STUDY & EVALUATION SCHEME

OF

VALUE ADDED COURSE

P.B.B.Sc. Nursing (I YEAR)

COURSE TITLE: ELECTROCARDIOGRAPHY: DIAGNOSTIC AND MONITORING PERSPECTIVES IN HEALTHCARE

TEERTHANKER MAHAVEER UNIVERSITY

Delhi Road, NH 9, Moradabad, Uttar Pradesh 244102

Website: www.tmu.ac.in

TEERTHANKER MAHAVEER UNIVERSITY
COLLEGE OF NURSING
(Established under Govt. of U. P. Act No. 30, 2008)
NH-24, Delhi Road, Moradabad (U.P)

Study & Evaluation Scheme	
SUMMARY	
Institute Name	**TEERTHANKER MAHAVEER COLLEGE OF NURSING, TMU, MORADABAD.**
Name of the course	Electrocardiography: Diagnostic and Monitoring Perspectives in Healthcare
Placement	P.B.B.Sc Nursing I Year
Duration	30 hours
Medium of instruction	English
Minimum Required Attendance	Theory 75%

Course Developed by: Prof. Jitendra Singh HOD MSN Department

Course Outcomes:

At the end of the course, the students will be able to:

CO-1 Remembering the basic anatomy of the heart and the principles of cardiac electrophysiology relevant to ECG interpretation.

CO-2 Understanding the standard components of a normal ECG tracing and their physiological significance.

CO-3 Applying the ECG interpretation skills to recognize common abnormalities such as arrhythmias, ischemic changes, and conduction defects.

CO-4 Analyzing the ECG patterns in clinical case scenarios to distinguish between normal and abnormal cardiac rhythms.

CO-5 Evaluating the accuracy and clinical relevance of ECG findings to assist in clinical decision-making.

Course code: VAC-07	**ELECTROCARDIOGRAPHY: DIAGNOSTIC AND MONITORING PERSPECTIVES IN HEALTHCARE**	**L- 20 P-10**
	Course Content:	
Unit-I	**Introduction to ECG** - Overview of cardiac conduction system - Electrophysiology of heart - Components of ECG (P wave, QRS complex, T wave, etc.) - ECG machine: parts, leads, paper speed, and calibration	2 Hours
Unit-II	**Normal ECG Interpretation** - Standard 12-lead ECG - Steps of ECG interpretation - Normal values and waveforms - Sinus rhythm and its variations	8 Hours
Unit-III	**Abnormal ECG Findings** - Bradycardia, tachycardia, atrial fibrillation - Ventricular arrhythmias - Myocardial infarction changes - ST elevation/depression, T wave inversion - Bundle branch blocks, AV blocks	8 Hours
Unit-IV	**Clinical Application of ECG** - Interpretation in emergency care - Nursing responsibilities during ECG recording - Documentation and interpretation reports	2 Hours
Unit-V	**Hands-on Skill Practice** - Lead placement and machine use - Simulated ECG tracing interpretation - Case-based scenarios.	10 Hours
References	**Reference Books** 1. **Chaurasia, B.D.** ***Human Anatomy.*** 2. **Dubin, D.** ***Rapid Interpretation of ECGs*****, Latest Edition.** 3. **Karthikeyan, G.** ***Textbook of Electrocardiography.*** 4. **Brunner & Suddarth's** ***Textbook of Medical-Surgical Nursing.*** 5. **Marieb, E.N.** ***Essentials of Human Anatomy and Physiology.*** **Journal References**	

	1. *Indian Heart Journal* 2. *Journal of Cardiovascular Nursing* 3. *Indian Journal of Critical Care Medicine* **Net References** 1. **https://www.ecglibrary.com** 2. **https://www.ekginterpretation.com** 3. **https://www.clevelandclinic.org/health/diseases/16846-electrocardiogram** 4. **https://www.heart.org**	