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**RM1,590 (inclusive of 6% GST)**



IJN COLLEGE



INSTITUT JANTUNG NEGARA  
National Heart Institute

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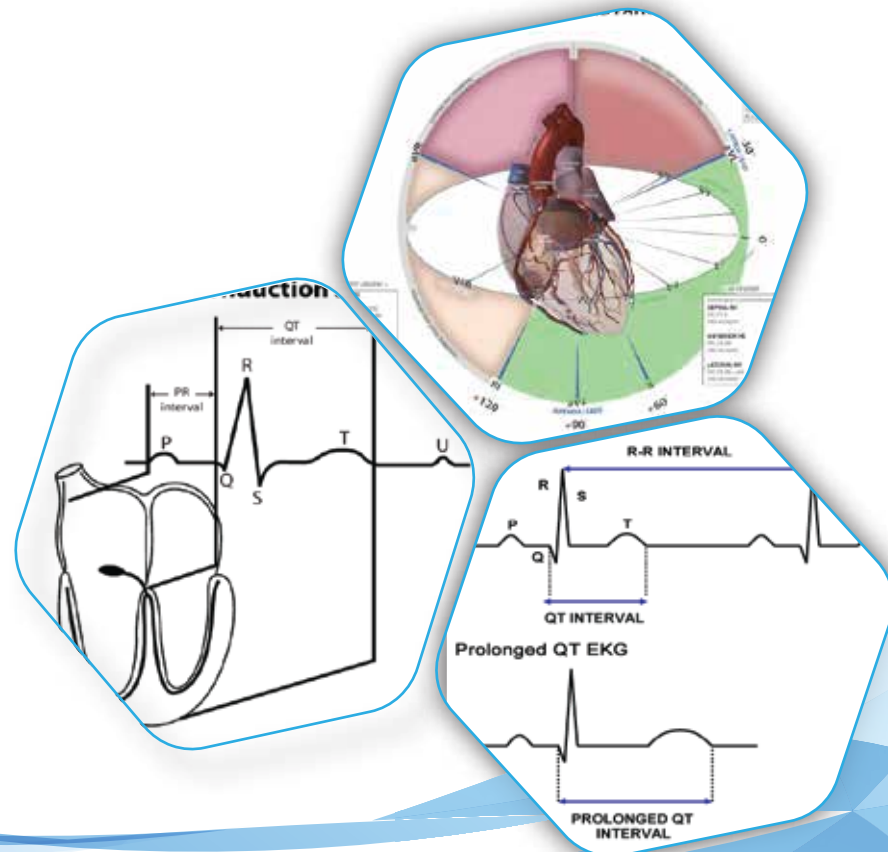
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# ECG COURSE FOR BEGINNERS

**IJN COLLEGE**  
**21<sup>st</sup> February 2018**

## INTRODUCTION

Electrocardiogram (ECG) is no longer isolated to critical care areas. In today's hospitals, ECG monitoring is utilized throughout the healthcare facility. It is a vital component of care provided by healthcare professionals and provides us with an enormous amount of clinical information.

This short course reviews the main features of ECG monitoring, a method for analysing and assessment of the rhythm, calculating p-waves, forms, measurement of interval and evaluation of other relevant waves

## OBJECTIVES

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

- Identify components of the ECG wave form
- Employ a systematic process to evaluate and analyse ECG rhythm strips
- Understand the common causes and patient management strategies for ECG dysrhythmias

## BENEFICIAL TO

Doctors, Nurses and Allied Healthcare Professionals.

## AWARD

- Certificate of Completion.

## DURATION

Three months (2 hours a week - every Wednesday).

## VENUE

Computer Lab, IJN College.

## THE FACULTY

Dr Kumara Guruparan Ganesan  
Dr Aslannif Roslan  
Tay Giat Sing  
Thavarasa Navaratnam

## ENQUIRIES

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## OUTLINE TOPICS

### 1. PRINCIPLES OF ELECTROCARDIOGRAPHY

- Pre Assessment
- History and what the ECG is about
- Basic ECG Equipment
- ECG Waves & Intervals - normal/abnormal
- Types of leads - unipolar, bipolar, precordial leads, limb leads
- Vectors and axis
- Strategy to reduce artifacts
- Equipment maintenance

### 2. PRACTICAL ASPECT OF ECG RECORDING

- Identify 3/5 leads monitoring
- Patient preparation
- Appropriate leads & equipment attachment
- Electrical safety
- Distinguish electrical interference & artifacts

### 3. CONDUCTION AND AV HEART BLOCKS

- Right and Left Bundle Branch Blocks
- First degree, Second Degree Type I & II, Third Degree heart block

### 4. ARRHYTHMIA INTERPRETATION & MANAGEMENT

- Brady / Tachyarrhythmia
- SVT, AF, VT/VF, Sinus Arrhythmias, Atrial Flutter
- Atrial & Ventricular Escape/Extrasystole Rhythms
- WPW
- Arrhythmia management
- Sinus Arrest

### 5. MYOCARDIAL INFARCTIONS/ISCHEMIA

- Acute ST-segment myocardial infarction (anterior, lateral, inferior, septal) and reciprocal
- ST depressions
- T-wave inversions (ischemia)
- Primary ST segment infarction (subendocardial ischemia or infarction)
- Left & right atrial/ventricular hypertrophy

### 6. 12-LEAD INTERPRETATION OF ECG GRAPH & ABNORMALITIES

### 7. PACING RHYTHMS & INTERVENTIONS

- Post Assessment