

SRI RAMAKRISHNA ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to the Anna university of Technology, Coimbatore)

Vattamalaipalayam, N.G.G.O. Colony P.O., Coimbatore-22



DEPARTMENT OF BIOMEDICAL ENGINEERING

Placement Brochure 2007 - 2011

FROM THE TRUSTEE:



Thiru. C. Soundara Raj

In the swiftly evolving cognizance-based society of the modern world, SREC, Coimbatore aids in imparting sound technical education and other creatural skills.

The BME Department, started in 2006 encompasses a dedicated, well acquainted faculty and well equipped infrastructural lab facilities. The department targets at grooming the students with punctilious academic schedule, which comprises both theory and practice to make them competent to fulfil the needs of the industry. Our BME students are provided with a wide range of opportunities to acquire analytical, professional and practical skills to devise and engender new developments in the field of BME. The students here are encouraged to improve their intrapersonal skills by being motivated to vivaciously participate in sports, cultural and other philanthropic activities.

We appeal to the industry to test the dexterity of our students and provide them challenging opportunities. We receptively welcome your apprehension regarding the initiatives needed to keep our students at the brimming edge of technology.

FROM THE JOINT MANAGING TRUSTEE:

The students of SREC possess a plethora of cognizance and would prove their dexterities when exposed to an ambience which validates their ability.

At SREC we provide our students with profound knowledge of the subjects and also other prolific skills there by encouraging our students to become victorious conquering the challenges which confront them. Our BME students are exposed to a sundry of events which helps them in gaining diversified knowledge in the field of Bio Medical Engineering. I can assure that our BME students when recruited will work proficiently to acquire eminence for your esteemed organization and will produce a distinct difference.



Thiru .R. VijayaKumhar

FROM THE DIRECTOR:



Dr. A. Ebenezer Jeyakumar

I am glad to note that the second batch of B.E. (Biomedical Engineering) students of this Institution propose to release a Placement e-Brochure to impress the prospective employers. Their maiden venture of Placement e-Brochure is quite impressive. The talent of the students in different facets of compilation is much appreciable.

I am confident that this e-brochure, when it reaches the hands of the leading entrepreneurs, would certainly convince them to visit this campus for placement.

My prayerful greetings and best wishes to their efforts.

FROM THE PRINCIPAL:

It gives me immense pleasure in welcoming you to the department of Biomedical Engineering of Sri Ramakrishna Engineering College. Undergraduate course is offered by the department of Biomedical Engineering covering diversified coexisting and rapidly flourishing fields of extensive range of interests. Our students are exposed to the upcoming trends in this field through workshops and guest lectures by eminent and renowned persons in this field. The curriculum wraps a wide spectrum of BME subjects which are recurrently revised to satisfy the fast growing needs of the industry. The profundity of courses is consummated by the academia-industry interface imparting unequalled knowledge to our students. I am grateful to invite you to participate in the placement programme to recruit students in your renowned organization.



Dr.R.Radhakrishnan

FROM THE HEAD OF THE DEPARTMENT:

Biomedical engineering is an upcoming field and involves the application of engineering principles and techniques to the medical field and it seeks to close the gap between engineering and medicine.



Prof. B. Balasubramanian

It combines the design and problem solving skills of engineering with medical and biological sciences to improve healthcare diagnosis and treatment by developing new medical devices and techniques to assist people with disabilities and other health related problems thereby improving the quality of lives of people.

A biomedical engineer synergizes and works as a team with various healthcare professionals like doctors, therapists and technicians. They contribute to the society by developing biocompatible prostheses, various diagnostic and therapeutic medical devices and create corresponding software to help in saving the lives of mankind.

Hence we request you to kindly consider our solicitation and visit our institution to recruit our students. I assure you that they would endeavor their best to be assiduous and yield their best to your organization.

the institution

Sri Ramakrishna Engineering College is an Autonomous Institution, affiliated to Anna University of Technology, Coimbatore and approved by All India Council for Technical Education (AICTE), New Delhi and Government of Tamil Nadu. The College was established in 1994 at Vattamalaipalayam by S.N.R. Sons Charitable Trust, which runs 14 other educational and medical institutions with four branches of engineering and 180 students. By the fervent interest of the Trust, which has whole-heartedly committed itself to the great cause of service to the mankind and to the education sector, the College has grown into an eminent institution in Tamil Nadu.

