingNursingprocess	○ **Assessment** ▪ CollectionofData:Types,Sources, Methods ▪ OrganizingData ▪ ValidatingData ▪ DocumentingData ○ **NursingDiagnosis** ▪ Identificationofclientproblems,risksandstrengths ▪ Nursing diagnosis statement – parts, Types, Formulating,GuidelinesforformulatingNursingDiagnosis ▪ NANDAapproveddiagnoses ▪ Difference between medical andnursingdiagnosis ○ **Planning** ▪ Typesofplanning ▪ EstablishingPriorities ▪ EstablishingGoals andExpectedOutcomes–Purposes, types,guidelines, Components of goalsandoutcomestatements ▪ Types of Nursing Interventions,Selecting interventions:	• Lecture • Discussion • Demonstration • SupervisedClinicalPractice	• Essay • Shortanswer • Objectivetype • Evaluation ofcareplan

			ProtocolsandStanding Orders ▪ Introduction to NursingIntervention Classification andNursingOutcomeClassification ▪ Guidelinesforwritingcareplan ○ **Implementation** ▪ ProcessofImplementing theplanofcare ▪ Types ofcare– DirectandIndirect ○ **Evaluation-** Process, Documentation		

Unit	**Time (Hrs)**	**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**
III	5(T) 5(SL)	Identifyandmeetthe Nutritionalneedsofpatients	**Nutritionalneeds** • Importance • Factorsaffectingnutritionalneeds • Assessmentofnutritionalstatus • *Review:*specialdiets– Solid,Liquid,Soft • *Review*ontherapeuticdiets Careofpatientwith Dysphagia, Anorexia,Nausea,Vomiting • MeetingNutritionalneeds:Principles,equipment,procedure, indications ○ Oral ○ Enteral:Nasogastric/ Orogastric ○ Introductiontootherenteralfeeds–types, indications, Gastrostomy,Jejunostomy • Parenteral– TPN(TotalParenteralNutrition)	• Lecture • Discussion • Demonstration • Exercise SupervisedClinicalpractice	• Essay • Shortanswer • Objectivetype Evaluation ofnutritionalassessment &diet planning
IV	5(T) 15(SL)	Identify and meetthehygienicneedsofpatients	**Hygiene** • FactorsInfluencingHygienicPractice • Hygienic care: Indications andpurposes,effectsofneglectedcare ○ Care of the Skin – (Bath, feet and nail,HairCare) ○ Careofpressurepoints ○ AssessmentofPressureUlcersusingBradenScaleandNortonScale ○ Pressure ulcers – causes, stages andmanifestations,careandprevention	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objectivetype • OSCE

			○ Perinealcare/Meatalcare Oralcare,CareofEyes,EarsandNose including assistive devices (eyeglasses,contactlens,dentures,hearingaid)		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
V	10(T) 10(SL)	Identifyandmeetthe eliminationneedsofpatient	**Eliminationneeds** ▪ UrinaryElimination • ReviewofPhysiologyofUrineElimination, Composition andcharacteristicsofurine • FactorsInfluencingUrination • AlterationinUrinaryElimination • Facilitating urine elimination:assessment,types,equipment,procedures andspecialconsiderations • Providingurinal/bedpan • Careofpatientswith ▪ Condomdrainage ▪ IntermittentCatheterization ▪ Indwelling Urinary catheter andurinarydrainage ▪ UrinarydiversionsBladderirrigation ▪ BowelElimination • ReviewofPhysiologyof BowelElimination, Composition andcharacteristicsoffeces • FactorsaffectingBoweleliminati on • AlterationinBowelElimination	• Lecture • Discussion Demonstration	• Essay • Shortanswer • Objectivetype OSCE

			• Facilitating bowel elimination:Assessment,equipment,procedures • Enemas • Suppository • Bowelwash • DigitalEvacuationofimpactedfeces ▪ Care of patients with Ostomies(BowelDiversionProcedures)		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
VI	3(T) 4(SL)	Explain varioustypes of specimensandidentifynormalvaluesoftests Develop skill inspecimencollection, handlingandtransport	**Diagnostictesting** • Phasesofdiagnostictesting(pre-test,intra-test & post-test) in Commoninvestigationsandclinicalimplications ○ CompleteBloodCount ○ SerumElectrolytes ○ LFT ○ Lipid/Lipoproteinprofile ○ SerumGlucose–AC, PC, HbA1c ○ Monitoring Capillary BloodGlucose (Glucometer RandomBloodSugar–GRBS) ○ StoolRoutineExamination ○ UrineTesting –Albumin, Acetone,pH,SpecificGravity ○ UrineCulture,Routine,Timed UrineSpecimen ○ Sputumculture ○ Overview of Radiologic &EndoscopicProcedures	• Lecture • Discussion Demonstration	• Essay • Shortanswer Objectivetype
VII	11(T) 10(SL)	Assess patients foroxygenation needs,promoteoxygenation andprovide care duringoxygen therapy	**Oxygenationneeds** • ReviewofCardiovascularandRespiratoryPhysiology • Factorsaffectingrespiratoryfunctioning • Alterations inRespiratoryFunctioning • Conditionsaffecting	• Lecture • Discussion • Demonstration &Re-demonstration	• Essay • Shortanswer • Objectivetype

			○ Airway ○ Movementofair ○ Diffusion ○ Oxygentransport • Alterationsinoxygenation • Nursinginterventionstopromoteoxygenation: assessment, types,equipmentused&procedure ○ Maintenanceofpatentairway ○ Oxygenadministration ○ Suctioning–oral,tracheal ○ Chest physiotherapy – Percussion,Vibration&Posturald rainage ○ CareofChestdrainage– principles&purposes ○ PulseOximetry– Factorsaffectingmeasurementofoxygensaturation using pulse oximeter,Interpretation • Restorative&continuingcare ○ Hydration ○ Humidification ○ Coughingtechniques ○ Breathingexercises ○ Incentivespirometry		
VIII	5(T) 10(SL)	Describe theconcept of fluid,electrolytebalance	**Fluid,Electrolyte,andAcid – BaseBalances** • Review of Physiological Regulation ofFluid, Electrolyte and Acid-BaseBalances • FactorsAffectingFluid,ElectrolyteandAcid-BaseBalances • Disturbancesinfluidvolume: ○ Deficit ▪ Hypovolemia ▪ Dehydration ○ Excess ▪ Fluidoverload ▪ Edema • Electrolyteimbalances(hypoandhyper) ○ Acid-baseimbalances ▪ Metabolic–acidosis&alkalosis ▪ Respiratory–acidosis&alkalosis Intravenoustherapy ▪ Peripheralvenipuncturesites ▪ TypesofIVfluids ▪ CalculationformakingIVfluidpl	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objectivetype • Problemsolving –calculations

			an ▪ ComplicationsofIV fluidtherapy ▪ Measuringfluidintakeandoutput ▪ AdministeringBloodandBloodcomponents ▪ Restrictingfluidintake EnhancingFluidintake		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
IX	20(T) 22(SL)	Explain theprinciples, routes,effectsofadministration ofmedications Calculateconversionsofdrugsanddosageswithinandbetweensystemsofmeasurements Administer oral andtopical medicationand documentaccurately undersupervision	**AdministrationofMedications** • Introduction – DefinitionofMedication, AdministrationofMedication,DrugNomenclature,Effectsof Drugs, Forms of Medications,Purposes,PharmacodynamicsandPharmacokinetics • FactorsinfluencingMedicationAction • MedicationordersandPrescriptions • Systemsofmeasurement • Medicationdosecalculation • Principles,10rightsofMedicationAdministration • ErrorsinMedicationadministration • Routesofadministration • StorageandmaintenanceofdrugsandNursesresponsibility • Terminologiesandabbreviationsusedinprescriptionsandmedicationsorders • Developmentalconsiderations • Oral,SublingualandBuccalroutes:Equipment,procedure • Introduction to ParenteralAdministration of Drugs – Intramuscular, Intravenous,Subcutaneous, Intradermal: Location ofsite, Advantages and disadvantages ofthe specific sites,	• Lecture • Discussion Demonstration &Re-demonstration	• Essay • Shortanswer • Objectivetype OSCE

