



SRI VENKATESWARA COLLEGE OF NURSING

Recognized by Govt of AP and APNMC, Vijayawada

Accredited with 'A' Grade by NAAC, Bangalore

Approved by Indian Nursing Council, New Delhi

Affiliated to Dr.NTR University of Health Sciences, Vijayawada

RVS Nagar, Tirupathi Road, Chittoor – 517 127(A. P)

E.Mail : svcon.rvs@gmail.com, Website: www.svcon.org Ph.No:7729999174

LIST OF INTERDISCIPLINARY COURSES OFFERED IN THE ASSESSMENT PERIOD

S.No	Name of the Interdisciplinary Course	Course Code	Offered Year
1.	Nutrition	331	2020-2021
2.	Microbiology	334	
3.	Psychology	333	
4.	English	335	
5.	Introduction to Computers	INTERNAL	
6.	Regional Language(Telugu)	-	
7.	Pharmacology	338	
8.	Pathology	338	
9.	Genetics	338	
10.	Communication Education And Technology	340	
11.	Nursing Research & Statistics	346	

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S.No	Name of the Interdisciplinary Course	Course Code	Offered Year
1.	Nutrition	331	2019-2020
2.	Microbiology	334	
3.	Psychology	333	
4.	English	335	
5.	Introduction to Computers	INTERNAL	
6.	Regional Language(Telugu)	-	
7.	Pharmacology	338	
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1.	Nutrition	331	2018-2019
2.	Microbiology	334	
3.	Psychology	333	
4.	English	335	
5.	Introduction to Computers	INTERNAL	
6.	Regional Language(Telugu)	-	
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1.	Nutrition	331	2017-2018
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3.	Psychology	333	
4.	English	335	
5.	Introduction to Computers	INTERNAL	
6.	Regional Language(Telugu)	-	
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HAND BOOK FOR STUDENTS

B.Sc., NURSING (4 YEARS) COURSE REGULATIONS

(Subject to modification from time to time)



2018 – 2019

**Dr. N.T.R. UNIVERSITY OF HEALTH SCIENCES
VIJAYAWADA – 520 008**

13. COURSE OF STUDY

The Course of study and the scheme of examination for 4 YDC B.Sc., Nursing Degree shall be as follows.

Duration:

Course duration	:	4 Years
Weeks available per year	:	52 weeks
Vacation	:	08 weeks
Gazetted holidays	:	03 weeks
Examination (Including preparatory)	:	04 weeks
Available weeks	:	37 weeks
Hours per week	:	40
Practical	:	30 hours per week
Theory	:	10 hours per week
Internship practical	:	48 hours per week
Hours available per academic year	:	1480 (37 weeks × 40 hours)

14.


COURSE INSTRUCTIONS

First Year

	Subject	Theory (In hrs). (class and lab)	Practical (In hrs) (clinic)	(In hrs)
1.	*English	60		
2.	Anatomy	60		
3.	Physiology	60		
4.	Nutrition	60		
5.	Biochemistry	30		
6.	Nursing Foundations	265 + 200	450	
7.	*Psychology	60		
8.	*Microbiology	60		
9.	Introduction to Computers	45		
10.	**Hindi/Regional Language	30		
11.	Library Work/Self Study			50
12.	Co-curricular activities			50
	Total Hours	930	450	100
	Total Hours=1480 hrs			

* Minimum pass marks – 40%

** Optional subject


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Second Year

	Subject	Theory (In hrs). (class and lab)	Practical (In hrs) (clinic)	(In hrs)
1.	Sociology	-60		
2.	Pharmacology	45		
3.	Pathology and	30		
4.	Genetics	15		
5.	Medical-Surgical Nursing (Adult including Geriatrics)-I	210	720	
6.	Community Health Nursing-I	90	135	
7.	Communication and Educational Technology	60 + 30		
8.	Library Work/Self Study			50
9.	Co-curricular activities			35
	Total Hours	540	855	85
	Total hours = 1480 hrs			

Third Year

	Subject	Theory (In hrs) (class and lab)	Practical (In hrs) (clinic)	(In hrs)
1.	Medical-Surgical Nursing (Adult including Geriatrics)-II	150	270	
2.	Child Health Nursing	100	270	
3.	Mental Health Nursing	100	270	
4.	Midwifery and Obstetrical Nursing-I	40	180	
5.	Library Work/Self Study			50
6.	Co-curricular activities			50
	Total Hours	390	990	100
	Total hours = 1480 hrs			

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Fourth Year

	Subject	Theory (In hrs) (class and lab)	Practical (In hrs) (clinic)	(In hrs)
1.	Midwifery and Obstetrical Nursing- II & Practical	60	180	
2.	Community Health Nursing-II	90	135	
3.	Nursing Research & Statistics	45	*	
4.	Management of Nursing Services & education	60 + 30		
	Total hours	285	315	
	Total hours = 600 hrs			

Project Work Should be carried out during internship.

