DEPARTMENT OF BIOMEDICAL ENGINEERING

VOLUME-1, ISSUE-1

"BIO-SCOPE"

Half Yearly Newsletter...

KPR
Institute of
Engineering and
Technology

"BIO-SCOPE"

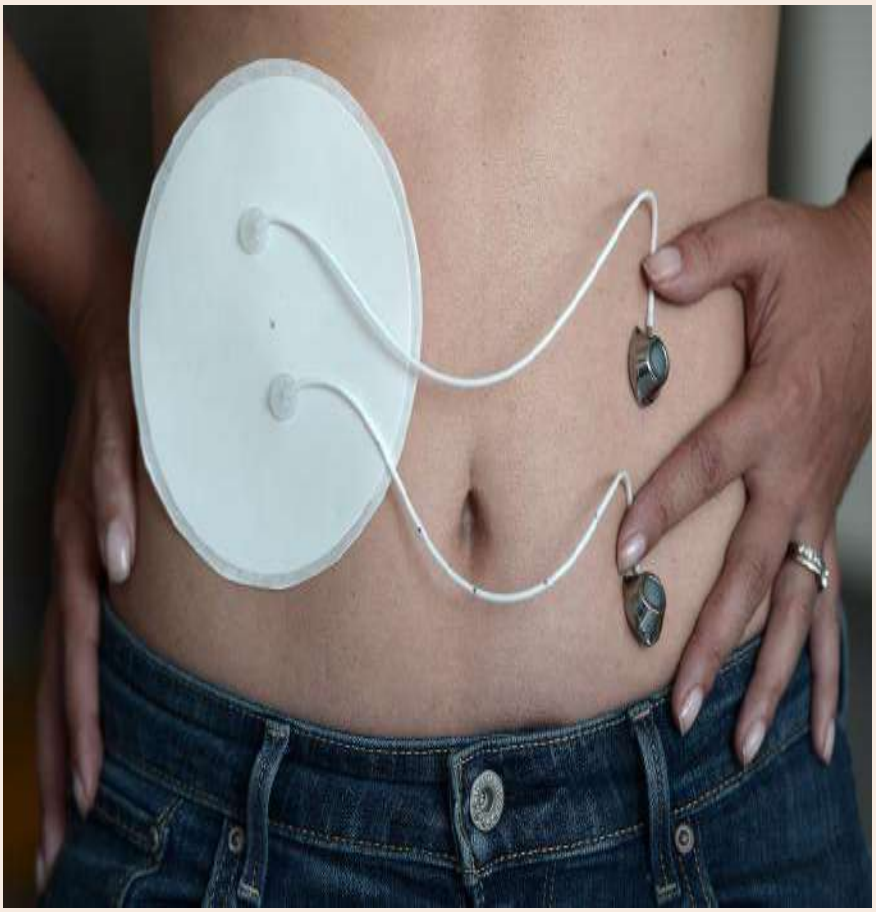
EMERGING TECHNOLOGY

Scientists invented a new technology attached to **SPHENOPALATINE GANGLION (SPG),** to help people suffering from migraines, cluster headaches, and other causes of chronic, excruciating head or facial pain, and those who believe that ordinary aspirin requires too much time to kill pain.

The Electronic Aspirin is a technology under clinical investigation at Autonomic Technologies, Inc. (Redwood City, CA) is a patient-powered tool for blocking SPG signals at the first sign of a headache. The system involves the permanent implant of a small nerve-stimulating device in the upper gum on the side of the head, which is normally affected by headache. The lead tip of the implant is connected with the SPG bundle, and when a patient senses the onset of a headache, he/she places a handheld remote controller on the cheek nearest the implant. The resulting signals stimulate the SPG nerves and block the pain-causing neurotransmitters.

ELECTRONIC ASPIRIN

ARTIFICIAL PANCREAS



Artificial pancreas uses man-made technology to match the way a pancreas works. It is a man-made device that is designed to release insulin in response to changing blood glucose levels in a similar way to a human pancreas. The technology, essentially an artificial pancreas, is expected to become more widespread this year as more patients demand the technology and more insurers reimburse the system. It uses algorithms to automatically and continuously deliver an adequate supply of insulin to the body based on blood glucose readings that are monitored continuously.Artificial pancreas systems are being studied as a possible treatment option for people with type 1 diabetes and type '2' diabetes.