With a vision “To develop into a leading world class Technological University, consisting of Schools of Excellence in various disciplines; With a co-existent Centre for Engineering Solutions Development for world-wide clientele” and a mission to “To provide all necessary inputs to the students for them to grow into knowledge engineers and scientists attaining

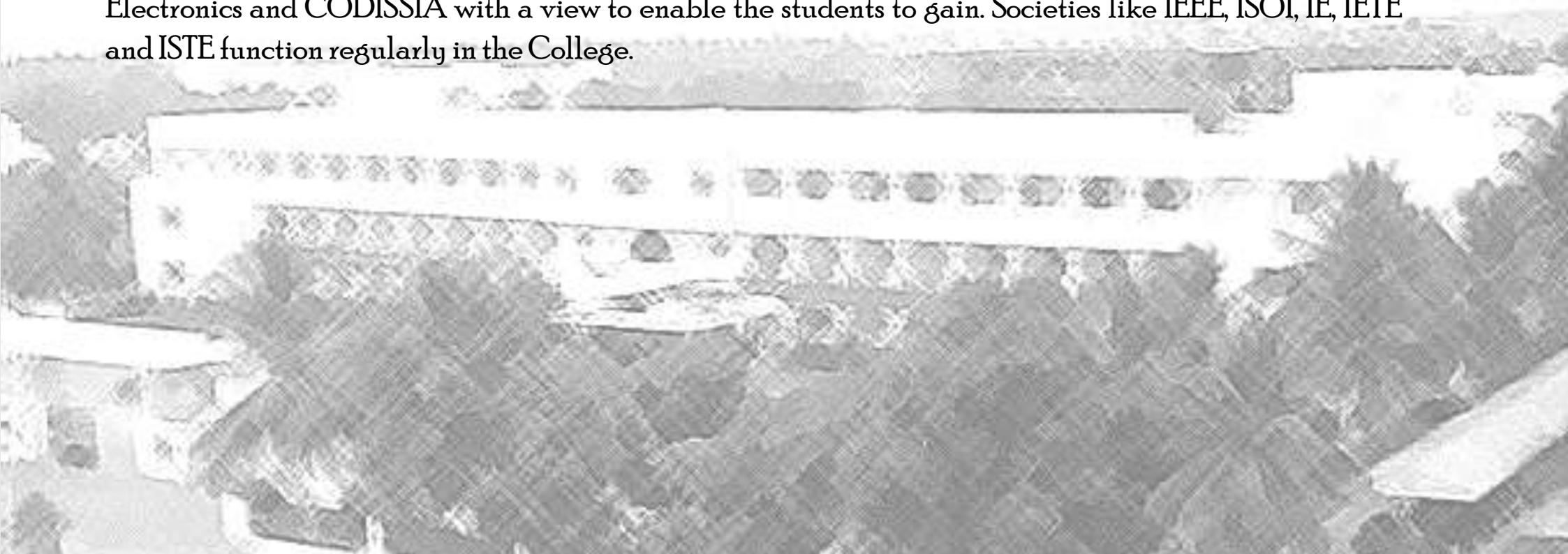
- Excellence in domain knowledge (practice and theory).
- Excellence in co-curricular and extracurricular talents.
- Excellence in character and personality”,



the College seeks to

- To achieve academic excellence with the base of character building.
- To impart technical and other essential education of higher standard.
- To create excellent facilities for technical education.
- To take technology to the rural masses.

The college is into MoUs with the South Dakota School of Mines & Technology, Rapid City U.S.A., Rutgers and the State University, New Jersey, U.S.A. for Student and Faculty exchange programme. The college also has technical collaboration with Wipro, Keane, EMC², Suguna Industries, Infosys, Salzer Electronics and CODISSIA with a view to enable the students to gain. Societies like IEEE, ISOI, IE, IETE and ISTE function regularly in the College.



the department

Department of Biomedical Engineering was established in the academic year 2006- 2007.

Vision:

The Biomedical Engineering program at Sri Ramakrishna Engineering College is committed

- To being the premier catalyst for excellence in Biomedical engineering education, innovation, and entrepreneurship.
- To produce graduates who are sensitive to the ethical issues pertinent to the biomedical engineering profession.

Mission:

- Biomedical Engineering department promotes health services which incorporates the latest advances in scientific knowledge in a manner that supports education and research for the benefit of community.
- To prepare graduates who are immediately productive and are able to adapt a rapidly changing environment and to apply knowledge at the interface of life sciences and engineering for the benefit of mankind.
- To inspire and work with students to develop and apply engineering methods to confront health science challenges, thus serving the nation and the world in times of crucial science breakthrough

Under the guidance of an adroit team of professors and lecturers, the students commit themselves to various educational and research activities.