			Indication andcontraindicationsforthedifferentroutesandsites. • Equipment – Syringes & needles,cannulas,Infusionsets– parts,types,sizes • Types of vials and ampoules,PreparingInjectablemedicinesfromvialsand ampoules ○Careofequipment:decontaminationanddisposalofsyringes,needles, infusionsets ○PreventionofNeedle-StickInjuries • Topical Administration: Types,purposes,site,equipment,procedure ○ Applicationtoskin&mucousmembrane ○ Directapplicationofliquids,Garglean dswabbing thethroat ○ Insertion of Drug into body cavity:Suppository/ medicated packing inrectum/vagina ○ Instillations:Ear,Eye,Nasal,Bladder,andRectal ○ Irrigations:Eye,Ear,Bladder,Vaginalan dRectal ○ Spraying:Noseand throat • Inhalation: Nasal, oral,endotracheal/tracheal (steam, oxygenand medications) – purposes, types,equipment, procedure, recording andreportingofmedicationsadministered OtherParenteral Routes:Meaningofepidural, intrathecal, intraosseous,intraperitoneal, intra-pleural, intra-arterial		
X	5(T) 6(SL)	Provide care topatientswithalteredfunctioningofsenseorgansandunconsciousness insupervised clinicalpractice	**Sensoryneeds** • Introduction • Componentsofsensoryexperience– Reception,Perception&Reaction • ArousalMechanism • Factorsaffectingsensoryfunction • Assessment of Sensory alterations –	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objectivetype

			sensorydeficit,deprivation,overload&sensorypoverty • Management oPromotingmeaningfulcommunication(patients with Aphasia, artificialairway & Visual and Hearingimpairment) **CareofUnconsciousPatients** • Unconsciousness:Definition,causes&risk factors, pathophysiology, stages ofUnconsciousness, ClinicalManifestations Assessmentandnursingmanagementof patient with unconsciousness,complications		
Unit	**Time (Hrs)**	**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**
XI	4(T) 6(SL)	Explainloss,deathandgrief	**CareofTerminallyill, deathanddying** • Loss–Types • Grief,Bereavement&Mourning • Types ofGriefresponses • ManifestationsofGrief • FactorsinfluencingLoss&GriefResponses • Theories ofGrief&Loss–KublerRoss • 5StagesofDying • TheR Process model(Rando's) • Death–Definition,Meaning,Types(Brain&CirculatoryDeaths) • SignsofImpendingDeath • Dyingpatient's BillofRights • CareofDyingPatient • PhysiologicalchangesoccurringafterDeath • DeathDeclaration,Certification • Autopsy • Embalming • Lastoffice/DeathCare • Counseling&supportinggrievingrelatives • PlacingbodyintheMortuary	• Lecture • Discussion • Casediscussions Deathcare/last office	• Essay • Shortanswer Objectivetype

			• ReleasingbodyfromMortuary Overview – Medico-legal Cases,Advancedirectives, DNI/DNR,OrganDonation ,Euthanasia		
XII	3(T)	Develop basicunderstanding ofself-concept	**A.Self-concept** • Introduction • Components (Personal Identity, BodyImage,RolePerformance,SelfEsteem) • FactorsaffectingSelfConcept • NursingManagement	• Lecture • Discussion • Demonstration • Case Discussion/Roleplay	• Essay • Shortanswer • Objectivetype

Unit	**Time (Hrs)**	**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**
XIII	2(T)	Describe sexualdevelopment andsexuality	**B.Sexuality** • Sexualdevelopmentthroughoutlife • Sexualhealth • Sexualorientation • Factorsaffectingsexuality • Prevention of STIs, unwantedpregnancy,avoidingsexualharassmentandabuse • Dealingwithinappropriatesexualbehavior	• Lecture Discussion	• Essay • Shortanswer Objectivetype
XIV	2(T) 4(SL)	Describe stress andadaptation	**C.Stress andAdaptation– Introductoryconcepts** • Introduction • Sources,Effects,Indicators&TypesofStress • Typesofstressors • Stress Adaptation – GeneralAdaptationSyndrome(GAS) ,LocalAdaptation Syndrome(LAS) • Manifestationofstress– Physical&psychological • Copingstrategies/Mechanisms • StressManagement ○ Assistwithcopingandadaptation ○ Creatingtherapeuticenvironment Recreationalanddiversiontherapies	• Lecture • Discussion	• Essay • Shortanswer • Objectivetype
XV	6(T)	Explainculturealdculturalnorms	**D.ConceptsofCulturalDiversityandSpirituality**	• Lecture • Discussion	• Essay • Shortanswer

		Integrateculturaldifferences andspiritual needs inproviding care topatientsundersupervision	• Culturaldiversity ○ Cultural Concepts – Culture,Subculture,Multicultural,Diversity, Race,Acculturation,Assimilation ○ TransculturalNursing ○ CulturalCompetence ○ ProvidingCulturallyResponsiveCare • Spirituality ○ Concepts–Faith,Hope,Religion, Spirituality,SpiritualWellbeing ○ FactorsaffectingSpirituality ○ SpiritualProblemsinAcute,Chronic,Terminal illnesses & Near-DeathExperience DealingwithSpiritualDistress/Problems		• Objectivetype

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
XVI	6(T)	Explain thesignificance ofnursingtheories	**NursingTheories:Introduction** • Meaning&Definition,Purposes,Typesof theories with examples, Overview ofselected nursing theories – Nightingale,Orem, Roy • Useoftheories in nursingpractice	• Lecture Discussion	• Essay • Shortanswer Objectivetype

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 9	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 10	**Pos-1,Pos-2/Psos-1-Psos-13**

Cos 11	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 12	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 13	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 14	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 15	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 16	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Barbara Kosler et al, "Fundamentals of Nursing concepts and procedure", Addison Welsloy publishing Co., 13 th edition
2. Potter and perry, "Fundamentals of Nursing concepts-process and practice", C.V Mosby
3. First Aid Manual, The authorized manual of St. John"s Ambulance, dorlingKindersly

FNB120403- HEALTH/NURSING INFORMATICS & TECHNOLOGY

PLACEMENT:IISEMESTER

THEORY:2Credits(40hours)

PRACTICAL/LAB:1Credit(40hours)

DESCRIPTION: Thiscourseisdesignedtoequipnovicenursingstudentswithknowledgeand skillsnecessary todeliverefficientinformatics-led health careservices.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Developabasicunderstandingofcomputerapplicationinpatientcareandnursingpractice.
2. Applytheknowledgeofcomputerandinformationtechnologyinpatientcareandnu rsingeducation,practice,administration andresearch.
3. Describetheprinciples ofhealthinformaticsandits useindevelopingefficienthealthcare.
4. Demonstratetheuseofinformation systeminhealthcareforpatientcareandutilization ofnursing data.
5. DemonstratetheknowledgeofusingElectronicHealthRecords(EHR)systeminclinicalpractice.
6. Applytheknowledgeofinteroperabilitystandardsinclinicalsetting.
7. Applytheknowledgeofinformationandcommunicationtechnologyinpublichealthpromotion.
8. UtilizethefunctionalitiesofNursingInformationSystem(NIS)systeminnursing.
9. Demonstratetheskillsofusingdatain managementofhealthcare.
10. Applytheknowledge oftheprinciplesofdigitalethicalandlegalissuesinclinicalpractice.

