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KSRCT IEEE-EMBS STUDENT BRANCH CHAPTER NEWS LETTER



**K. S. RANGASAMY COLLEGE OF TECHNOLOGY**

(Autonomous), Tiruchengode, Tamil Nadu- 637 215

**DEPARTMENT OF BIOTECHNOLOGY**

# KSRCT IEEE-EMBS STUDENT BRANCH CHAPTER NEWSLETTER

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## **VISION OF THE DEPARTMENT**

**To produce competent Scientists, Technologists, Entrepreneurs and Researchers in Biotechnology through quality education.**

## **MISSION OF THE DEPARTMENT**

- **To be recognized as a place of excellence in teaching-learning through continual improvement process**
- **To work in close liaison with the industry to achieve socio-economic development through biotechnological ventures**
- **To facilitate students to perform as competent professional Biotechnologists**

### **The PEOs of the B.Tech., Biotechnology Program are:**

**PEO1: Technical Knowledge: Graduates are professionally competent in Biotechnology to solve problems in environmental, food, biochemical and biomedical engineering and technology**

**PEO2: Career Growth: Graduates demonstrate proficiency in theory and practice of biotechniques through life-long learning**

**PEO3: Professional Practices: Graduates perform as an individual and / or member of a team with professional and ethical behaviour.**



## **ENGINEERING GRADUATES WILL BE ABLE TO:**

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## **(A) PROGRAM SPECIFIC OUTCOMES (PSOs)**

- 1. Developing Technocrats:** Design and execute industry oriented experiments in biotechnology using modern tools and techniques.
- 2. Research and Technology Transfer:** Apply the knowledge of bioengineering and Technology to demonstrate research skills and develop technology for commercialization

## Editorial Executives

*A warm welcome...!*

*We the Editorial Board Member of KSRCT IEEE-EMBS student Branch Chapter feel happy and privileged to release the Newsletter-Volume 11 Issue 1, the measure of progress in the Department of Biotechnology. Biotechnology is the patenting of innovations, technology transfer to industries and close interactions with them. With the pristine purpose of presenting all that transpired in a marked period of time, we are coming-forth with our half-yearly Newsletter. The small initiatives that we take to go a long way in building upon the edifice of knowledge that empowers us, is the publishing of this Newsletter which is coverlet of the verdant landscape of scientific, technical and literary outpourings. A heartfelt thanks to Dr. J. Philip Robinson Branch mentor and Ms. S. Poornima, Staff Advisor of KSRCT IEEE-EMBS Student Branch chapter for their support. We are thankful to Mr. G. Manoj, Chair and Mr. E. Srithar, Vice chair of KSRCT IEEE-EMBS Student Branch chapter for supporting the Editorial Board Members in making the Newsletter come alive in a successful manner.*



## **KSRCT 1EEE-EMBS STUDENT BRANCH CHAPTER NEWSLETTER**

**1.1EEE-EMBS Student Branch Chapter, Department of Biotechnology, K. S. Rangasamy College of Technology organizes AICTE-SPICES Scheme sponsored Webinar on 'Guest lecture on Higher education' programme was held on 24/06/2019 at the biotech seminar hall.**

**2.1EEE-EMBS Student Branch Chapter, Department of Biotechnology, K. S. Rangasamy College of Technology organizes AICTE-SPICES Scheme sponsored Webinar on Guest lecture program based on Pharmacovigilance was held on 25/06/2019 at biotech seminar hall**

**3.1EEE EMBS Student chapter of Department of Biotechnology was arranged Industrial Vist to Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum on 30.08.2019. Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) is an Institution of National Importance under the Department of Science and Technology, Govt. of India.**

**4.1EEE-EMBS Student chapter of Department of Biotechnology was conducted online quiz for Second, Third and Final year of Biotechnology at Biotech Seminar Hall on 20-09-19.**