Internship (Integrated Practice)

Practical = 30 hours per week

	Subject	Theory (In hrs). (class and lab)	Practical (In hrs) (clinic)	(In hrs)
1.	Midwifery and Obstetrical Nursing		240	5
2.	Community Health Nursing-II		195	4
3.	Medical-Surgical Nursing (Adult including Geriatrics)		430	9
4.	Child Health		145	3
5.	Mental Health		95	2
6.	Research Project		45	1
	Total Hours		1150	24
	Total hours = 1174 hrs			

Note :

1. Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
2. Internship should be carried out as 8 hours per day @ 48 hours per week.
3. Students will be supervised by nursing teachers during internship.
4. Fourth year final examination will be held only after completing internship.


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NUTRITION

Time : 40 hrs
Practical : 20 hrs
Total : 60 hrs.

Placement : First Year

Course Description: The course is designed to assist the students to acquire knowledge of nutrition for maintenance of optimum health at different stages of life and its application for practice of nursing.

Learning Objectives:

- Describe the relationship between nutrition & health.
- Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates, Fats, Proteins, Vitamins, Minerals.
- Describe the sources, functions and requirements of Water & electrolytes.
- Describe the cookery rules and preservation of nutrients.
- Prepare and serve simple beverages and different types of foods.
- Describe and plan balanced diet for different categories of people.
- Describe various national programme related to nutrition.
- Describe the role of nurse in assessment of nutritional status and nutrition education.


Content:

Unit – 1

Hours: 04(T)

Introduction

- Nutrition: History, concepts.
- Role of nutrition in maintaining health.
- Nutritional problems in India
- National nutritional policy.
- Factors affecting food and nutrition: Socio-economic, cultural, tradition, production, system of distribution, lifestyle and food habits etc.
- Role of food and its medicinal value.


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- Classification of foods.
- Food standards.
- Elements of nutrition: macro and micro
- Calorie, BMR.

Unit – 2

Hours: 02(T)

Carbohydrates :

- Classification
- Caloric value
- Recommended daily allowances.
- Dietary sources
- Functions
- Digestion, absorption and storages, metabolism of carbohydrates
- Malnutrition: deficiencies and over consumption.

Unit – 3

Hours: 02(T)

Fats:

- Classification.
- Caloric value
- Recommended daily allowances
- Dietary sources
- Functions
- Digestion, absorption, metabolism and storage
- Malnutrition: deficiencies and over consumption.

Unit – 4

Hours: 02(T)

Proteins:

- Classification.
 - Caloric value
 - Recommended daily allowances
-

- Dietary sources
- Functions
- Digestion, absorption, metabolism and storage
- Malnutrition: deficiencies and over consumption.

Unit – 5

Hours: 03(T)

Energy:

- Unit of Energy – kcal
- Energy requirements of different categories of people
- Measurements of energy
- Body mass index (BMI) and basic metabolism.
- Basal metabolic rate (BMR)
- Determination and factors affecting.

Unit – 6

Hours: 04(T)

Vitamins:

- Classification.
- Recommended daily allowances.
- Dietary sources
- Functions
- Absorption, synthesis, metabolism, storage and excretion
- Deficiencies
- Hypervitaminosis.

Unit – 7

Hours: 04(T)

Minerals:

- Classification.
- Recommended daily allowances
- Dietary sources
- Functions.

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- Absorption, synthesis, metabolism storage and excretion
- Deficiencies.
- Over consumption and toxicity.

Unit – 8

Hours: 03(T)

Water & Electrolytes:

- Water: Daily requirement, regulation of water, metabolism, distribution of body water.
- Electrolytes: Types, sources, composition of body fluids.
- Maintenance of fluid & electrolyte balance.
- Over hydration, dehydration and water intoxication.
- Electrolyte imbalances.

Unit – 9

Hours: 05(T), 15(P)

Cookery Rules and Preservation of Nutrients:

- Principles, methods of cooking and serving: Preservation of nutrients.
- Safe food handling-toxicity
- Storage of food.
- Food preservation, food additives and its principles.
- Prevention of food adulteration Act (PFA).
- Food standards.
- Preparation of simple beverages and different types of food.

Unit – 10

Hours: 07(T), 05(P)

Balanced Diet:

- Elements
 - Food groups
 - Recommended daily allowances
 - Nutritive value of foods
 - Calculation of balanced diet for different categories of people
-

- Planning menu
- Budgeting of food
- Instruction of therapeutic diets: Naturopathy – diet

Unit – 11

Hours: 04(T)

Role of Nurse in Nutritional Programmes:

- National programmes related to nutrition
 - Vitamin A deficiency programme
 - National iodine deficiency disorders (IDD) programme.
 - Mid-day meal programme.
 - International child development scheme (ICDS)
- National and international agencies working towards food/nutrition
 - NIPCCD, CARE, FAO, CFTRI (Central food technology and research institute) etc.
- Assessment of nutritional status
- Nutrition education and role of nurse.

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Explaining using charts
- Panel discussion
- Exercise
- Practice session
- Meal planning
- Explaining with Slide/Film shows.

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MICROBIOLOGY

Placement : First Year

Time : 60 Hours (Theory 45+15 Lab)

Course Description :

This course is designed to enable students to acquire understanding of fundamentals of microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Learning Objectives :

- Explain concepts and principles of microbiology and their importance in nursing.
- Describe structures, classification morphology and growth of bacteria.
- Identify micro-organisms.
- Describe the methods of infection control.
- Identify the role of nurse in hospital infection control programme.
- Describe the different disease producing organisms.
- Explain the concept of immunity, hyper sensitivity and immunization.