11. Utilizeevidence-basedpracticesininformaticsandtechnologyforprovidingqualitypatientcare.
12. Updateandutilizeevidence-basedpracticesinnursingeducation,administration,andpractice.

Unit	Time(Hrs)		LearningOutcomes	Content	Teaching/ LearningActivities	AssessmentMethods
	T	P/L				
I	10	15	Describe theimportance ofcomputer andtechnology in patientcare and nursingpractice	**Introduction to computerapplicationsforpatient caredelivery system and nursingpractice** • Use of computers in teaching,learning, research and nursingpractice	• Lecture • Discussion • Practicesession • Supervised clinicalpracticeonEHR use • Participate in dataanalysis using statisticalpackagewithstatistician	(T) • Shortanswer • Objectivetype • Visitreports • Assessment ofassignments
			Demonstrate the useof computer andtechnology in patientcare, nursingeducation, practice,administration andresearch.	• Windows,MSoffice:Word,Excel ,PowerPoint • Internet • Literatureresearch • Statisticalpackages • Hospital managementinformationsystem	• Visittohospitalswithdifferent hospitalmanagementsystems	(P) • Assessment ofskills usingchecklist
II	4	5	Describe theprinciples of healthinformatics Explain the waysdata, knowledge andinformation can beused for effectivehealthcare	**<u>PrinciplesofHealthInformatics</u>** • Healthinformatics– needs,objectivesandlimitations • Use of data, information andknowledgeformoreeffectivehealthcareandbetterhealth	• Lecture • Discussion • Practicalsession • Workin groupswithhealth informatics teamin a hospital to extractnursingdataandprepa rea report	(T) • Essay • Shortanswer • Objective typequestions • Assessment ofreport

III	3	5	Describe theconceptsofinformation systeminhealth Demonstrate the useofhealthinformation system in hospitalsetting	**InformationSystemsinHealthcare** • Introduction to the role andarchitecture of informationsystemsinmodernhealthcareenvironments • ClinicalInformationSystem(CIS)/Hospital informationSystem(HIS)	• Lecture • Discussion • Demonstration • Practicalsession • Workin groupswithnurse leaders tounderstandthehospitalinformationsystem	(T) • Essay • Shortanswer • Objectivetype
IV	4	4	Explain the use ofelectronic healthrecords in nursingpractice Describethelatesttrend in electronichealth recordsstandardsand interoperability	**SharedCare&ElectronicHealthRecords** • Challenges of capturing richpatienthistoriesinacomputableform Latestglobaldevelopmentsandstandards to enable lifelongelectronic health records to beintegrated from disparatesystems.	• Lecture • Discussion • PracticeonSimulatedEHRsystem • Practicalsession Visit to healthinformatics departmentof a hospital tounderstand the use ofEHRinnursingpractice	(T) • Essay • Shortanswer • Objective type(P) Assessment ofskills usingchecklist

Unit	**Time (Hrs)**		**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**
	T	**P/L**				
V	3		Describe theadvantages andlimitationsofhealthinformaticsinmaintaining patientsafety and riskmanagement	**PatientSafety&ClinicalRisk** • Relationshipbetweenpatients afetyandinformatics • Functionandapplicationoftheriskmanagementprocess	• Lecture • Discussion	(T) • Essay • Shortanswer • Objectivetype
VI	3	6	Explain theimportance ofknowledge management Describe thestandardizedlanguages used inhealthinformatics	**ClinicalKnowledge&DecisionMaking** • Roleofknowledgemanagementinimprovingdecision-makingin both the clinical and policycontexts • Systematized Nomenclature ofMedicine, Clinical Terms,SNOMED CT to ICD-10-CMMap, standardized nursingterminologies (NANDA, NOC),Omahasystem.	• Lecture • Discussion • Demonstration • Practicalsession • Workin groupstoprepare a report onstandardized languagesused in healthinformatics.	(T) • Essay • Shortanswer • Objectivetype

VII	3		Explain the use ofinformation andcommunicationtechnology in patientcare Explain theapplicationofpublichealthinformatics	**eHealth:PatientsandtheInternet** • Use of information andcommunication technology toimproveorenablepersonalandpublichealthcare • Introduction to public healthinformaticsandroleofnurses	• Lecture • Discussion • Demonstration	• Essay • Shortanswer • Objectivetype • Practicalexam
VIII	3	5	Describe thefunctions of nursinginformation system Explaintheuseofhealthcare data inmanagement ofhealth careorganization	**UsingInformationinHealthcare Management** • Components of NursingInformationsystem(NIS) • Evaluation,analysisandpresentationofhealthcaredatato inform decisions in themanagement of health-careorganizations	• Lecture • Discussion • Demonstration onsimulatedNISsoftware • Visit to healthinformatics departmentof the hospital tounderstand use ofhealthcare data indecisionmaking	(T) • Essay • Shortanswer • Objectivetype

Unit	**Time (Hrs)**		**LearningOutcomes**	**Content**	**Teaching/ LearningActivities**	**Assessment Methods**
	T	**P/L**				
IX	4		Describe the ethicaland legal issues inhealthcareinformatics Explains the ethicalandlegaliss ues related to nursinginformatics	**InformationLaw&GovernanceinClinicalPractice** • Ethical-legalissuespertainingtohealthcare information incontemporaryclinicalpractice Ethical-legalissuesrelatedto digital healthapplied tonursing	• Lecture • Discussion • Casediscussion Roleplay	(T) • Essay • Shortanswer Objectivetype

X	3		Explain therelevance ofevidence-basedpracticesin providing qualityhealthcare	**HealthcareQuality&EvidenceBasedPractice** • Useofscientificevidenceinimproving the quality ofhealthcare and technical andprofessional informaticsstandards	• Lecture • Discussion • Casestudy	(T) • Essay • Shortanswer • Objectivetype

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**

Cos 8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 9	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 10	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 11	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 12	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Brunner and Suddarth's, Text Book of Medical Surgical Nursing, 9th edition, 2005, Lippincott, Raven Publishers.
2. Jayce M. Black, Jane Hokanson Hawks, Medical Surgical Nursing- Clinical Mangement for positive outcomes, 7th edition, 2005, Elsevier, India.

FNB130401- APPLIED MICROBIOLOGY

THEORY:20hours

PRACTICAL:20hours(Lab/ExperientialLearning–L/E)

DESCRIPTION: This course is designed to enable students to acquire understanding

of fundamentals of Microbiology,compare and contrast different microbes and comprehend the means of transmission and control of spread by variousmicroorganisms.Italsoprovidesopportunities forpracticinginfectioncontrolmeasuresinhospitalandcommunitysettings.

COMPETENCIES: Oncompletion ofthecourse, thestudentswillbeableto:

1. Identifytheubiquityand diversityofmicroorganismsin thehumanbodyand theenvironment.
2. Classifyandexplainthemorphologyandgrowthofmicrobes.
3. Identifyvarioustypesofmicroorganisms.
4. Exploremechanismsbywhichmicroorganismscausedisease.
5. Developunderstandingofhowthehumanimmunesystemcounteractsinfectionbys pecificandnon-specificmechanisms.
6. Applytheprinciplesofpreparation anduseofvaccinesinimmunization.
7. Identifythecontributionofthemicrobiologist andthemicrobiologylaboratorytothediagnosisofinfection.

