



# KPR Institute of Engineering and Technology

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"We are Engineers for Doctors"

Biomedical Engineering is one of the premier Engineering disciplines among technocrats since it merges Healthcare Technology with Electronics and Software technologies including Artificial Intelligence, Machine Learning, Robotics in Medicine, Bioinformatics, Prosthetic Engineering etc. to serve better to the human community with advance and continuously upgrading technologies. In KPRIET, we nourish our students with advance laboratories like Bio-signal processing, Diagnostics and Therapeutic Equipment, Human Anatomy and Physiology, Biomedical Instrumentation to learn by practicing. Hospital training and internship are arranged with leading multispecialty hospitals and biomedical industries to facilitate the students for better career. Research activities are vibrant with publications and patents in the recent trends.

**Dr. D. Ganesh kumar HoD/BME**

## Highlights of this month

### July 01

Online Webinar session with Alumni

### July 11 - 13

Industrial oriented One Credit Course for III BME

### July 14 - 16

International Conference on Ancient Medical Science and Technology (ICAMST 2022)

### July 24

Eye Camp - ISR activity (BME & KMC)

### July 27

IA Webinar Business networking for women BME & CIED

**BIO-SCOPE**  
BIO-SCOPE

Monthly Newsletter: Department of Biomedical Engineering

# EDITORIAL BOARD

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Mr. R. Krishna kumar, AP/BME, KPRIET

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Department Programs Organized  
Faculty Contribution  
Faculty & Student Achievements  
Placement Activities



## About KPRIET

KPR Institute of Engineering and Technology (KPRIET), founded by Dr. K. P. Ramasamy, stands out as a leading institute of academic excellence by imparting technical, intellectual and professional skills to students. The Institution is ranked 200-250 band by NIRF. The institute, with its diverse and energetic community of students offers a distinguishing blend of some of the premium graduate, undergraduate and research programs, talented faculty, world class amenities and a residential campus set on a sprawling 150 acres of lush green campus.

While students at KPRIET immerse themselves in academics, the institute has a lot in store for them outside the classroom. Student life includes participation in sports, co-curricular activities and cultural. In short, at KPRIET, students will find an academic and social environment where everyone- from faculty members to peer's support shape their future.

KPRIET is a home to artistically designed buildings with state of the-art computer and internet facilities, modern workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields in addition to an indoor badminton court and gymnasium.

KPRIET has a faculty strength of 227 with a faculty student ratio of 1:15. Out of the total, 97 faculty members PhDs. and 102 are in the process of completing their PhDs. As an exemplary institution of learning, KPRIET follows an admission policy that strongly favours merit, even as it enables access to education for students from all strata of society through appropriate scholarships. The Institution boasts of a strong alumni network with alumni events held every year serving as a platform for past students to give back to KPRIET and share their experiences with its present fellow students.

## About the Department

The Department of Biomedical Engineering of KPR Institute of Engineering and Technology, Coimbatore was established in the year 2017 with an annual intake of 60 students. The Department has highly qualified faculty members with Ph. D. and M. E. / M. Tech. under various specialize such as Biomedical Signal and Image Processing, Medical Electronics, Healthcare Data Analytics, Biomaterials, Regenerative medicine and Nanoscience.

The faculty members contribute to academic development by publishing books / journals, products, patent filing and presenting papers in International and National Conferences. The Department of Biomedical Engineering signed MoUs with the reputed industries like Aravind Eye Care Hospital, Helix Private Ltd., GEM Hospitals, Ganga Medical Center and Hospital, Masonic Medical Centre for children, Waxwing Medical Technologies, Vital Bio-systems to bridge the gap between theory and field practices.

The Department also provides an opportunity for students in improving practical knowledge in the field of Biomedical Engineering and Software skills like MATLAB, LabVIEW, Proteus, Pspice simulation

through KPI Centre of Excellence, in addition to Communication and Presentation skills. The students have to undergo Industrial Training and Industrial Visit to facilitate them to take up industrial live projects to understand the industry needs. The Department of Biomedical Engineering as well as faculty members has lifetime membership in various Professional Societies like ISTE, BMESI and IBSC. The Department of Civil Engineering has various Students Chapter like ISTE and BMESI to gain knowledge through various programs conducted by these bodies across the Nation

### **Vision of the Department**

Be at the forefront in providing multidisciplinary education in engineering, technology and biological sciences, thereby providing our students, the future engineering professionals with the skills required to develop avant-garde devices and technologies to assist medical professionals in providing exceptional healthcare.