**CONSULT NOT YOUR FEARS BUT YOUR HOPES AND YOUR DREAMS.  
THINK NOT ABOUT YOUR FRUSTRATIONS, BUT ABOUT YOUR  
UNFULFILLED POTENTIAL. CONCERN YOURSELF NOT WITH WHAT YOU  
TRIED AND FAILED IN, BUT WITH WHAT IT IS STILL POSSIBLE FOR YOU  
TO DO.**

**-POPE JOHN XXIII**

## GUEST LECTURE ON HIGHER EDUCATION

Guest lecture program on higher education programme was held on 24/06/2019 at the biotech seminar hall for the final year students on the behalf IEEE EMBS student chapter. Dr.J.Philip Robinson, Head of the Department has welcomed our chief guest Osama Sayed, Business development consultant from Staar Uniadvise P.LTD. He gave a brief lecture on Master's in abroad. He mentioned countries which will be the best for biotech students



*"introduction about guest lecture"*

He cleared a doubt about the procedure to go abroad. He shared about their alumni's who went abroad for their master's. He told the importance of the exams like IELTS, GRE etc., And he consult the scholarship which available in that country.

A.Switha- Chairperson of IEEE EMBS student chapter from Final year of B.Tech has given vote of thanks.



*"guest interaction with student"*

This lecture is to create an impact among the student about higher education and masters in abroad

*"GIVE A MAN A FISH AND YOU FEED HIM FOR A DAY; TEACH A MAN TO FISH AND YOU FEED HIM FOR A LIFETIME."  
-MAIMONIDES*



## GUEST LECTURE ON PHARMACOVIGILANCE

Guest lecture program based on Pharmacovigilance was held on 25/06/2019 at biotech seminar hall for final and pre-final year of B.tech Biotechnology on the behalf IEEE EMBS student chapter.



*"student interaction with guest lecture"*

*Dr.J.Philip Robinson, Head of the Department gave welcome address for Syed from Professional infotech. He started his lecture with courses offered from their company. He gave an brief knowledge about medical coding medical transcription etc., .*

*"LET US BE THE ONES WHO SAY WE DO NOT ACCEPT THAT A CHILD DIES EVERY THREE SECONDS SIMPLY BECAUSE HE DOES NOT HAVE THE DRUGS YOU AND I HAVE. LET US BE THE ONES TO SAY WE ARE NOT SATISFIED THAT YOUR PLACE OF BIRTH DETERMINES YOUR RIGHT FOR LIFE. LET US BE OUTRAGED, LET US BE LOUD, LET US BE BOLD."  
— BRAD PITT*

*He also shared about the process of work which has been taken part in clinical research and trial data management.*

*He gave an opportunity to attend the classes of their courses. Atlast P.Pavithra member of IEEE EMBS student chapter gave a vote of thanks*



## **INDUSTRIAL VISIT FOR IEEE-EMBS STUDENT MEMBERS**

*IEEE EMBS Student chapter of Department of Biotechnology was arranged Industrial Vist to Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum on 30.08.2019. Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) is an Institution of National Importance under the Department of Science and Technology, Govt. of India. The joint culture of medicine and technology pioneered by its founders more than three decades ago, has come of age and gained unprecedented acceptance in India.*

*I WAS IN AN INDUSTRIAL LABORATORY BECAUSE ACADEMIA FOUND ME UNSUITABLE.  
-BENOIT MANDELBROT*





*"Industrial visit to Sree Chitra Tirunal Institute for Medical Sciences and Technology"*

Head of the Department of Biotechnology Dr.J.Philip Robinson, Vasanth, Kaleeswaran, Switha, Pavithra, Monisha, Yuwasri from Final year Biotechnology, Anishkaa from 111 year Biotechnology, Mohammed Irfan, Pradeep, Manoj, Sanjay from 11 year of Biotechnology was Visited the institute Sree Chitra Tirunal Institute for medical Science and Technology and they learned many techniques related to their studies. And they learned the importance of Product development to meet the market in this era.



