

DEPARTMENT OF ROGNIDAN EVUM VIKRUTI VIGYAN

VALUE ADDED COURSE (2021-2022)

Course Name: *Certificate Course On Mastering ECG*

Organizing Department: Department of Rognidan Evum Vikruti Vigyan

Course Code: RNECG1

Course coordinators: Vd. Mujjafar Mulla and Vd. Mukesh Borase

Duration: 3 months (36 hours)

Date: 5th June 2021 to 5th August 2021.

Course Overview

The 36-hour Electrocardiography (ECG) course aims to provide participants with in-depth knowledge and practical skills in interpreting and understanding ECGs. This course covers the fundamentals, advanced concepts, case studies, and hands-on practice, equipping learners with the competence to accurately analyse ECGs in clinical settings.

Course Objectives

- Understand the basic principles of ECG.
- Identify normal and abnormal ECG patterns.
- Analyse various cardiac conditions using ECG.
- Develop proficiency in ECG interpretation.
- Apply ECG knowledge in clinical practice.

Course Modules:

Sr. No.	MODULE	DURATION
1.	Introduction to Electrocardiography, Basics of ECG	2 HOURS
2.	Cardiac electrophysiology	2 HOURS
3.	Understanding the ECG machine, ECG Waves and Intervals	2 HOURS
4.	P wave, QRS complex, T wave	2 HOURS
5.	PR interval, QT interval	2 HOURS
6.	Significance of each wave and interval	2 HOURS
7.	Normal ECG Interpretation	2 HOURS
8.	Steps in ECG interpretation	2 HOURS

9.	Normal ECG characteristics, Clinical relevance of normal findings	2 HOURS
10.	Abnormal ECG Patterns, Recognizing arrhythmias	2 HOURS
11.	Ischemia and infarction patterns	2 HOURS
12.	Hypertrophy and bundle branch blocks	2 HOURS
13.	Advanced ECG Interpretation- Complex arrhythmias	2 HOURS
14.	Electrolyte disturbances	2 HOURS
15.	Ambulatory ECG monitoring	2 HOURS
16.	Indications for Holter monitoring, Exercise stress testing protocols	2 HOURS
17.	Pregnancy and ECG, ECG in congenital heart diseases	2 HOURS
18.	Practical ECG Interpretation, Case-based discussions	2 HOURS
	TOTAL	36 HOURS

Learning Outcomes

By the end of this course, participants will be able to:

- Understand and explain the principles of ECG.
- Accurately interpret normal and abnormal ECG patterns.
- Diagnose various cardiac conditions using ECG.
- Apply ECG knowledge in different clinical scenarios.
- Enhance clinical decision-making through proficient ECG interpretation.

Course Delivery

Duration: 36 hours

Format: Online

Materials: Course readings, case studies, practical sessions.

Assessment: Quizzes, practical exams and a final project

Eligibility criteria: 2nd year students of BAMS.



Principal
Ashwini Ayurvedic Medical
College and Research Institute