### **Mission of the Department**

The Mission of the Department is to

- Establish new teaching paradigms to converge biomedical engineering education to unveil creativity and innovation in clinical health care.
- Build an integrated team of biomedical engineering community to nurture cutting-edge technologies through research and development.
- Collaborate and promote partnership with healthcare industry to enrich employability skills and be in phase with their progress.
- Impart moral values, inculcate ethical behaviour and practice life-learning.

## Programs Organized

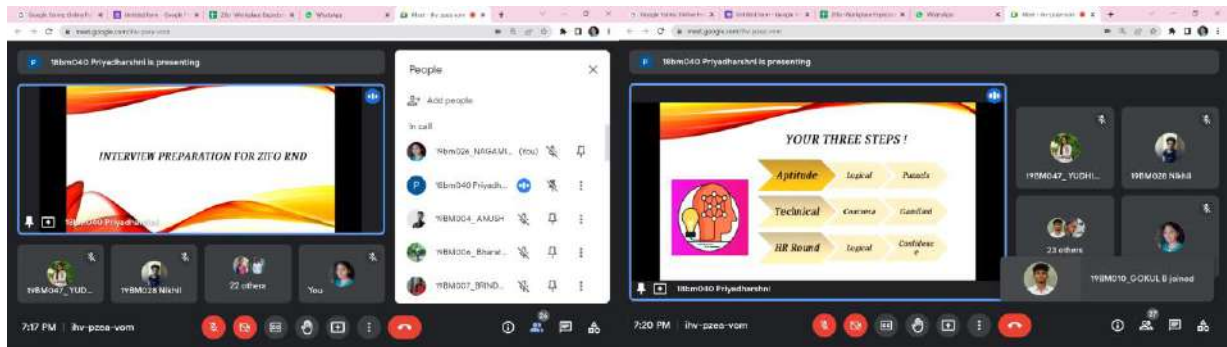
### LIST OF EVENTS CONDUCTED FOR THE ACY 2022-23

Event No.	Date	Type of Event	Title of the Event
1	01.07.2022	Webinar -Alumni	Zifo – Workplace Expectations
2	11.07.2022 to 13.07.2022	One Credit Course	Industrial Oriented one credit course U19OBM01- Bio signal Acquisition and Processing using LabVIEW
3	14.07.2022 to 16.07.2022	Conference	International Conference on Ancient Medical Science and Technology (ICAMST 2022)
4	24.07.2022	ISR Activity (BME & KMC)	Eye Camp
5	27.07.2022	Webinar (BME & CIIED)	IA Webinar on Business networking for Women

EVENT 1

ZIFO WORKPLACE EXPECTATIONS

The Department of Biomedical Engineering organized a session on "Zifo Workplace Expectations" on 01.07.2022 to obtaining the idea of Workplace expectation in Zifo. The session was addressed by Ms. K. Priyadharshini, Associate Analyst, Zifo RnD, Alumni (2018-22 Batch, BME). The Speaker gave a small introduction on what is ZIFO and what kind of services ZIFO provides. She said that ZIFO is a Global BioPharma R & D Services Specialist providing best in class R & D Solutions and services that drives efficiency across the entire BioPharma R & D spectrum. They provide scientific informatics, lab informatics, clinical biometric, regulatory compliances including computer system validation and genome informatics services from global offices across US, UK, FRANCE, GERMANY, SINGAPORE AND INDIA. They have been listed as one of the fastest growing companies for 8 consecutive years by Deloitte. Their services are entirely science driven and they look for candidates with background in sciences and life sciences as well.





EVENT 2

INDUSTRIAL ORIENTED ONE CREDIT COURSE

The Department of Biomedical Engineering has organized a One Credit Course for III<sup>rd</sup> BME students on "**Bio-signal Acquisition and Processing using LabVIEW**" on 11.07.2022 to 13.07.2022 for three days to teach the concepts of LabView to enhance the software knowledge of students. The session was addressed by Mr. Boopathi Sakthivel, CEO & Founder, Prashan Medical Technologies, Coimbatore and taught how Bio signal Acquisition can be done using LabView and made students to learn the concepts through Project works and Examination at the end of 3<sup>rd</sup> day for III<sup>rd</sup> BME students of KPRIET. Total 67 students and two faculty members have attended the sessions and got benefitted.