*"explanation of instruments given by staffs"*

*"YOU GET TO DECIDE WHERE YOUR TIME GOES. YOU CAN EITHER SPEND IT MOVING FORWARD, OR YOU CAN SPEND IT PUTTING OUT FIRES. YOU DECIDE. AND IF YOU DON'T DECIDE, OTHERS WILL DECIDE FOR YOU."  
-TONY MORGAN*

### **ONLINE QUIZ COMPETITION**

IEEE-EMBS Student chapter of Department of Biotechnology was conducted online quiz for Second, Third and Final year of Biotechnology at Biotech Seminar Hall on 20-09-19. Staff coordinator Dr.S.Poornima, Department of Biotechnology and Chair-Person of IEEE-EMBS Student chapter A.Switha Final year Department of Biotechnology has organized in a new way to attend quiz for students.



*"Participants of quiz competition "*



Top 10 will select and they will award with certificate. Quiz contains total 50 questions based on Biotechnological techniques and another 25 questions based on general knowledge. Totally 35 interested students participated in this competition.



"Glimpse of quiz competition"

"YOU GET TO DECIDE WHERE YOUR TIME GOES. YOU CAN EITHER SPEND IT MOVING FORWARD, OR YOU CAN SPEND IT PUTTING OUT FIRES. YOU DECIDE. AND IF YOU DON'T DECIDE, OTHERS WILL DECIDE FOR YOU."  
 –TONY MORGAN

## IEEE FOUNDATION GRANTS PROGRAM

On account of creating awareness and em-pathizing of technology and its impact on society, IEEE Foundation Grants Program has been initiated. A sum of US\$5,000 and US\$100,000 will be granted for the projects opted For A set of four students can form a team. The time span of project is limited to 12 months

Students can start submitting their proposals with pre defined objectives from February to July. Acceptance of the project proposed will be intimated by December. The project leader should have the capacity of carrying out the project. Projects with innovation, clearly defined need, successfully replicable will be sorted out by a joint committee of the IEEE Foundation Board of Directors and the IEEE Life Members Committee.

YOUR TALENT DETERMINES WHAT YOU CAN DO. YOUR MOTIVATION DETERMINES HOW MUCH YOU'RE WILLING TO DO. YOUR ATTITUDE DETERMINES HOW WELL YOU DO IT."  
 –LOU HOLTZ

## Conference

The IEEE EMBS has conducted the 41st International Engineering in Medicine and Biology Conference, held in Berlin, Germany dated July 23-27, 2019.

The overarching theme was "Biomedical engineering ranging from wellness to intensive care".



*They have arranged plenary keynotes from leading academic and industrial scientists, who have presented aspects of innovation and translational engineering in biomedicine. the scientific tracks will cover the standard topics of the EMBS technical committees. Beside the scientific sessions,*



*"41st International Engineering in Medicine and Biology Conference"*

*The congress exhibition will show biomedical companies, start-ups, biomedical institutes, universities, and provide networking opportunities for engineers, clinicians, other scientists, entrepreneurs and students.*

*The conference consisted of mini symposia, workshops, invited sessions, oral and poster sessions, sessions for student and young professionals, sessions for clinical and entrepreneurs, and a large exhibition has been arranged in a excellent way.*

*.The conference was held on Berlin, which is currently developing a major healthcare hub in Germany with three universities, the Berlin Institute of Health (BIH), Health capital, and more than 100 regional companies active in the health care business.*

*"You are unique. You have different talents and abilities. You don't have to always follow in the footsteps of others. And most important, you should always remind yourself that you don't have to do what everyone else is doing and have a responsibility to develop the talents you have been given."*

*— Roy T. Bennett, The Light in the Heart*



# GALLERY



*"introduction about guest lecture"*



*"Industrial visit to Sree Chitra Tirunal Institute for Medical Sciences and Technology"*



*"guest interaction with student"*



*"explanation of instruments given by staffs"*



*"Glimpse of quiz competition"*