Unit	Time(Hrs)		Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
	T	P				
I	3		Explain conceptsand principles ofmicrobiology andits importance innursing	**Introduction:** • Importanceand relevancetonursing • Historicalperspective • Conceptsandterminology • Principlesofmicrobiology	• Lecture cumDiscussion	• Shortanswer • Objective type

II	10	10(L/E)	Describestructure ,classificationmor phology andgrowthofbacte ria IdentifyMicroor ganisms	**GeneralcharacteristicsofMicrobes:** • Structureandclassificationof Microbes • Morphologicaltypes • Sizeand formofbacteria • Motility • Colonization • Growthandnutritionofmicrobes • Temperature • Moisture • Bloodandbodyfluids • Laboratory methods forIdentificationofMicroorganis ms • Types of Staining – simple,differential (Gram's, AFB), special –capsular staining (negative), spore,LPCB, KOHmount. • Cultureandmediapreparation–solid and liquid. Types of media –semi synthetic, synthetic, enriched,enrichment, selective and differentialmedia. Pure culture techniques – tubedilution, pour, spread, streak plate.Anaerobiccultivation ofbacteria	• Lecture cumDiscuss ion • Demonstration • ExperientialLear ning throughvisual	• Shortanswer • Objective type
III	4	6(L/E)	Describe thedifferent diseaseproducin gorganisms	**Pathogenicorganisms** • Micro-organisms: Cocci – grampositiveandgramnegative;Bacil li–grampositiveand gramnegative • Viruses • Fungi:SuperficialandDeepmycoses • Parasites • Rodents&Vectors o Characteristics, Source, portal ofentry, transmission of infection,Identificationofdiseasepr oducingmicro-organisms	• Lecture cumDiscuss ion • Demonstration • Experientiallear ning throughvisual	• Shortanswer • Objective type
IV	3	4(L/E)	Explain theconcept sof immunity, hypersensit ivity andimmuni zation	**Immunity** • Immunity:Types,classification • Antigenandantibodyreaction • Hypersensitivityreactions • Serologicaltests • Immunoglobulins:Structure,types&p	• Lecture • Discussion • Demonstration • Visittoobserve vaccinestorage • Clinicalpractice	• Shortanswer Objective type • Visitreport

				roperties • Vaccines: Types & classification,storage and handling, cold chain,Immunizationforvariousdiseases ImmunizationSchedule		

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Dr. PHBS Sharma, A textbook of microbiology, S. Vikas & Company publication, 1st edition-2015.

2. Dr. Preeti Agarwal, Vinod Gopta, Appliedmicrobiology infection control, jain publication, 1st edition-2022

FNB130401- INFECTION CONTROL INCLUDING SAFETY

THEORY:20hours

PRACTICAL/LAB:20hours(Lab/ExperientialLearning–L/E)

DESCRIPTION: This course is designed to help students to acquire knowledge and develop competencies required forfundamental patient safety and infection control in delivering patient care. It also focuses on identifying patient safetyindicators, preventingandmanaginghospitalacquired infections, and infollowinguniversalprecautions.

COMPETENCIES: Thestudentswillbeableto:

1. DevelopknowledgeandunderstandingofHospitalacquiredInfections(HAI)andeffectivepracticesforprevention.
2. Integratetheknowledgeofisolation(Barrierandreversebarrier)techniquesinimplementingvariousprecautions.
3. DemonstrateandpracticestepsinHandwashingandappropriateuseofdifferenttypesofPPE.
4. Illustratevariousdisinfectionandsterilizationmethodsandtechniques.
5. Demonstrateknowledgeandskillinspecimencollection,handlingandtransporttooptimizethediagnosisfortreatment.
6. IncorporatetheprinciplesandguidelinesofBioMedicalwastemanagement.
7. ApplytheprinciplesofAntibioticstewardshipinperformingthenurses‘role.
8. Identifypatientsafetyindicatorsand performtheroleofnursein thepatientsafetyauditprocess.
9. ApplytheknowledgeofInternationalPatientSafetyGoals(IPSG)inthepatientcaresettings.
10. Identify employeesafetyindicatorsandriskofoccupational hazards.
11. Developunderstandingofthevarioussafetyprotocolsandadheretothoseprotocols.

Unit	Time(Hrs)		Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
	T	P				
I	2	2(E)	Summarize theevidence basedand effectivepatient carepracticesfor thepreventionof commonhealthcareassociated infections in thehealthcare setting	**HAI(HospitalacquiredInfection)** • Hospitalacquiredinfection • Bundleapproach - PreventionofUrinaryTractInfection (UTI) - PreventionofSurgicalSiteInfection (SSI) - PreventionofVentilator Associatedevents(VAE) - PreventionofCentralLine Associated Blood StreamInfection(CLABSI)	• Lecture &Discussion • Experiential learning	• Knowledge assessment • MCQ • Shortanswer

				- Surveillance of HAI – Infectioncontrol team & Infection controlcommittee		
II	3	4(L)	Demonstrateappropriate useof differenttypes of PPEsand the criticaluse of riskassessment	**Isolation Precautions and use ofPersonal Protective Equipment(PPE)** • Typesofisolationsystem,standardprecaution and transmission-basedprecautions (Direct Contact,Droplet,Indirect) • Epidemiology & Infectionprevention– CDCguidelines EffectiveuseofPPE	• Lecture • Demonstration &Re-demonstration	• Performance assessment • OSCE
III	1	2(L)	Demonstrate thehand hygienepractice and itseffectiveness oninfectioncontrol	**HandHygiene** • TypesofHandhygiene. • Handwashinganduseofalcoholhandrub • MomentsofHandHygiene WHOhandhygienepromotion	• Lecture • Demonstration &Re-demonstration	• Performance assessment
IV	1	2(E)	Illustratesdisinfection andsterilization inthe healthcaresetting	**Disinfectionandsterilization** • Definitions • Typesofdisinfectionandsterilization • Environmentcleaning • EquipmentCleaning • Guidesonuseofdisinfectants Spaulding'sprinciple	• Lecture • Discussion • Experientiallearning throughvisit	• Shortanswer • Objectivetype

Unit	**Time(Hrs)**		**Learning Outcomes**	**Content**	**Teaching/Learning Activities**	**Assessment Methods**
	T	**P**				

V	1		Illustrate onwhat, when,how, whyspecimens arecollectedtoopt imize thediagnosis fortreatment andmanagement.	**SpecimenCollection(Review)** • Principleofspecimencollection • Typesofspecimens • Collectiontechniquesandspecialc onsiderations • Appropriatecontainers • Transportation ofthesample Staffprecautionsinhandlingspecim ens	Discussion	• Knowledge evaluation • Quiz • Performance assessment Checklist
VI	2	2(E)	Explain on BioMedical wastemanageme nt &laundrymanage ment	**BMW(BioMedicalWaste Management)** *Laundrymanagementprocessan dinfectioncontrolandprevention* • Wastemanagementprocessandi nfectionprevention • Staffprecautions • Laundrymanagement Country ordinance and BMWNationalguidelines2017:Segrega tion of wastes, Colourcoded waste containers, wastecollection&storage,Packaging&l abeling,Transportation	• Discussion • Demonstration Experientiallearningt hrough visit	• Knowledgeas sessment byshort answers,objec tivetype • Performan ce • Assessmen t
VII	2		Explain in detailabout Antibioticstewar dship,AMR DescribeMRSA /MDRO and itsprevention	**Antibioticstewardship** • ImportanceofAntibiotic Stewardship • Anti-MicrobialResistance PreventionofMRSA,MDRO inhealthcaresetting	• Lecture • Discussion • Writtenassignment • –Recent AMR(Antimicrobial resistance)guideline s	• Shortanswer • Objectivetype • Assessment ofassignment