Content :

Unit - 1

Hours : 02(T)

Introduction.

- Importance of Microbiology - Relevance to nursing.
- Historical perspective.
- Principles, Concepts, terminology and Scope.

Unit - 2

Hours : 05(T)

General Characteristics of Bacteria.

- Structure and classification of bacteria.
- Demonstration of Bacteria : Microscopy and staining.
- Bacteria Cell : size and form, parts of bacterial cell.
- Growth and nutrition of bacteria.


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- Culture media.
- Laboratory methods of identification of bacteria.
- Antibiotic Sensitivity Testing : Diffusion and dilution tests in brief.
- Bacterial colonization on various parts of the body.
- Collection and transport of clinical samples of laboratory.

Unit - 3

Hours : 10(T)

Infection Control.

- Infection : Definition, types, sources, modes of transmission, types of infectious diseases.
- Asepsis and Disinfection : Various chemical disinfectants used in hospitals, fumigation.
- Sterilization methods practiced in hospitals.
- Chemotherapy and Antibiotics : Mode of action, choice of an antibiotic for treatment, empiric therapy, drug resistance, antibiotic prophylaxis.
- Standard bio-safety measures.
- Hospital Waste Management : Sources, classification of health care waste (biomedical waste), health hazards from biowaste, management of biowaste.
- Role of Nurse in Infection Control
- Hospital Acquired Infection, Modes of spread, types and predisposing factors investigation and surveillance.

Unit - 4

Hours : 08 (T)

Immunity.

- Immunology : Definitions and Terms.
 - Immunity : Innate immunity, acquired immunity.
 - Antigen - Antibody Reactors : Precipitation, agglutination, ELISA.
 - Hypersensitivity : Type I, II, III, IV hypersensitivity reactions, Mantoux test (Tuberculin test)
 - Immuno-prohylaxis : Vaccines, sera, storage and handling and hazards of immunization.
-

Unit - 5

Hours : 07 (T)

Pathogenic Bacteria : Pathogenicity, laboratory diagnosis and prophylaxis.

- Introduction.
- Gram Positive Cocci : Staphylococci, Sterptococci, Pneumo
- Gram Negative Cocci : Meningococci, gonococci.
- Gram Positive Bacilli : Corynebacterium diphtheria, Colstridium tetani, Clostridium perfringens, clostridium botulinum, bacillus anthracis, bacillus cereus
- Gram Negative Bacilli :
 - Group I : Intestinal Gram Negative Bacilli : E.coil, Klebsiella, Proteus, Salmonella, Shigella.
 - Group II : Non Intestinal Gram Negative Bacilli : Bordetella, Hemophilus.
 - Group III : Gram Negative Curved Bacilli (Vibrio cholera)
- Acid Fast Bacilli : Mycobacterium tuberculosis, Mycobacterium leprae
- Spiral Bacteria (Spirochaetes) : Treponema pallidum Borrelia recurrentis, borrelia vincentii, Leptospira icterohemorrhgica
- Rickettsiae
- Chlamydiae
- Mycoplasma.

Unit - 6

Hours : 05 (T)

Pathogenic Viruses : Pathogenicity, laboratory diagnosis and prophylaxis.

- General Properties of Viruses : Structures, resistance of virus, viral multiplication, virus, cultivation, taxonomic classification of viruses, interferons, inclusion bodies, antiviral agents.
- Specimen collection and transport for viral diseases.



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- RNA Viruses : Poliomyelitis virus, influenza virus, mumps virus, rubella virus, rabies virus, Japanese encephalitis virus, dengue virus, KFD virus, chikungunya virus.
- DNA Viruses : Variola, Molluscum contagiosum, varicella zoster virus (VZV), Epstein-Barr virus, adenoviruses, papilloma virus.
- Viral Hepatitis : Hepatitis viruses, A, B, C, D, E.
- Rota virus
- Sars virus
- Human Immuno Deficiency Virus (HIV).

Unit - 7

Hours : 03 (T)

Pathogenic Fungi : Pathogenicity, clinical picture, laboratory diagnosis, prevention.

- Introduction : Pathogenic and opportunistic fungi, classification, antifungal agents.
- Superficial mycoses : Piedra, tinea versicolor, tinea nigra.
- Cutaneous mycoses : Dermatophytosis, candidiasis.
- Subcutaneous mycoses : Mycetoma, rhinosporidiosis.
- Systemic mycoses : Histoplasmosis, cryptococcosis, rhino orbito cerebral phycomycosis.
- Opportunistic mycoses : Otomycosis, oculomycosis, pulmonary aspergillosis.
- Mycetism and mycotoxicosis.

Unit - 8

Hours : 04 (T)

Parasites : Mode of infection, pathogenicity, clinical picture, laboratory diagnosis

- Protozoal Infections : Amoebiasis, trichomoniasis, trypanosomiasis, leishmaniasis, malaria, toxoplasmosis, pneumocystis jirovecii, cryptosporidium parvum.

