

Programme/Class: Certificate	Year: First	Semester: First
Subject: ZOOLOGY (Skill course)		
Course Code:	Course Title: Basic Clinical Techniques- Part-I	
Course outcomes: The student at the completion of the course will be able to:		
<ul style="list-style-type: none"> • adjust to protocols and guidelines relevant to the assistant role in clinical practice • recognize the boundary of the clinical assistant responsibility • exhibit managing potential to risks to the quality and patient safety. • be aware of relevant legislation, standards, policies, and procedures followed in the clinics • engage and supervise other providers in order to maintain quality continued care. • PRACTICAL AND INTERNSHIP ON ALL UNITS WITH SKILL PARTNERS 		
Credits: 3	Core: Skill	
Max. Marks: 25+75	Min. Passing Marks: as per rules	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 1-0-2		
Unit	Topics	Total No. of Lectures (15T+60P)
I	Health and Healthcare <ul style="list-style-type: none"> • Basic structure and functioning of the human body and healthcare in India; Biomedical terminology and abbreviation • IEC document and safety, Record keeping and report 	5T+6P
II	Laboratory Safety System <ul style="list-style-type: none"> • Good laboratory practices, • Autoclave- Working principle, parts. • Deep freezers, Hot Air Oven • Biomedical waste disposal- Theory and Practice, waste segregation 	2T+12P
III	Collection of blood for various tests <ul style="list-style-type: none"> • Collection of blood and other samples for analysis • Preparation of blood smears, Antigen testing, • PH meter- working and applications, Clinical relevance of blood PH • Labelling, Storage and Sample transportation 	2T+12P
IV	Introduction to 24X7 Patient care <ul style="list-style-type: none"> • Ambulatory blood pressure monitoring; Clinical Laboratory Improvement amendments • Point-of-Care testing (Glucometer), oximeter, continuous glucose monitoring; maintaining data for sleep • Diabetes care understanding of hypoglycaemia, its consequences 	3T+24P
V	Care of Elderly <ul style="list-style-type: none"> • Anatomy of ear and hearing function. • Types of audiometers - Pure tone audiometer and speech audiometer, parts and operation of hearing aids. • Walking support, wheelchair, • National Programme for Health Care of the Elderly (NPHCE) 	3T+6P
Suggested Readings:		
<ol style="list-style-type: none"> 1. Text book of medical laboratory technology, Praful Godkar; Bhalani Bhalani Publishing House 2. Manual of FIRST AID: Management of General injuries, Sports injuries and Common Ailments LC Gupta, Abhitabh Gupta Jaypee 		

3. Health Education and Community Pharmacy for First Year Diploma in Pharmacy
3EdV.N. Raje, CBS
4. Textbook of Community Health Nursing I, S.D. Manivannan CBS Nursing
- Course Books published in Hindi may be prescribed by the Universities and Colleges**

Course prerequisites: To study this course, a student must have had the subject biology in class 12th

Suggested Continuous Evaluation Methods:

Total Marks: 25

House Examination/Test: 10 Marks

Written Assignment/Presentation/Project / Term Papers/Seminar: 10 Marks

Class performance/Participation: 5 Marks

Further Suggestions: None

Programme/Class: Certificate	Year: First	Semester: First
Subject: ZOOLOGY (Skill course)		
Course Code:	Course Title: Basic Clinical Techniques- Part-II	
Course outcomes: The student at the completion of the course will be able to:		
<ul style="list-style-type: none"> • adjust to protocols and guidelines relevant to the assistant role in clinical practice • recognize the boundary of the clinical assistant responsibility • exhibit managing potential to risks to the quality and patient safety. • be aware of relevant legislation, standards, policies, and procedures followed in the clinics • engage and supervise other providers in order to maintain quality continued care. • PRACTICAL AND INTERNSHIP ON ALL UNITS WITH SKILL PARTNERS 		
Credits: 3	Core: Skill	
Max. Marks: 25+75	Min. Passing Marks: as per rules	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P:1-0-2		
Unit	Topics	Total No. of Lectures (15T+60P)
I	Laboratory Instruments- I <ul style="list-style-type: none"> • Microscopy - introduction , different types of microscopes, , parts, magnification, adjustments, compound microscope • photoelectric colorimeter - working principle, block diagram, applications • Centrifuge- parts, working, maintenance of tabletop centrifuge 	3T+18P
II	Laboratory Instruments- II <ul style="list-style-type: none"> • Introduction to dialysis - Importance of dialysis, Types of dialysis - peritoneal dialysis and hemo dialysis, Hemodialysis • Idea about liquid oxygen supply, defibrillators. • First aid to pulmonary exacerbation 	3T+12P
III	Laboratory Instruments- III <ul style="list-style-type: none"> • Fundamentals of Eletrolyte analyser, Blood gas analyser, incubator and waterbath , • Familiarise Automatic Hemoanalysers and blood cell counters, • name and uses of Blood bank equipments-Blood bank refrigerators, cryo centrifuge,cry bath, Apheresis machines, donor couch, blood bag sealer, platelet agitator, blood shaker. 	3T+20P
IV	Patient-Home and Hospital care <ul style="list-style-type: none"> • sleep and sleep Hygeine • Handling of pre-and post-disease anxiety • Pre-and post- operative therapies • Rehabilitation 	6T+10P
Suggested Readings:		
<ol style="list-style-type: none"> 1. Text book of medical laboratory technology, Praful Godkar; Bhalani Bhalani Publishing House 2. Manual of FIRST AID: Management of General injuries, Sports injuries and Common Ailments LC Gupta, Abhitabh Gupta Jaypee 3. Health Education and Community Pharmacy for First Year Diploma in Pharmacy 3Ed V.N. Raje, CBS 4. Textbook of Community Health Nursing I, S.D. Manivannan CBS Nursing 		
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Further Suggestions: None