Unit	**Time(Hrs)**		**Learning Outcomes**	**Content**	**Teaching/Learning Activities**	**Assessment Methods**
	T	**P**				

VIII	3	5(L/E)	Enlist the patientsafety indicatorsfollowed in ahealth careorganization andthe role of nursein the patientsafety auditprocess Captures andanalyzesincidents andevents forqualityimprovement	**PatientSafetyIndicators** • CareofVulnerablepatients • Prevention ofIatrogenicinjury • Careoflines, drainsandtubing's • Restrainpolicyandcare–PhysicalandChemical • Blood&bloodtransfusionpolicy • PreventionofIVComplication • PreventionofFall • PreventionofDVT • Shiftingandtransportingofpatients • Surgicalsafety • Carecoordinationeventrelatedtomedication reconciliation andadministration • Preventionofcommunicationerrors • PreventionofHAI • Documentation **IncidentsandadverseEvents** • Capturingofincidents • RCA(RootCauseAnalysis) • CAPA(CorrectiveandPreventive Action) Reportwriting	• Lecture • Demonstration • Experiential learning Lecture • Roleplay Inquiry BasedLearning	• Knowledge assessment • Performance assessment • Checklist/OSCE • Objectivetype • Knowledge assessment Shortanswer
IX	1		Enumerate IPSGand applicationof the goals inthe patient caresettings.	**IPSG(InternationalPatientsafety Goals)** • Identifypatientcorrectly • Improveeffectivecommunication • ImprovesafetyofHighAlertmedication • Ensuresafesurgery • Reducetheriskofhealthcareassociated infection • Reduce the risk of patient harmresultingfromfalls Reducetheharmassociatedwithclinicalalarmsystem	• Lecture • Roleplay	• Objectivetype

Unit	Time(Hrs)	Learning	Content	Teaching/Learning	Assessment

	T	P	Outcomes		Activities	Methods
X	2	3(L/E)	Enumerate thevarious safetyprotocols and itsapplications	**Safetyprotocol** • 5S(Sort,Setinorder,Shine,Standardize, Sustain) • Radiationsafety • Lasersafety • Firesafety - Typesandclassificationoffire - Firealarms - Firefightingequipment • HAZMAT (Hazardous Materials)safety - Typesofspill - Spillagemanagement - MSDS (Material Safety DataSheets) • Environmentalsafety - Riskassessment - Aspectimpactanalysis - Maintenance of Temp andHumidity(Departmentwise) - Audits • EmergencyCodes RoleofNurseintimesofdisaster	• Lecture Demonstration/Experientiallearning	• Mockdrills • Posttests Checklist
XI	2		Explainimportance ofemployeesafety indicators Identify risk ofoccupationalhazards,prevention andpost exposureprophylaxis.	**EmployeeSafetyIndicators** • Vaccination Needlestickinjuries(NSI) prevention • Fallprevention • Radiationsafety • Annualhealthcheck **HealthcareWorkerImmunization Program and management ofoccupationalexposure** • Occupationalhealthordinance • Vaccinationprogramforhealthcarestaff Needlestickinjuriesandpreventionandpost exposureprophylaxis	• Lecture • Discussion • Lecturemethod • Journalreview	Knowledgeassessment byshortanswers, objectivetype • Shortanswer

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 9	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 10	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 11	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Dr. Preeti Agarwal, Vinod Gopta, Appliedmicrobiology infection control safety, jain publication, 1st edition-2022

2. Dr. ImtiyazWani, Poonam Batra, A textbook of infection control & safety, S. Vikas & company medical publication, 1st edition- 2023

FNB130402- PHARMACOLOGY-I

PLACEMENT:IIISEMESTER

THEORY:1Credit(20 hours)

DESCRIPTION: This course is designed to enable students to acquire understanding of Pharmacodynamics,Pharmacokinetics, principlesoftherapeuticsand nursing implications.

COMPETENCIES: Oncompletionofthecourse,thestudentswill beableto

1. Describepharmacodynamicsandpharmacokinetics.
2. Reviewtheprinciplesofdrugcalculationandadministration.
3. Explainthecommonlyusedantisepticsanddisinfectants.
4. Describethepharmacologyofdrugsactingon theGIsystem.
5. Describethepharmacologyofdrugsactingon therespiratorysystem.
6. Describedrugs usedinthetreatmentofcardiovascularandblooddisorders.
7. Explainthedrugsusedinthetreatmentofendocrinesystemdisorders.
8. Describethedrugsactingonskinanddrugsusedtotreatcommunicablediseases.

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/Learning Activities	Assessment Methods

I	3(T)	DescribePharmacodynamics,Pharmacokinetics,Classification,principlesofadministrationofdrugs	**IntroductiontoPharmacology** • Definitions&Branches • Nature&Sourcesofdrugs • DosageFormsandRoutes ofdrugadministration • Terminologyused • Classification, Abbreviations,Prescription,DrugCalculation,WeightsandMeasures • *Pharmacodynamics:* Actions, DrugAntagonism, Synergism, Tolerance,Receptors,Therapeutic,adverse,toxiceffects, pharmacovigilance • *Pharmacokinetics:* Absorption,Bioavailability, Distribution,Metabolism,Interaction,Excretion • Review: Principles of drugadministration and treatmentindividualization ○Factorsaffectingdose,routeetc. • IndianPharmacopoeia:LegalIssues, Drug Laws,ScheduleDrugs • RationalUseofDrugs • PrinciplesofTherapeutics	• Lecture cumDiscussion • Guided reading andwritten assignmentonscheduleKdrugs	• Shortanswer • Objectivetype • Assessment ofassignments
II	1(T)	Describe antiseptics,and disinfectant &nurse‘sresponsibilities	**Pharmacologyofcommonlyusedantisepticsanddisinfectants** • AntisepticsandDisinfectants • Composition,action,dosage,route,indications,contraindications, Druginteractions,sideeffects,adverseeffects, toxicityand roleofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype
III	2(T)	Describe drugs actingon gastro-intestinalsystem &nurse‘sresponsibilities	**DrugsactingonG.I.system** • Pharmacologyofcommonlyuseddrugs ○ EmeticsandAntiemetics ○ LaxativesandPurgatives ○ Antacidsandantipepticulcerdrugs ○ Anti-diarrhoeals – Fluid andelectrolytetherapy,Furazolidone,dicyclomine • Composition,action,dosage,route,indications, contraindications, druginteractions, side effects, adverseeffects, toxicityand roleofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype

Unit	**Time (Hrs)**	**LearningOutcomes**	**Content**	**Teaching/Learning Activities**	**Assessment Methods**