**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous, NAAC "A")

**Department of Biomedical Engineering**

**Great Place To Work Certified**

ORGANIZES  
**BIO SIGNAL ACQUISITION AND PROCESSING USING LABVIEW**  
**AN INDUSTRIAL COURSE**

**11<sup>th</sup> -13<sup>th</sup> July 2022**  
Venue: BME III year classroom

LABVIEW PROGRAMMING  
BIOMEDICAL APPLICATIONS  
BIOSIGNAL ANALYSIS

IN ASSOCIATION WITH  
**prashan**  
PRASHAN MEDICAL TECHNOLOGIES COIMBATORE

Faculty Coordinators  
Ms.B Priya Darshini AP /BME  
Dr. A. Ailwyn Ganadasas AP (Sr.G)/BME

Student Coordinators  
K. S. Gayathri, III year/BME  
P. Vytheeswar, III year/BME

Convener  
Dr. D. Ganeshkumar Prof & HoD/BME



EVENT 3

**INTERNATIONAL CONFERENCE ON ANCIENT MEDICAL SCIENCE AND TECHNOLOGY (ICAMST 2022)**

The Department of Biomedical Engineering, KPR Institute of Engineering and Technology (KPRIET), Coimbatore in association with Siddha Vetha Centre for Transdisciplinary Studies (SVCTS) – USA, Canada & UAE organized an International Conference on Ancient Medical Sciences and Technology (ICAMST 2022) on 14-16 July, 2022.

This conference manifested the global multiversity by utilizing the transdisciplinary preventive and non-invasive forms of healthcare and sciences to save and enhance many lives and balance the Earth’s ecosystem for a better world.

Final year students of BME, Four Faculties of BME and External participants from various countries have presented their work in the conference.

Valedictory ceremony for this conference was conducted on 16.07.2022 and was presided by Dr. K. P. Ramasamy, Chairman, KPR Group. The Guest of honour for the Ceremony was Hon’ble Dr. M. Mathiventhan, Minister for Tourism, Government of Tamil Nadu. Dr. V. Thiruvalluvan and Dr. Jaya. Rajamoorthy, Director – Department of Medical and Rural Health Services and President, Vallalar Tamil Forum, Tiruvenkadu were the Special invitees. Mr. Umopathy, Great Grandson of Vadalur Vallalar graced this ceremony with his presence.

During his guest of honour, Hon’ble Dr. M. Mathiventhan, Minister of Tourism, Government of Tamilnadu, lauded the author Dr. Jaya. Rajamoorthy on his great work on “vallalarum periyarum”, two juxtapositioned ideology personals. He shared his respect for the two great reformers. He also complimented KPR groups for their philanthropy works.

Book on “Vallalarum Periyarum” by Dr. Jaya. Rajamoorthy was released on this occasion.







## EVENT 4

## EYE CAMP

The Department of Biomedical Engineering in association with KMC, organized a **Free Eye camp** on 24.07.2022 as an ISR activity. The Event Coordinator Professor Dr. P. Sreelatha and six student volunteers have involved themselves in serving civilians to address about their clinical issues related to Eye and coordinated with Ophthalmologists in creating awareness about eye donation. Many people from remote areas came for Eye checkup. The Ophthalmologists came with well-equipped devices to examine and treat the patients for a noble cause. Free cataract surgeries for more than 150 patients were arranged. Around 825 patients have got benefitted with the eye camp.





## EVENT 5


## IA WEBINAR BUSINESS NETWORKING FOR WOMEN


The Department of Biomedical Engineering and Centre for Innovation, Incubation and Entrepreneurship Development organized a Webinar on "**Business Networking for Women**" on 27.07.2022. The program Coordinator Professor Dr. P. Sreelatha felicitated the gathering and introduced the chief guests. The session was addressed by the chief guests. They have explained Women are usually said to be more "social" overall, however they are seen to network lesser than men. Business networking offers several advantages, including connecting you with others who share your interests, hobbies and career path. Meeting like-minded people in business can not only provide women with a virtual Thesaurus of prospective contacts, but it can also lead to long-lasting connections. The meeting acknowledged the fact that business networking can be tedious and awkward; thus, discussing on effective first time meetings, preparing to meet VIP's, methodology to get into useful conversations were discussed. About 46 participants has attended and gain knowledge in Business Networking for Women.