- Nematode Infection : Ascaris lumbricoides, ancylostoma duodenale, enterobius vermicularis, trichuris trichiura, strongyloides stercoralis, wuchereria bancrofti, dracunuculus medinensis.
- Cestode Infections : Taenia saginata and taenia solium, diphyllbothrium latum.
- Trematode infections : Schistosoma hematobium, fasciola hepatica, fasciolopsis buskii, chonorchis sinensis, paragonimus westermanii.

Unit - 9

Hours : 01 (T)

Rodents and Vectors :

Unit - 10

Hours : 15 (P)

Demonstration of Practical Procedures in Microbiology :

- Microscopy : Types, parts, uses of microscope.
- Hanging Drop Preparation : Procedure
- Simple Staining : Procedure
- Gram's Staining : Procedure, composition of Stains.
- Ziehl Neelsen's Staining (Acid Fast Staining) : Procedure, Composition of Strains.
- Albert's staining : Procedure, composition of Strains
- Widal Test.
- VDRL Test.
- Culture and sensitivity Test.

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PSYCHOLOGY

Placement : First Year

Time : Lecture - 60 Hours

Course Description : This course is designed to assist students to acquire knowledge of fundamentals of psychology and develop an insight into behaviour of self and others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing practice.

Learning Objectives :

- Describe the history, scope and methods of psychology.
- Explain the biology of human behaviour.
- Describe various cognitive processes and their applications.
- Describe motivation, emotions, stress, attitudes and their influence on behaviour.
- Explain the concepts of personality and its influence on behaviour
- Describe the psychology of people during the lifecycle
- Describe the characteristics of mentally healthy person.
- Explain ego defence mechanisms.
- Explain the psychological assessments and role of nurse

Content :

Unit - 1

Hours : 02

Introduction.

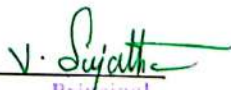
- History and origin of science of psychology
- Define & scope of psychology
- Relevance to nursing
- Methods of psychology.

Unit - 2

Hours : 04

Biology of Behavior:

- Body mind relationship modulation process in health and illness


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- Genetics and behaviour : heredity and environment
- Brain and behaviour : nervous system, neurons and synapse
- Association cortex, Rt and Lt hemispheres.
- Psychology of sensations.
- Muscular and glandular controls of behaviour
- Nature of behaviour of an organism/integrated responses.

Unit - 3

Hours : 20

Cognitive Processes:

- Attention: types, determinants, duration, & degree, alterations
- Perception: meaning, principles, factors affecting, errors
- Learning: nature, types, learner and learning, factors influencing, laws and theories process, transfer, study habits.
- Memory: meaning, types, nature, factors influencing, development, theories and methods of memorizing and forgetting.
- thinking: types and levels, stages of development, relationship with language and communication.
- Intelligence: meaning, classification, uses, theories.
- Aptitude: concept, types, individual differences and variability.
- Psychometric assessments of cognitive processes.
- Alterations in cognitive processes.
- Applications.

Unit - 4

Hours : 08

Motivation and Emotional Processes.

- Motivation: meaning, concepts, types, theories, motives and behaviour, conflicts and frustration, conflict resolution.
- Emotions & stress
 - Emotion: definition, components, changes in emotions, theories, emotional adjustments, emotions in health and illness.
 - Stress: stressors, cycle, effects, adaptation & coping.

- Attitude: meaning, nature, development, factors affecting
 - Behaviour and attitudes
 - Attitudinal change
- Psychometric assessments of emotions and attitudes
- Alterations in emotions.
- Applications.

Unit - 5

Hours : 07

Personality :

- Definitions, topography, types, theories
- Psychometric assessments of personality
- Alterations in personality
- Applications

Unit - 6

Hours : 07

Developmental Psychology:

- Psychology of people at different ages from infancy to old age.
- Psychology of vulnerable individuals – challenged, women, sick, etc.
- Psychology of groups.

Unit - 7

Hours : 08

Mental Hygiene and Mental Health :

- Concepts of mental hygiene and mental health.
- Characteristics of mentally healthy person.
- Warning signs of poor mental health
- Promotive and preventive mental health – strategies and services
- Ego defence mechanisms and implications
- Personal and social adjustments
- Guidance and counseling
- Role of nurse.


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ENGLISH

Placement : First Year

Time : 60 Hours

Course Description : The Course is designed to enable students to enhance ability to comprehend spoken and written English (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 experiences.

Learning Objectives :

- Speak and write grammatically correct English
- Develop ability to read, understand and express meaningfully, the prescribed text.
- Develop writing skills.
- Develop skill in spoken English.
- Develop skill in listening comprehension.

Content :

Unit - 1

Hours : 10

- Review of grammar
- Remedial study of grammar
- Building vocabulary
- Phonetics
- Public speaking

Unit - 2

Hours : 30

- Read and comprehend prescribed course books

Unit - 3

Hours : 10

- Various forms of composition
- Letter writing

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- Note taking
- Précis writing
- Nurses notes
- Anecdotal records
- Diary writing
- Reports on health problems etc.
- Resume/CV

Unit - 4

Hours : 06

- Spoken English
- Oral report
- Discussion
- Debate
- Telephonic conversation

Unit - 5

Hours : 04

- Listening comprehension
- Media, audio, video, speeches etc.