IV	2(T)	Describe drugs actingonrespiratorysystem&nurse'sresponsibilities	**Drugsactingonrespiratorysystem** • Pharmacologyofcommonlyused o Antiasthmatics–Bronchodilators(Salbutamolinhalers) o Decongestants o Expectorants,Antitussivesand Mucolytics o Broncho-constrictors andAntihistamines • Composition,action,dosage,route,indications, contraindications, druginteractions, side effects, adverseeffectstoxicityandrole ofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype
V	4(T)	Describedrugsusedoncardio-vascular system&nurse'sresponsibilities	**Drugs used in treatment ofCardiovascularsystemandbloodddisorders** • Haematinics,&treatmentofanemiaandantiadrenergics • Cholinergicandanticholinergic • AdrenergicDrugsforCHF&vasodilators • Antianginals • Antiarrhythmics • Antihypertensives • Coagulants&Anticoagulants • Antiplatelets&thrombolytics • Hypolipidemics • Plasmaexpanders&treatmentofshock • Drugsusedtotreatblooddisorders • Composition,action,dosage,route,indications, contraindications, druginteractions, side effects, adverseeffects, toxicityand roleofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/Learning Activities	Assessment Methods
VI	2(T)	Describethedrugsusedin treatment ofendocrine systemdisorders	**Drugsusedintreatmentofendocrinesystemdisorders** • Insulin&oralhypoglycemics • Thyroidandanti-thyroiddrugs • Steroids ○Corticosteroids ○Anabolicsteroids • Calcitonin,parathormone,vitaminD3,calciummetabolism • ○Calciumsalts	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype
VII	1(T)	Describe drugs used inskin diseases &nurse'sresponsibilities	**Drugsusedintreatmentofintegumentarysystem** • Antihistaminicsandantipruritics • Topical applications for skin-Benzylbenzoate, Gamma BHC,Clotrimazole,Miconazole,SilverSulphadiazine(burns) Composition,action,dosage,route,indications, contraindications, druginteractions, side effects, adverseeffectstoxicityandrole ofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype
VIII	5(T)	Explaindrugtherapy/chemotherapy ofspecific infections &infestations &nurse'sresponsibilities	**Drugs used in treatment ofcommunicablediseases(commoninfections, infestations)** • GeneralPrinciples foruseofAntimicrobials • Pharmacologyofcommonlyusedd rugs: ○ Penicillin, Cephalosporin's,Aminoglycosides,Macrolide&broadspectrum antibiotics, Sulfonamides,quinolones, Misc.antimicrobials • Anaerobicinfections • Antituberculardrugs, • Antileprosydrugs • Antimalarials • Antiretroviraldrugs • Antiviralagents • Antihelminthics,Antiscabiesagents • Antifungalagents Composition, action, dosage, route,indications,contraindications,Druginteractions, side effects, adverseeffects, toxicityandroleofnurse	• Lecture cumDiscussion • Drug study/presentation	• Shortanswer • Objectivetype

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 8	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Suresh Sharma, Textbook of pharma & pathology for nurses-I, Jaypee publication, 2nd edition- 2022.

2. Suresh Sharma, Textbook of pharma & pathology for nurses-II, Jaypee publication, 2nd edition- 2022.

FNB130402- PATHOLOGY-I

PLACEMENT:IIISEMESTER

THEORY:1Credit(20hours)(includeslabhoursalso)

DESCRIPTION: Thiscourseisdesignedtoenablestudentstoacquireknowledgeofpathologyofvariousdiseaseconditions, understanding of genetics, its role in causation and management of defects and diseases and to apply thisknowledgein practiceofnursing.

COMPETENCIES: Oncompletionofthecourse,thestudentswillbeableto

1. Applytheknowledgeofpathologyinunderstandingthedeviationsfromnormal toabnormalpathology.
2. Rationalizethevarious laboratoryinvestigationsindiagnosingpathologicaldisorders.
3. Demonstratetheunderstandingofthemethodsofcollectionofblood,bodycavityfluids,urineandfecesforvarioustests.
4. Applytheknowledgeofgeneticsinunderstanding thevariouspathologicaldisorders.
5. Appreciatethevarious manifestationsinpatientswithdiagnosedgeneticabnormalities.
6. Rationalizethespecificdiagnostictestsinthedetection ofgeneticabnormalities.
7. Demonstratetheunderstandingofvariousservicesrelatedtogenetics

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
I	8(T)	Define thecommon termsused inpathology Identify thedeviations fromnormal toabnormalstructure andfunctionsof bodysystem	**Introduction** • Importanceofthestudyofpathology • Definition oftermsinpathology • Cellinjury:Etiology,pathogenesisofreversibleandirreversiblecellinjury,Necrosis,Gangrene • Cellularadaptations:Atrophy,Hypertrophy,Hyperplasia,Metaplasia,Dysplasia,Apoptosis • Inflammation: ○ Acuteinflammation (VascularandCellularevents, systemic effects of acuteinflammation) ○ Chronic inflammation (Granulomatousinflammation,systemiceffectsofchronicinflammation) • Woundhealing • Neoplasia**:** Nomenclature, Normal and Cancercell, Benign and malignant tumors, Carcinomain situ, Tumor metastasis: general mechanism,routesofspreadandexamplesofeach route • Circulatory disturbances: Thrombosis,embolism,shock • Disturbanceofbodyfluidsandelectrolytes:Edema, TransudatesandExudates	• Lecture • Discussion • Explainusingslides • Explain withclinicalscenarios	• Shortanswer • Objectivetype
II	5(T)	Explainpathologicalchangesindiseaseconditions ofvarioussystems	**SpecialPathology** **Pathologicalchangesindiseaseconditionsofselectedsystems:** **1. Respiratorysystem** • Pulmonary infections: Pneumonia, Lungabscess,pulmonarytuberculosis • Chronic Obstructive Pulmonary Disease:Chronicbronchitis,Emphysema,BronchialAsthma, Bronchiectasis • TumorsofLungs **2. Cardio-vascularsystem** • Atherosclerosis • IschemiaandInfarction. • RheumaticHeartDisease	• Lecture • Discussion • Explain usingslides, X-rays andscans • Visit to pathologylab, endoscopy unitandOT	• Shortanswer • Objectivetype

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ LearningActivities	Assessment Methods
			• Infectiveendocarditis **3. Gastrointestinaltract** • Pepticulcerdisease(GastricandDuodenalulcer) • Gastritis-HPylori infection • Oralmucosa:OralLeukoplakia,Squamousecellcarcinoma • Esophagealcancer • Gastriccancer • Intestinal:Typhoidulcer,InflammatoryBowel Disease (Crohn's disease andUlcerativecolitis),Colorectalcancer **4. Liver,GallBladderandPancreas** • Liver:Hepatitis,AmoebicLiverabscess,CirrhosisofLiver • Gallbladder:Cholecystitis. • Pancreas:Pancreatitis • Tumorsofliver,Gallbladderand Pancreas **5. Skeletalsystem** • Bone:Bonehealing,Osteoporosis,Osteomyelitis,Tumors • Joints: Arthritis - Rheumatoid arthritis andOsteoarthritis **6. Endocrinesystem** • DiabetesMellitus • Goitre • Carcinomathyroid		
III	7(T)	Describevariouslaboratory testsin assessmentand monitoringof diseaseconditions	**Hematologicaltestsforthediagnosisofblooddisorders** • Bloodtests:Hemoglobin,Whitecellandplateletcounts, PCV, ESR • Coagulation tests: Bleeding time (BT),Prothrombintime(PT),ActivatedPartialProthrombin Time(APTT) • Bloodchemistry • Blood bank: ○ Bloodgroupingandcrossmatching ○ Bloodcomponents ○ Plasmapheresis ○ Transfusionreactions **Note:**Fewlabhours canbeplannedforobservation and visits (Lessthan1credit,labhours arenotspecifiedseparately)	• Lecture • Discussion Visit to clinical lab,biochemistry labandblood bank	• Shortanswer Objectivetype

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Rimpi Bansal, Davinder Kaur, Textbook of pathology & genetics, Vision health sciences publication, 1st edition, 2021

2. Suresh Sharma, Textbook of pharma & pathology for nurses-I, Jaypee publication, 2nd edition-2022.

FNB130403- ADULT HEALTH NURSING-I

PLACEMENT:**IIISEMESTER**

THEORY:7Credits(140 hours)

PRACTICUM: Lab/SkillLab(SL)–1 Credit(40hours)Clinical–6Credits(480hours)

DESCRIPTION: Thiscourseisdesignedtoequipthestudentstoreviewandapply theirknowledgeofAnatomy,Physiology, Biochemistry and Behavioral sciences in caring for adult patients with Medical/Surgical disorders using nursingprocess approach and critical thinking. It also intends to develop competencies required for assessment, diagnosis, treatment,nursingmanagement,andsupportive/palliativecaretopatientswith variousMedicalSurgical disorders.

