VINAYAKA MISSION'S
KIRUPANANDA VARIYAR
MEDICAL COLLEGE & HOSPITAL

(A constituent College of VMRF-DU)

Salem - 636 308.

DEPARTMENT OF PHYSIOLOGY AND MEDICAL EDUCATIONAL UNIT

We Cordially invite you to attend the

C.M.E. PROGRAMME

on

"Acquiring Biosignals in the present era of Digital Technology"

Prof. Dr. K. Prakasam, M.S.Ortho., D-Ortho., Dsc (Hons).,
Dean
VMKV Medical College & Hospital, Salem.
Will preside over the function

Guest Speaker

Dr. K.N. Maruthy, M.D.,
Professor & Head, Department of Physiology,
Narayana Medical College, Nellore, Andra Pradesh.

Shall deliver the lecture

Chair Persons

Prof. Dr. Milind V. Bhutkar, M.D.,
Deputy Dean (Admin)
Professor & HOD,
Dept. of Physiology,VMKVMCH, Salem.

Dr. V. Suganthi, M.D.,
Associate Professor,
Dept. of Physiology,
VMKVMCH, Salem.

Venue : Annapoorana Lecture Hall - I
Date : 02.02.2019 Saturday **Time** : 11.00 am to 12.00 noon

Programme Schedule

Thamizh Thai Vaazhthu

Welcome Address : **Prof. Dr. Milind V. Bhutkar, M.D.,**
Deputy Dean (Admin)
Professor & HOD
Department of Physiology
VMKVMC&H, Salem.

CME Inauguration by Dean

Introduction of Speaker : **Dr. S. Waheeda, M.D.,**
Assistant Professor,
Department of Physiology,
VMKVMC&H, Salem.

Scientific Session : **Dr. K.N. Maruthy, M.D.,**
Professor & Head, Department of Physiology,
Narayana Medical College,
Nellore, Andhra Pradesh.

Vote of Thanks : **Mr. Syed Liyakath Ali, M.Sc., (Med. Physiology)**
Tutor,
Department of Physiology,
VMKVMC&H, Salem.

National Anthem

All are Welcome

Date: 04/02/2019

VINAYAKA MISSION'S KIRUPANANDA VARIYAR MEDICAL COLLEGE & HOSPITALS, SALEM

(A constituent college of VMRF-DU)

DEPARTMENT OF PHYSIOLOGY

CME ON "ACQUIRING BIOSIGNALS IN THE PRESENT ERA OF DIGITAL TECHNOLOGY"

- CME On "Acquiring Biosignals in the Present Era of Digital Technology" was conducted on 02/02/2019 (Saturday) between 11.00 am and 12.00 noon by the department of Physiology in Annapoorna Lecture Hall-1 of Vinayaka Mission's Kirupananda Variyar Medical College & Hospitals.
- CME started at 11.00 am by the PRAYER SONG.
- **Professor Dr. Milind V. Bhutkar MD.,** (Deputy Dean & HOD Department of Physiology, VMKVMCH, Salem) delivered the welcome address.
- **Dr. S. Waheeda MD**., Assistant Professor, Department of Physiology introduced the Guest Speaker
- Scientific session started with the guest lecture on "acquiring biosignals in the present era of digital technology" by Dr. K. N. Maruthy, M.D. Professor & HOD, Department of Physiology, Narayana Medical College, Nellore, A.P.
- The session was chaired by Dr. Milind Bhutkar MD. (Deputy dean & Professor & HOD Physiology, VMKVMCH,Salem), Dr. Senthil Kumar MD. (Professor & HOD Physiology Mohankumar Mangalam Govt. Medical college, Salem), Dr. Uma Maheswari MD. (Professor &HOD Physiology, AMC, Salem) & Dr. V. Suganthi MD. (Associate Professor of Physiology, VMKVMCH, Salem).
- Lecture was very interesting & gave idea about the recent developments in acquiring various biosignals & their use in clinical practice as well as research. It was helpful to all other departments also.
- Faculty of VMKVMC, AMC & Mohankumar Mangalam Govt. Medical college, Salem, Postgraduate students of various departments & Undergraduate students attended the CME programme.
- **ABSTRACT OF THE TALK**

  ACQUIRING BIO-SIGNALS IN THE PRESENT ERA OF DIGITAL TECHNOLOGY

  A signal which can be measured or monitored in a living system is called the bio-signal. Most of the time this signal will be electrical in nature, and can be non-electrical signal

like chemical or electro-chemical or electro-magnetic. Understanding of these electrical signals like ECG, EEG and EMG are of greater importance in identification of healthy status of the individual. Recording and capturing of these signals was always a challenge in the past due to artifacts and noise.

Now in the modern era of digitization its become more easy and faster to capture, store and monitor these kind of signals using various kinds of sensors. Due to advancement in wireless technology we are able to get even most complicated signals at any given point of time from any where in the world.

Implimentation of bio-feedback system helps to improve the quality of life and also to achieve optimal performace in critical tasks. Deeper understanding of the bio-signals has helped us to design wearable bio-sensors. Newer type of bio-materials are being identified which can be 3D printed and used in replacement of bodily parts. The advancement in bi-technology has reached to the extent of making human copies of humanoid robots.

- Vote of thanks was delivered by **Dr. Sheela Joice** M.Sc. Ph.D., Assistant professor of Physiology, VMKVMC, Salem.


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DEPARTMENT OF PHYSIOLOGY
CME On
Present Era
of Digital Tec logy
Guest Speake
Dr. K.N. Mar
Narayana
Medical College
Date: 0
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DEPARTMENT OF PH
MEDICAL EDUCA
CME
ON
Digital Tech
Dr. K.N. Nara
DATE : 02.02.2019
TIME : 11.00 AM


ACQUIRING BIO-SIGNALS
IN THE PRESENT ERA OF
TAL TECHNOLOGY
Dr.K.M.MARUTHY
PROFESSOR & HOD
DEPT.OF PHYSIOLOGY,
NARAYANA MEDICAL COLLEGE
NELLORE, ANDHRA PRADESH
DEPARTMENT OF PHYSIOLOGY AND
MEDICAL EDUCATION UNIT
CME
ON


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