Teaching and learning activities:

- Demonstrate use of dictionary
 - Class-room conversation, telephonic conversation
 - Exercise on reading, summarizing, comprehension, use of grammar.
 - Practice in public speaking.
 - Exercise on writing: Letter writing, Nurses notes, Precis, Diary, Anecdote, Health problems, Story writing, Resume/CV
 - Debating
 - Listening to audio, video tapes and identify the key points
 - Essay writing: discussion on written reports/documents
 - Participating in seminar, panel, symposium
-

INTRODUCTION TO COMPUTERS

Placement : First Year

Time : Lecture / Lecture Demonstration - 45 Hours
(Theory - 15 hours, Practical - 30 hours)

Course Description : The Course is designed for students to develop basic understanding of uses of computer and its applications in nursing.

Learning Objectives :

- Identify and define various concepts used in computer.
- Identify application of computer in nursing.
- Describe and use the desk operating system.
- Demonstrate skill in the use of MS-Office, multimedia.
- Identify features of computer aided teaching and testing.
- Demonstrate use of internet and email.
- Describe and use the statistical packages.
- Describe the use of hospital management system.

Content :

Unit - 1

Hours : 03(T)

Introduction:

- Concepts of computers
- Hardware and software; trends and technology
- Application of computer in nursing.

Unit - 2

Hours : 06(T), 20(P)

Introduction to Disk-Operating System:

- DOS, windows (all version)
- Introduction: MS-Word, MS-Excel with pictorial presentation, MS-PowerPoint, MS-Access


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UNIT – 3 Hours: 02 (T), 03 (P)
Multimedia; types & uses: Computer aided teaching & testing

UNIT – 4 Hours: 01 (T), 03 (P)
Use of Internet and E-mail

UNIT – 5 Hours: 02 (T), 02 (P)
Statistical packages: Types and their features

UNIT – 6 Hours: 01 (T), 02 (P)
Hospital management system: Types and uses

Teaching and Learning Activities:

- Lecture discussion / demonstration
- Practice session

Assessment methods:

- Short answers
- Objective type
- Practical exam and Viva voice

BOOKS LIST

Sl.No.	Prescribed Author	Title	Publisher
Computers (Prescribed)			
1.	Dr. M.V.S.S.N. Prasad	Introduction to Computers	Florence Publishers
References			
1.	Kusum Samant	Basic Computer Training for Nurses	Vora Medicals
2.	Nagendra Reddy	Computer Education for B.Sc. Nursing	Frontline Publications

PHARMACOLOGY

Placement – Second Year

Time: Lecture/Lecture Demonstration – 45Hours

Course Description: This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics, Principles of therapeutics and nursing implications.

Learning Objectives:

- Describe Pharmacodynamics, Pharmacokinetics, classification and the principles of drug administration
- Explain chemotherapy of specific infections and infestations and nurse's responsibilities
- Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities
- Describe drugs acting on Gastro Intestinal System and nurse's responsibilities
- Describe drugs used on Respiratory Systems and nurse's responsibilities
- Describe drugs used on Urinary System and nurse's responsibilities
- Describe drugs used on skin and mucous membranes and nurse's responsibilities
- Describe drugs used in De addiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immune-suppression and nurse's responsibilities
- Describe drugs used on Nervous System and nurse's responsibilities
- Describe drugs used on Cardio-Vascular System and nurse's responsibilities
- Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities
- Demonstrate awareness of the common drugs used in alternative system of medicine

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Content:

UNIT – 1

Hours: 03

General Pharmacology:

- Sources of drugs
- Routes of Drug Administration: Enteral, Parenteral
- Pharmacokinetics: Absorption, Distribution, Metabolism, interaction & Excretion
- Pharmacodynamics: Drug Dependence, Drug Inter Actions & Adverse Drug Reactions
- Therapeutic Drug Monitoring (TDM), Therapeutic Window, Drug Development & Essential Drug Concept (brief)
- Rational use of drugs

UNIT – 2

Hours: 08

Chemotherapy (Dose, Administration, Pharmacological effects, Side effects, Toxicity, role of nurse):

- Pencillins and cephalosporins
 - Sulfonamides and Co-Trimoxazole
 - Quinolones and Fluoro Quinolones
 - Beta-Lacam Antibiotics
 - Aminoglycosides Antibiotics
 - Macrolide Antibiotics and Other Miscellaneous
 - Broad Spectrum Antibiotics
 - Chemotherapy of Urinary Tract Infections
 - Chemotherapy of Tuberculosis Primary and Secondary line of drugs. DOTS
 - Chemotherapy of Leprosy : Drugs for Leprosy, Dapsone (DDS), Clofazimine & Rifampicin
 - Antifungal and antiviral agents
 - Drugs for Protozoal Infections
 - Antimalarial
 - Anti helminthic drugs
-

- Antiseptics & Disinfectants
- Cancer Chemotherapy
- Immuno Suppressants, Immuno Stimulants (brief)
- Ectoparasitides

UNIT – 3

Hours: 02

Drugs of GIT:

- Drugs Used in Peptic Ulcer
- Emetics & Antiemetics
- Drugs in Constipation
- Drugs used in the Treatment of Diarrhoeas

UNIT – 4

Hours: 02

Respiratory System (brief):