COMPETENCIES: OncompletionofMedicalSurgicalNursingIcourse,studentswillbeableto

1. Explaintheetiology,pathophysiology,manifestations,diagnosticstudies,treatmentsandcomplicationsofcommonmedical and surgicaldisorders.
2. Performcompletehealthassessmenttoestablishadatabaseforprovidingqualitypatientcareandintegratetheknowledgeofanatomy, physiologyanddiagnostictestsintheprocessofdatacollection.
3. Identifynursing diagnoses,listthemaccording toprioritysandformulatenursingcareplan.
4. Performnursingproceduresskillfullyandapplyscientificprincipleswhilegivingcomprehensivenursingcaretopatients.
5. Integrate knowledgeofpathology,nutritionandpharmacologyincaringforpatientsexperiencingvariousmedicalandsurgicaldisorders.
6. Identifycommondiagnosticmeasuresrelatedtothehealthproblemswithemphasisonnursingassessmentandresponsibilities.
7. Demonstrateskillinassisting/performingdiagnosticandtherapeuticprocedures.
8. Demonstratecompetencies/skillstopatientsundergoingtreatmentformedicalsurgicaldisorders.
9. Identifythedrugsusedintreatingpatientswithmedicalsurgicalconditions.
10. Planandgiverelevantindividualandgroupeducationonsignificantmedicalsurgicaltopics.
11. Maintainsafeenvironmentforpatientsandthehealthcarepersonnelinthehospital.
12. Integrateevidence-basedinformationwhilegivingnursingcaretopatients.

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActiv	Assessment Methods

				ities	
I	6(T) 4(L/SL)	Narratetheevolutionof medical surgicalnursing Applynursingprocessi n caring for patientswith medical surgicalproblems Execute the role of anurse in variousmedicalsurgical setting Developskillsinassess mentandcareofwound	**Introduction** • Evolutionandtrendsofmedicalandsur gicalnursing • Internationalclassificationof diseases • Rolesandresponsibilityofanursein medicalandsurgicalsettings o Outpatientdepartment o In-patientunit o Intensivecareunit • Introductiontomedicalandsurgicalas epsis o Inflammation,infection o Wound healing – stages,influencingfactor s Woundcareanddressingtech nique • Careofsurgicalpatient opre-operative opost-operative o Alternativetherapiesuse dincaringfor patients with Medical SurgicalDisorders	• Lecture cumdiscussi on • Demonstration &Practicesession • Roleplay • Visit to outpatientdepartmen t, inpatientandintensiv ecareunit	• ShortAnswer • OSCE
II	15(T) 4(L/SL)	Explain organizationalset up of the operatingtheatre Differentiatetheroleofs crub nurse andcirculating nurse Describe the differentpositioning for varioussurgeries Apply principles ofasepsis in handling thesterileequipment Demonstrate skill inscrubbingprocedures Demonstrate skill inassessing the patientand documentaccuratelyth esurgicalsafetycheckli st Develop skill inassistingwithselecte dsurgeries Explain the types,functions, and nursingconsiderationsfor different types ofanaesthesia	**IntraoperativeCare** • Organizationandphysicalsetupofth eoperation theatre o Classification o O.TDesign o Staffing o MembersoftheOTteam o Dutiesandresponsibilitiesofthen urseinOT • Positionanddrapingforcommonsu rgicalprocedures • Instruments, sutures and suturematerials,equipmentforcom monsurgicalprocedures • Disinfectionandsterilizationofe quipment • Preparationofsetsforcommonsu rgicalprocedures • Scrubbing procedures – Gowning,maskingandgloving • Monitoringthepatientduringthepr ocedures • Maintenanceofthetherapeutic	• Lecture cumDiscuss ion • Demonstration,Pract ice session, andCaseDiscussion Visit to receivingbay	• Caring forpatient intraoperati vely Submitalistofdisinf ectantsused forinstrumentswith the actionandprecautio n

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
			environmentin OT • Assisting in major and minoroperation,handlingspecimen • Preventionofaccidentsandhazardsin OT • Anaesthesia – types, methods ofadministration,effectsandstages ,equipment&drugs Legalaspects		
III	6(T) 4(L/SL)	Identify the signs andsymptoms of shock andelectrolyteimbalances Developskillsinmanaging fluid andelectrolyteimbalances	**Nursing care of patients withcommonsigns andsymptoms andmanagement** • Fluidandelectrolyteimbalance • Shock Pain	• Lecture, discussion,demonstration Casediscussion	• Shortanswer • MCQ Casereport
IV	18(T) 4(L)	Demonstrateskillinrespiratoryassessment Differentiates differentbreath sounds and liststheindications Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional,and nursingmanagement ofcommon respiratoryproblems Describe the healthbehaviourtobeadoptedin preventingrespiratoryillnesses	**NursingManagementofpatients withrespiratoryproblems** • Review of anatomy andphysiologyofrespiratorysystem • Nursing Assessment – historytaking,physicalassessmentanddiagnostictests • Commonrespiratoryproblems: ○ Upperrespiratorytractinfections ○ Chronicobstructivepulmonary diseases ○ Pleuraleffusion,Empyema ○ Bronchiectasis ○ Pneumonia ○ Lungabscess ○ Cystandtumors ○ ChestInjuries ○ Acuterespiratorydistresssyndrome ○ Pulmonaryembolism Healthbehaviourstopreventrespiratoryillness	• Lecture,discussion, • Demonstration • Practicesession • Casepresentation • VisittoPFTLab	• Essay • Shortanswer • OSCE

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
V	16(T) 5(L)	Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional, and nursingmanagement ofgastrointestinaldisorders Demonstrateskilling astrointestinalassessment Preparepatientforupper and lowergastrointestinalinvestigations Demonstrate skill ingastric decompression,gavage,andstomacare Demonstrate skill indifferentfeedingtechniques	**Nursing Management of patientswithdisorders ofdigestivesystem** • Review ofanatomyandphysiologyofGIsystem • Nursing assessment –History andphysicalassessment • GIinvestigations • CommonGIdisorders: ○ Oralcavity:lips,gumsandteeth ○ GI: Bleeding, Infections,Inflammation, tumors,Obstruction,Perforation&Peritonitis ○ Peptic&duodenalulcer, ○ Mal-absorption,Appendicitis, Hernias ○ Hemorrhoids,fissures,Fistulas Pancreas: inflammation, cysts,andtumors Liver: inflammation, cysts,abscess, cirrhosis, portalhypertension,hepaticfailure,tumors ○Gallbladder:inflammation,Cholelithiasis,tumors • Gastricdecompression,gavageandstoma care, different feedingtechniques Alternativetherapies,drugsusedintreatment of disorders of digestivesystem	• Lecture,Discussion • Demonstration, • Roleplay • Problem BasedLearning Visittostomaclinic	• Shortanswer • Quiz OSCE
VI	20(T) 5(L)	Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional, and nursingmanagement ofcardiovasculardisorders	**NursingManagementofpatients withcardiovascularproblems** • Review of anatomy andphysiology of cardio-vascularsystem • NursingAssessment:HistoryandPhysicalassessment • Invasive & non-invasive	• Lecture,discussion • Demonstration • Practicesession • CaseDiscussion • Healtheducation • Drug Book/prese	• Careplan • Drugrecord

