

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also under take the responsibility to inform the coordinator in case I am unable to attend the course.

Place :

Date :

Signature of the applicant

SPONSORSHIP CERTIFICATE

Mr./Ms./Dr. _____
_____ is an employee of our Institute/Organization and is here by sponsored by us. He/She will be permitted to attend the course, if selected.

Signature of the sponsoring authority with seal

Place:

Date:

Application form completed in all aspects is sent to:

Ms. K. Poomani
Assistant Professor
Department of Mechatronics,
Bannari Amman Institute of Technology,
Sathyamangalam – 638401, Erode.
poomanik@bitsathy.ac.in
9597298494

ABOUT THE INSTITUTION

The Bannari Amman Institute of Technology (BIT) is an impressive campus situated in a serene surrounding at the foothills of the Eastern Ghats encompassing a sprawling area of 180 acres. It is run by Bannari Amman Group, a leading corporate house under the dynamic leadership of a great visionary Dr.S.V.Balasubramiam, in south India to establish a Center of Excellence in Engineering and Technology. The Institute offers 15 UG and 15 PG programs in Engineering & Technology, Applied Sciences, Management and Ph.D & M.S. (By Research) in all the eligible discipline of Engineering and Technology. The institute has been approved by All India Council for Technical Education (AICTE), New Delhi, accredited by NBA, NAAC with 'A' Grade and it is an autonomous institution affiliated to Anna University, Chennai. BIT won the Silver Medal for the Best overall Industry-linked Engineering College, jointly by AICTE and the Confederation of Indian Industry (CII) for the year 2012. The institute obtained the Best Engineering College Award from Indian Society for Technical Education in the year 2009

ABOUT THE DEPARTMENT

The Department of Mechatronics established in the year 2012 with the intake of 60 and enhanced to 120 in the year 2014. The PG program on Industrial Automation & Robotics is started in the year 2016. The department has experienced faculty members with different specialization in Mechatronics and Mechanical engineering.

ABOUT THE LOCATION

Sathyamangalam is well connected by road from Erode/Coimbatore. The nearest railway stations are Erode (65 km) and Coimbatore (70 km). The institute is located 5 km away from Sathyamangalam on Athani road.

DBT SPONSORED TWO DAYS NATIONAL SEMINAR

On

“INNOVATIVE APPROACHES FOR DIAGNOSIS AND CONTROL OF CARDIAC ARREST”

22 – 23 September 2017

Convenor

Dr. K. P. ARULSHRI

Co-ordinator

Ms. K. POOMANI



Department of Mechatronics
Bannari Amman Institute of Technology

(Autonomous)

Sathyamangalam – 638401, Erode.

Tel: 04295 – 226521

www.bitsathy.ac.in

INTRODUCTION

Biomedical engineering deals with the application of various concepts of engineering in the field of medicine and biology, mainly for health care purposes thereby improving patient's quality of life. Out of the various techniques, the primary focus is to develop a reliable and optimized technique for electro stimulation of heart. In an effort to make such improvements this seminar describes the design of a control system for regulating the Heart Rate (HR) for pacemaker in an efficient way.

The development of mathematical, statistical and signal processing methods for the analysis of complex biomedical systems, clinical diagnosis and patient monitoring is still at its initial stage in an Indian context. This seminar on diagnosis and control of cardiac arrest supports mathematical model development and control of heart rate for cardiac pacemaker with necessary instrumentation and computational of clinical or biomedical applications.

The goal of this seminar is to impart participants with an in-depth understanding of fundamentals and advanced knowledge in the areas of diagnosis and control of cardiac arrest and to enable them to progress rapidly in their research.

COURSE CONTENTS

- Introduction to the challenge-the burden of cardiovascular disease
- Investigation of sudden Cardiac Arrest survivor
- Automated diagnosis of coronary artery disease based on data mining and fuzzy modeling
- Mathematical model of cardiovascular system by transfer function method
- Design of intelligent controller for cardiac pacemaker
- Recent research issues and challenges

RESOURCE PERSON

Sessions will be handled by experts from various hospitals and faculty members of reputed institutions.

ELIGIBILITY

Faculty members from AICTE approved Engineering colleges and polytechnics with relevant background. Candidates from industries and R&D organizations may also be considered on a self-supporting basis.

ACCOMMODATION

Accommodation is provided to the participants based on availability under payment basis.

REGISTRATION DETAILS

No course fee is charged for participants from AICTE approved institutions. However, Registration form can be sent in the format enclosed along with the Refundable deposit of Rs.300/- through Demand Draft / Cheque in favor of **The Principal, Bannari Amman Institute of Technology** payable at **Sathyamangalam**.

HOW TO APPLY

The applicants should apply through **google form** and also send their application form along with DD / Cheque to reach us on or before 12.09.2017. If selected, they should confirm their participation in time.

REGISTRATION LINK

<https://goo.gl/forms/xDnBqonNarZdOn2F3>

SCHEDULED DATES

Last date for receipt of Application
with Demand Draft / Cheque : 12.09.2017
Confirmation to Participants : 15.09.2017

BANNARI AMMAN INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
SATHYAMANGALAM, ERODE 638401

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On
**“INNOVATIVE APPROACHES FOR
DIAGNOSIS AND CONTROL OF
CARDIAC ARREST”**

APPLICATION FORM

Name : _____

Age : _____

Designation : _____

Organisation : _____

Address for
Communication : _____
(With telephone
no. & E-mail ID)

Accommodation
Required : Yes/No

Qualification : _____

Experience : _____

Teaching : _____ Years

Others (Specify) : _____ Years