- Respiratory System : Drugs for Bronchial asthma, Anti Tussives

UNIT – 5

Hours: 08

Central Nervous System & Autonomic Nervous System:

- General Anaesthetics, Local Anaesthetics (brief)
- Antiepileptics
- CNS Stimulants
- Analgesics and antipyretics
- Non-Steroidal Anti Inflammatory Drugs
- Hypnotics & Sedatives: opioid and nonopioid
- AntiPsychotics and antimaniac drugs
- Antidepressant and antianxiety drugs
- Cholinergics and anticholinergics
- Skeletal muscle relaxants
- Antiparkinsonism drugs

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PATHOLOGY

Section A-Pathology

Placement – Second Year

Time: Lecture / Lecture Demonstration – 30 Hours
(Theory – 20 hours Practical – 10 hours)

Course Description: This course is designed to enable students to acquire knowledge of pathology, of various disease conditions and apply this knowledge in practice of nursing.

Learning Objectives:

- Define the common terms used in pathology
- Appreciate the deviations from normal to abnormal: structure and functions of the body system
- Explain pathological changes in disease conditions of various systems
- Describe various laboratory tests in assessment and monitoring of disease conditions
- Describe the laboratory tests for examination of body cavity fluids: transudates and exudates
- Describe the laboratory tests for examination of Urine and faeces

Content:

UNIT – 1

Hours: 03 (T)

Introduction:

- Introduction
 - Importance of the study of pathology
 - Definition of terms
 - Methods and techniques
 - Cellular and tissue changes
 - Infiltration and regeneration
 - Inflammations and infections
-

- Wound healing
- Vascular changes
- Cellular growth, Neoplasms
 - Normal and Cancer cell
 - Benign and malignant growths
 - In situ carcinoma
- Disturbances of fluid and electrolyte balance

UNIT – 2

Hours: 10 (T), 05 (P)

Special Pathology: pathological changes in disease conditions of various systems: (in brief)

- Respiratory tract
 - Tuberculosis, bronchitis, pleural effusion and pneumonia
 - Lung abscess, emphysema, bronchiectasis
 - Bronchial asthma, chronic obstructive pulmonary disease, tumours
- Cardiovascular system
 - Pericardial effusion
 - Rheumatic heart disease
 - Infective endocarditis, atherosclerosis
 - Ischemia, infarction & aneurysm
- Gastro intestinal tract
 - Peptic ulcer, typhoid
 - Carcinoma of GI tract: buccal, esophageal, gastric & intestinal
- Liver, gall bladder & pancreas
 - Hepatitis, chronic liver abscess, cirrhosis
 - Tumours of liver, gall bladder and pancreas
 - Cholecystitis


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- Kidneys & urinary tract
 - Glomerulonephritis, pyelonephritis
 - Calculi, renal carcinoma & cystitis

- Male genital system
 - Cryptorchidism, testicular atrophy
 - Prostatic hyperplasia, carcinoma penis & prostate

- Female genital system
 - Fibroids
 - Carcinoma cervix and endometrium
 - Vesicular mole, choriocarcinoma
 - Ectopic gestation
 - Ovarian cyst & tumours
 - Cancer breast

- Central nervous system
 - Hydrocephalus, meningitis, encephalitis
 - Vascular disorders – thrombosis, embolism
 - Stroke, paraplegia, quadriplegia
 - Tumours, meningiomas, gliomas
 - Metastatic tumour

- Skeletal system: Bone healing, osteoporosis, osteomyelitis, arthritis & tumours

UNIT – 3

Hours: 04 (T), 03 (P)

Clinical Pathology: Various blood and bone marrow tests in assessment and monitoring of disease conditions: principle, procedure, reading of the result

- Hemoglobin
 - RBC, white cell & platelet counts
 - Bleeding time, clotting time and prothrombin time
-

- Blood grouping and cross matching
- Blood culture
- Serological and immunological tests
- Other blood tests
- Examination of bone marrow
- Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

UNIT – 4

Hours: 02(T), 01(P)

Examination of Body Cavity Fluids, Transudates and Exudates:

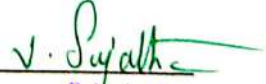
- Laboratory tests used in CSF analysis
- Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge etc
- Analysis of gastric and duodenal contents
- Analysis of semen-sperm count, motility and morphology and their importance in infertility
- Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

UNIT – 5

Hours: 01 (T), 01 (P)

Urine and Faeces:

- Urine
 - Physical characteristics
 - Analysis
 - Culture and sensitivity
- Faeces
 - Characteristics
 - Stool examination: occult blood, ova, parasite and cyst, reducing substances etc
 - Methods of collection for various tests, inference and normal values


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SECTION- B GENETICS

Placement: Second Year

Time: Lecture / Lecture Demonstration – 15Hours

Course Description: This course is designed to enable students to acquire understanding of Genetics, its role in causation and management of defects and diseases.