Staff	Qualification	Designation	Area of Interest
Mr. B. Balasubramanian	M.E. (Ph. D.)	Associate Professor	Biomedical Image Processing
Mr. J. Samson Isaac	M. Tech, (Ph.D)	Senior Lecturer	Control Systems, Virtual Instrumentation
Mr. J. Prasad	M. E	Lecturer	Power Electronics, VLSI
Mr V.S. Mahendran	M.Sc., M.Tech, (Ph. D)	Lecturer	Proteomics, Nanomaterials
Mrs. S. Vidhya Gowri	M.E.	Lecturer	Biomedical Instrumentation
Ms. S. Yamini Priya	B.E., PGDHM, (M.E)	Lecturer	Digital Image Processing,
Ms. K.S. Vijaya	M.Sc., M.Phil	Lecturer	Plant Biotechnology
Ms. L. Dhiviyalakshmi	B.E., (M. Tech.)	Lecturer	Biomechanics, Nanotechnology
Ms. R. Aarthi	B.E., (M. Tech)	Lecturer	Embedded System Design
Ms. K. S. Shobana	B.E., (M. Tech)	Lecturer	Bio-MEMS, Nanotechnology
Ms. T. Sivaranjini	B.E., (M. Tech)	Lecturer	VLSI
Ms. R. Rajeshwari	B.E., (M.E)	Lecturer	Biomedical Instrumentation
Ms. Sindhu Gaston	B.E	Lecturer	Diagnostic and Therapeutic Equipments

the erudition

Major Biomedical subjects

- Human Anatomy and Physiology
- Biomedical Instrumentation
- Biomechanics
- Diagnostic & Therapeutic Equipments
- Biocontrol Systems
- Medical Physics
- Biochemistry
- Pathology and Microbiology
- Medical Informatics
- Hospital System Management
- Radiological Equipments and Nuclear medicine
- Principles of Telemedicine
- Rehabilitation Engineering
- Biomaterials and Artificial Organs



Electronics & Computers

- Electronic Device
- Electric Circuits
- Circuit Theory
- Digital Electronics
- Linear Integrated Circuits
- Microprocessors & Microcontrollers
- Fundamentals of Programming
- Object Oriented Programming
- Visual Programming



Other Allied Subjects

- Transforms and random Processes
- Signals and Systems
- Digital Signal processing
- Digital Image Processing
- Sensors and Measuring Techniques
- Fibre Optics and Laser Instruments
- Principles of Communication
- Neural Networks and Fuzzy Logic
- Embedded System Design
- Professional Ethics



The practice laboratories improve the pedagogic interaction and broaden the discernment of the latest medical technologies. All laboratories are provided with facilities for gaining extensive knowledge on concepts delivered in classrooms. Training in the following laboratories is provided in fulfillment of the curriculum.



Biomedical Instrumentation



Virtual Instrumentation



Electronic Circuits

MAJOR BIOMEDICAL LABS

Hospital training
Virtual Bio Instrumentation Lab
Diagnostic and Therapeutic Lab
Biochemistry Lab
Biomedical Instrumentation Lab
Pathology and Microbiology Lab

ELECTRONICS LABS:

Microprocessor and Microcontroller Lab
Digital Signal Processing Lab
Electrical and Electronics Circuits Lab
Digital Electronics lab
Integrated Circuits lab

PROGRAMMING LABS

Visual Programming Laboratory
C Programming Laboratory
OOPS Laboratory



Diagnostic and Therapeutic Equipments



Biochemistry



Visual Programming

The Department Library:

The department library is the nerve centre of scholarly activities and intensive learning. It maintains state-of-the-art facilities with several books for the students to improve their knowledge in various disciplines and provides equitable access to information. The department library has total of 184 books acquainting the students with the nuances of Biomedical Engineering. The department has subscriptions to 9 journals which include 4 bio medical, 1 IEEE specimen and 3 electronics.

Clinical trial room:

This is a special facility in our department enabling students to carry out research oriented programs like acquisition & analysis of EGG, fetal ECG, monitoring, heart rate detection and some future researches into considerations.



The Department Library



Clinical Trial Room



Hot Room



Product Development Centre

Product Development Centre:

This unique facility available at the department provides for the development of innovative products. The zenith of the activities was marked by the development of **SOFTWARE OF DEVELOPMENT FOR VENTILATOR TESTER**. Our students were recently involved in **MULTI PARAMETER MEASUREMENT BASED APNOEIC DETECTOR POWERED USING LabVIEW**

Hot and cold room:

Hot and cold room is a part of bio chemistry lab where students carry out various chemical preparation and storage under suitable temperatures. Hot and cold room includes analytical equipments like digital colorimeter, UV visible spectrophotometer, laminar air flow, hot air oven, ophthalmoscope, incubator, autoclave, telemetry units, dissolved oximeter, pH meter and centrifuge.

the practice



The Association of Biomedical Engineering, Bio-Elixirz has been instrumental in providing exposure to the students, through interaction with eminent doctors, engineers and people eponymous with the field of Biomedical Engineering.

The activities are also aimed at improving the organisational skills of the students. Various symposia, workshops and guest lecturers have been organised under the chairmanship of the Head of the Department. The department hopes to extend its activities into further horizons.

The students attend in plant training at various renowned hospitals and have visited industries in an effort to bridge the gap between education and practicality.





the élan



SPEED **STRENGTH**
DEPARTMENT OF BIOMEDICAL ENGINEERING
SRI RAMAKRISHNA ENGINEERING COLLEGE

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