		Demonstrateskillinc ardiovascularassess ment	cardiacprocedures • Disorders of vascular system-Hypertension, arteriosclerosis,Raynaud'sdiseas e,aneurysmandperipheralvascular disorders	ntation • **Completion ofBCLSModule**	• BLS/ BCLSeva

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActiv ities	Assessment Methods
		Preparepatientfori nvasive and non-invasive cardiacprocedures Demonstrate skill inmonitoring andinterpreting clinicalsignsrelatedtoc ardiacdisorders Complete BLS/BCLSmodule	• Coronary artery diseases:coronaryatherosclerosis ,Anginapectoris,myocardialinfar ction • Valvulardisorders:congenitala ndacquired • Rheumatic heart disease:pericarditis, myocarditis,endocarditis,cardi omyopathies • Cardiacdysrhythmias,heart block • Congestive heart failure,corpulmonale,pulmonarye dema,cardiogenic shock, cardiactamponade • Cardiopulmonaryarrest		
VII	7(T) 3(L)	Explain the etiology,pathophysiolo gy,clinical manifestations,diagnost ic tests, andmedical, surgical,nutritional, and nursingmanagement ofhematologicaldisorde rs Interpretbloodrep orts	**NursingManagementofpatients withdisordersofblood** • ReviewofAnatomyandP hysiologyofblood • Nursing assessment: history,physicalassessment&Diag nostictests • Anemia,Polycythemia BleedingDisorders:clottingfactordef ects and platelets defects,thalassemia,leukemia,leukop enia, agranulocytosis • Lymphomas,myelomas	• Field visit to bloodbank Counseling	• Interpretation ofbloodreports Visitreport
VIII	8(T) 2(L)	Explain the etiology,pathophysiolo gy,clinical manifestations,diagnos tic tests, andmedical, surgical,nutritional,and nursingmanagement ofendocrinedisorders	**Nursing management of patientswithdisordersofendocrinesys tem** • Review of anatomy and physiologyofendocrinesystem • Nursing Assessment –History andPhysicalassessment • Disorders of thyroid	• Lecture, discussion,demonst ration • Practicesession • CaseDiscussion • Healtheducation	• Prepare healtheducati ononself-administration ofinsulin • Submits adiabetic dietplan

		Demonstrate skill inassessmentofendocrineorgan dysfunction Prepareand provideshealth education ondiabeticdiet	andParathyroid,AdrenalandPituitary(Hyper,Hypo, tumors) Diabetesmellitus		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
IX	8(T) 2(L)	Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional,and nursingmanagement ofdisordersofintegumentarysystem Demonstrateskillinintegumentaryassessment Demonstrateskillinmedicated bath Prepare and providehealtheducationonskincare	**Nursing management of patientswith disorders of Integumentarysystem** • Review ofanatomyandphysiologyofskin • NursingAssessment:HistoryandPhysicalassessment • Infectionandinfestations; Dermatitis • Dermatoses;infectiousandNoninfectious • Acne,Allergies,Eczema&Pemphigus • Psoriasis, Malignant melanoma,Alopecia • Specialtherapies,alternativetherapies Drugs used in treatment ofdisordersofintegumentarysystem	• Lecture,discussion • Demonstration • Practicesession CaseDiscussion	• Drugreport Preparation ofHomecareplan
X	16(T) 4(L)	Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional,and nursingmanagement ofmusculoskeletaldisorders Prepare patient forradiological and non-radiologicalinvestigationsofmusculoskeletalsystem Demonstrateskillincrutch walking andsplinting	**Nursingmanagementofpatientswithmusculoskeletal problems** • ReviewofAnatomyandphysiologyofthemusculoskeletal system • NursingAssessment:Historyandphysical assessment, diagnostictests Musculoskeletal trauma:Dislocation,fracture,sprain,strain, contusion,amputation • Musculoskeletal infections andtumors:Osteomyelitis,benignandmalignanttumour • Orthopedicmodalities:Cast,splint,traction,crutchwalking • Musculoskeletal inflammation:Bursitis,synovitis, arthritis • Specialtherapies,alternativetherapies • Metabolic bone	• Lecture/ • Discussion • Demonstration • CaseDiscussion • Healtheducation	• Nursing careplan • Prepare healthteachingoncareof patient withcast

		Demonstrate skill incare of patient withreplacementsurgeries	disorder:Osteoporosis,osteomalaciaandPaget'sdisease • Spinal column defects anddeformities – tumor, prolapsedintervertebraldisc,Pott'sspine • Rehabilitation,prosthesis Replacementsurgeries		

Unit	Time (Hrs)	LearningOutcomes	Content	Teaching/ LearningActivities	Assessment Methods
XI	20(T) 3(L)	Explain the etiology,pathophysiology,clinical manifestations,diagnostic tests, andmedical, surgical,nutritional, and nursingmanagement of patientswith communicablediseases Demonstrate skill inbarrier and reversebarriertechniques Demonstrate skill inexecution of differentisolationprotocols	**Nursingmanagementofpatientswith Communicablediseases** • Overview of infectious diseases,theinfectiousprocess • NursingAssessment:HistoryandPhysical assessment, Diagnostictests • Tuberculosis • Diarrhoeal diseases, hepatitis A-E,Typhoid • Herpes,chickenpox,Smallpox, Measles,Mumps, Influenza • Meningitis • Gasgangrene • Leprosy • Dengue, Plague, Malaria,Chikungunya,swineflu,Filariasis • Diphtheria,Pertussis,Tetanus, Poliomyelitis • COVID-19 • Specialinfectioncontrolmeasures: Notification,Isolation,Quarantine, Immunization	• Lecture, discussion,demonstration • Practicesession • Case Discussion/seminar • Healtheducation • Drug Book/presentation **ReferTBControl& Management module**	Preparesand submitsprotocolonvariousisolationtechniques

Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs):

COs	POs/ PSOs
COs 1	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 2	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 3	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 4	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 5	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 6	**Pos-1,Pos-2/Psos-1-Psos-13**
COs 7	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 8	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 9	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 10	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 11	**Pos-1,Pos-2/Psos-1-Psos-13**
Cos 12	**Pos-1,Pos-2/Psos-1-Psos-13**

Reference Books:

1. Brunner and Suddarth's, Text Book of Medical Surgical Nursing, 9th edition, 2005, Lippincott Raven Publishers.
2. ohnLuckmann, Medical Surgical Nursing, 3rd edition, 1987, Saunders Company, Philadelphia, London
3. Jayce M. Black, Jane Hokanson Hawks, Medical Surgical Nursing- Clinical Mangement for positive outcomes, 7th edition, 2005, Elsevier, India.