BME NEWS

ARTIFICIAL LIMB CENTRE TO PROVIDE BIONIC LEGS TO MILITARY AMPUTEES

TIMES OF INDIA, PUNE, 16-APR-2018

The Indian Army's Artificial Limb Centre (ALC) has started providing bionic limbs to soldiers who have lost their legs in the line of duty. The new limb offers better stability and mobility to soldiers.

"We have given these limbs to two soldiers last month which has garnered positive feedback as it has increased their comfort level," ALC Commandant Brigadier S K Singh told TOI, "Since the cost of one limb is Rs12 lakh, we can't afford to provide the same to civilian patients right now."

The centre has imported the bionic limbs from multinational companies that already supply armed forces in western countries.

"The US and UK armies provide advanced limbs to their amputee soldiers. Most importantly, the beneficiaries have recovered fast and have rejoined duty. Some of the countries have even deployed such amputee soldiers in conflict zones," a senior army officer said.

DEPARTMENT ACTIVITIES

GUEST LECTURES

A guest lecture on **"Speak English in English"** had been organized on 26th March 2018. **Dr.Ramani**, Rtd. Professor and Head, Department of English, PSG, CAS & VIT University, enlightened the gathering with his eloquence and astounding speech. The professor with the gift of the gab threw light upon the nuances of pronunciation and ignited the spark of speaking English that sounds like the native speakers of English.

Dr.Ramani, Professor – Rtd. VIT & PSG CAS addressing the gathering

A guest lecture on **"Biomedical Engineering: Spheres and Frontiers"** had been organized on 3rd May 2018. **Dr.P.Krishnananda**, Chief Operating Officer of Royal Care Super Specialty Hospital addressed the gathering, He emphasized the magnitude and scope of practice of Biomedical Engineering. The chief guest stressed on the employability of the Biomedical Engineers, the skills required to be industry ready and mentioned the cutting edge technologies.

Dr.Balaguruprasad.N, Head-BME honoring the chief guest

STUDY TOUR

Ensuring exposure on practical concepts to students is imperative and it has been a part and parcel of our pedagogy. In this regard, a study tour had been organized on 2nd May 2018 to KG Hospitals in providing a hands on experience on technology embedded medical practices. A group of 60students along with three faculty Members visited the hospital. As a paragon of virtue, Dr. G. Bakthavathsalam, Chairman – KG Hospitals has left no stone unturned and helped to ignite the spirit of innovation and service in biomedical engineering within all our students.


BME students and faculty members with Dr.G.Bakthavathsalam, Chairman - KG Hospitals

ICT ASSESSMENTS

Use of Information &Communication Technology (ICT) in student assessments has been made as a part of instructionfor the Department of Biomedical Engineering.This ensures efficient and un-biasedassessment of the student's mastery over criticalconcepts. The immediate feedback mechanisms also allow all subject handling faculty and students to effectively tackle and concept areas that require remedial action.


Students attempting the ICT test

ANNA UNIVERSITY RESULT TOPPERS

ODD SEMESTER (2017-2018)

Name of the Student	Year	CGPA	Rank
Antopravin. C	I	9.44	I
Kiruthika. S	I	9.12	II
Selshiya. I	I	9.12	II
Patricia Nancy.S	I	9.0	III

STUDENTS' SUMMER INTERNSHIPS

K.G. HOSPITALS - COIMBATORE	Abhinandana. R	10 Days
GUNAM HOSPITALS – HOSUR	Sathya. V	10 Days
SHEELA HOSPITAL – COIMBATORE	Meenashree.B Subhashini Priyanka.B Pavithra. M	7 Days
DEEPAM HOSPITAL – SINGANALLUR	Kanimozhi. S Jenit. J	7 Days

Coordinator: Dr. Ramya .S

"Anything is possible. Anything can be."
SHELSILVERSTEIN