Learning Objectives:

- Explain nature, principles and perspectives of heredity
- Explain maternal, prenatal and genetic influences on development of defects and diseases
- Explain the screening methods for genetic defects and diseases in neonates and children
- Identify genetic disorders in adolescents and adults
- Describe the role of nurse in genetic services and counseling

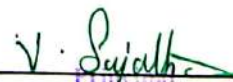
Content:

UNIT – 1

Hours: 03

Introduction:

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



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UNIT – 2

Hours: 03

Maternal, Prenatal and Genetic Influences on Development of Defects and Diseases:

- Conditions affecting the mother: genetic and infections
- Consanguinity, atopy
- Prenatal nutrition and food allergies
- Maternal age
- Maternal drug therapy
- Prenatal testing and diagnosis
- Effect of radiation, drugs and chemicals
- Infertility
- Spontaneous abortion
- Neural Tube Defects and the role of folic acid in lowering the risks
- Down's syndrome (Trisomy 21)

UNIT – 3

Hours: 02

Genetic Testing in the Neonates and Children:

Screening for Congenital abnormalities, Developmental delay, Dysmorphism

UNIT – 4

Hours: 02

Genetic Conditions of Adolescents and Adults:

- Cancer genetics – familial cancer
- Inborn errors of metabolism
- Blood group alleles and haematological disorder
- Genetic haemochromatosis
- Huntington's disease
- Mental illness

UNIT – 5

Hours: 05

Services Related to Genetics:

- Genetic testing, human genome project, gene therapy, the eugenics movement, genetic counseling, legal and ethical issues
 - Role of nurse
-

SOCIOLOGY

Placement – Second Year

Time: Lectures – 60 Hours

Course Description: This course is designed to introduce the concepts of sociology related to community and social institutions in India and its relationship with health, illness and nursing.

Learning Objectives:

- State the importance of sociology in nursing
- Describe the interrelationship of individual in society and community
- Describe the influence of culture on health and disease
- Identify various social groups and their interactions
- Explain the growth of population in India and its impact on health
- Describe the institutions of family and marriage in India
- Describe the class and caste system and their influence on health and health practices
- Describe the types of communities in India, their practices and the impact on health
- Explain the process of social change
- Describe the Social system and interrelationship of social organizations
- Explain the nature and process of social control
- Describe the role of the nurse in dealing with social problems in India.

Content:

UNIT – 1

Hours: 01

Introduction:

- Definition of sociology
- Nature and scope of the discipline
- Importance and application of Sociology in nursing

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UNIT – 2

Hours: 03

Individual & Society:

- Society and community
- Nature of society
- Difference between society and community
- Process of socialization and individualization
- Personal disorganization

UNIT – 3

Hours: 03

Culture:

- Nature of culture
- Evolution of culture
- Diversity and uniformity of culture
- Culture and socialization
- Transcultural society
- Influence on health and disease

UNIT – 4

Hours: 04

Social Groups and Processes:

- The meaning and classification of groups
- Primary & secondary
- In-group V/S, out-group, class, tribe, caste
- Economic, political, religious groups, mob, crowd, public and audience interaction & social processes
- Co-operation, competition, conflict
- Accomodation, assimilation & isolation

UNIT – 5

Hours: 06

Population:

- Society and population
 - Population distribution in India – demographic characteristics
-

- Malthusian theory of populations
- Population explosion in India and its impact on health status
- Family welfare programmes

UNIT – 6

Hours: 05

Family and Marriage:

- Family- Functions
- Types- Joint, nuclear, blended and extended family characteristics
- The modern family – Changes, problems-dowry etc., welfare services
- Changes & legislations on family and marriage in India – marriage acts
- Marriage: Forms and functions of marriage
- Marriage and family problems in India
- Family, marriage and their influence on health and health practices

UNIT – 7

Hours: 07

Social Stratification:

- Meaning & types of social stratification
- The Indian caste system- origin & features
- Features of caste in India today
- Social class system and status
- Social mobility-meaning & types
- Race as a biological concept, criteria of racial classification
- Salient features of primary races-Racism
- Influence of class, caste and race on health and health practices

UNIT – 8

Hours: 06

Types of Communities in India (Rural, Urban and Regional):

- Features of village community & characteristics of Indian villages-Panchayat system, social dynamics
- Community development project & planning

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- Changes in Indian rural life
- Availability of health facilities in rural and its impact on health and health practices
- Urban – community-features
- The growth of cities:
- Urbanization and its impact on health and health practices
- Major urban problems- urban slums
- Region: problems and impact on health

UNIT – 9

Hours: 04

Social Change:

- Nature and process of Social Change
- Factors influencing social change: cultural change, cultural lag
- Introduction to theories of social change: linear, cyclical, Marxian, functional
- Role of nurse-change agents

UNIT – 10

Hours: 04

Social Organization and Social System:

- Social organization: elements, types
- Democratic and authoritarian modes of participation
- Voluntary associations
- Social system: definition and types of social system
- Role and status as structural elements of social system
- Inter-relationship of institutions

UNIT – 11

Hours: 02

Social Control:

- Nature and process of social control
 - Political, legal, religious, educational, economic, industrial and technological systems, norms & values- folkways & mores customs, laws and fashion
 - Role of nurse
-

COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: Second Year

Time: Lecture/Lecture demonstration – 90 hours

(Theory – 60 hours Practical – 30 hours)

Course Description: This course is designed to help the students acquire an understanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal relations, teaching individuals and groups in clinical, community health and educational settings.

Learning Objectives:

- Describe the communication process
- Identify techniques of effective communication
- Establish effective inter-personal relations with patients, families & co-workers
- Develop effective human relations in context of nursing
- Develop basic skill of counseling and guidance
- Describe the philosophy & principles of education
- Explain the teaching learning process
- Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings
- Prepare and use different types of educational media effectively
- Prepare different types of questions for assessment of knowledge, skills and attitudes
- Teach individuals, groups and communities about health with their active participation


Content:

UNIT – 1

Hours: 05 (T)

Review of Communication Process:

- Process, elements and channel
- Facilitators


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- Barriers and methods of overcoming
- Techniques

UNIT – 2

Hours: 05 (T)

Interpersonal Relations:

- Purpose & types
- Phases
- Barriers and methods of overcoming
- Johari window

UNIT – 3

Hours: 05 (T)

Human Relations:

- Understanding self
- Social behavior, motivation, social attitudes
- Individual and groups
- Human relations in context of nursing
- Group dynamics
- Team work

UNIT – 4

Hours: 10 (T), 05 (P)

Guidance & Counseling:

- Definition, purpose, scope and need
 - Basic principles
 - Organization of counseling services
 - Types of counseling approaches
 - Role and preparation of counselor
 - Issues for counseling in nursing: students and practitioners
 - Counseling process – steps & techniques, tools of counselor
 - Managing disciplinary problems
 - Management of crisis & referral
-

UNIT – 5

Hours: 05 (T)

Principles of Education & Teaching Learning Process:

- Education: meaning, philosophy, aims, functions & principles
- Nature and characteristics of learning
- Principles and maxims of teaching
- Formulating objectives: general and specific
- Lesson planning
- Classroom management

UNIT – 6

Hours: 10 (T), 10 (P)

Methods of Teaching:


- Lecture, demonstration, group discussion, seminar, symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching problem based learning, self instructional module and simulation etc.
- Clinical teaching methods: case method, nursing round & reports, bedside clinic, conference (individual & group), process recording.

UNIT – 7

Hours: 10 (T), 08 (P)

Educational Media:

- Purposes & types of A.V. Aids, principles and sources etc.
- Graphic aids: chalk board, chart, graph, poster, flash cards, flannel graph, bulletin, cartoon
- Three dimensional aids: objects, specimens, models, puppets
- Printed aids: pamphlets & leaflets
- Projected aids: slides, overhead projector, films, TV, VCR/VCD, camera, microscope, LCD
- Audio aids: tape/recorder, public address system
- Computer


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NURSING RESEARCH AND STATISTICS

Placement: Fourth Year Internship

Time: Theory 45 hours

Practical: 45 hours

Course Description: This Course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further structured to conduct/participate in need based research studies in various setting and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting individual/group research project.

Learning Objectives:

- Describe the concept of research, terms, need and areas of research in nursing.
- Explain the steps of research process
- Identify and state the research problem and objectives
- Review the related literature
- Describe the research approaches and designs
- Explain the sampling process
- Describe the methods of data collection
- Analyze, interpret and summarize the research data
- Explain the use of statistics, scales of measurement and graphical presentation of data
- Describe the measures of central tendency, variability and methods of correlation.
- Communicate and utilize the research findings.

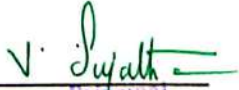
Content:

UNIT-1

Hours: 04

Research and Research Process:

- Introduction and need for nursing research
- Definition of Research and nursing research


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- Steps of scientific method
- Characteristics of good research
- Steps of Research process – overview

UNIT-2

Hours: 03

Research Problem/Question:

- Identification of problem area
- Problem statement
- Criteria of a good research problem
- Writing objectives

UNIT-3

Hours: 03

Review of Literature:

- Location, Sources, Online search, CINHAI, COCHRANE etc.
- Purposes, Method of Review

UNIT-4

Hours: 04

Research Approaches and Designs:

- Historical, survey and experimental – Qualitative and Quantitative designs.

UNIT-5

Hours: 08

Sampling and Data Collection:

- Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling techniques.
 - Data – why, what, from whom, when and where
 - Data collection methods and instruments: Methods of data, Questioning, Observations, record analysis and Types of instruments, Validity & Reliability of the instrument, pilot study, Data collection procedure
-

UNIT-6**Hours: 04****Analysis of Data:**

- Compilation, Tabulation, summarization, interpretation of data.

UNIT-7**Hours: 15****Introduction to Statistics:**

- Definition, use of statistics, scales of measurement.
- Frequency distribution and graphical presentation of data.
- Mean, Median, Mode, Standard deviation
- Normal Probability and tests of significance
- Co-efficient of correlation
- Statistical packages of its application

UNIT-8**Hours: 04****Communication and Utilization of Research:**

- Communication of research findings: Verbal report, writing research report, Writing scientific article/paper: Critical review of published research
- Utilization of research findings.

Teaching and Learning Activities:

- Lecture discussion
- Narrate steps of research process followed from examples of published studies.
- Exercise on writing statement of problem and objectives
- Exercise on reviewing one research report/article for a selected research problem
- Prepare annotated bibliography
- Explain types of research approaches used from examples of published and unpublished research studies with rationale
- Reading assignment on examples of data collection tools

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