**Department of Biomedical Engineering  
&  
Centre for innovation Incubation and Entrepreneurship  
Development**

Organizes  
webinar  
on

**Business Networking for Women**








 **Meeta Gutgutia**  
Co - Founder Ferns N Petals

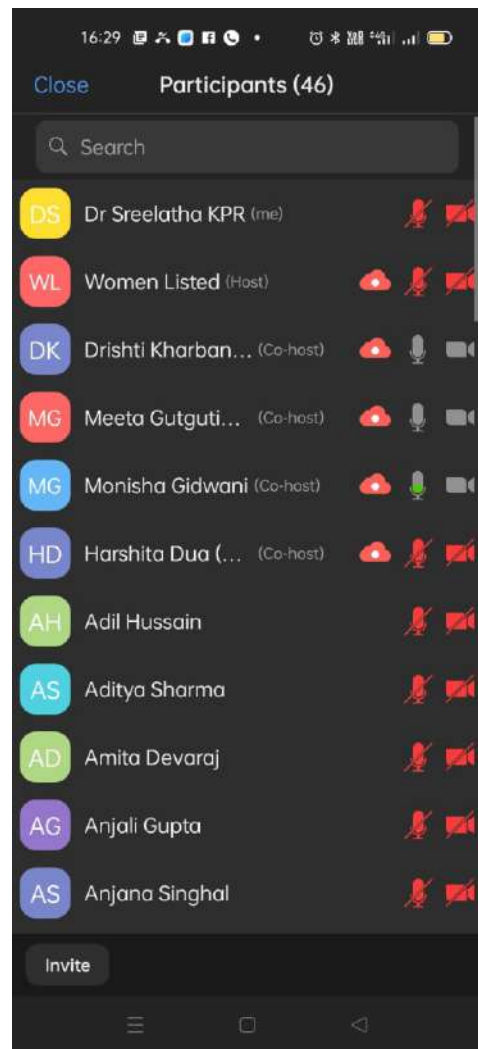
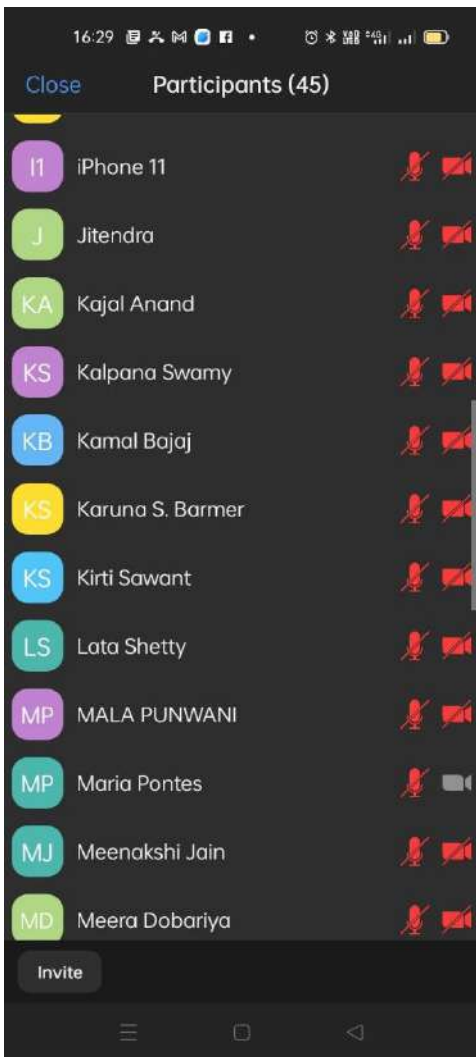
 **Monisha Gidwani**  
Business mentor/consultant

 **Drishti Kharbanda**  
CEO WomenMadeCraft

**Registration Link**  
<https://us06web.zoom.us/join/register/tZ0sdOqgqTMuGNQPGW0CqfszZY7WF0MnlWSx>

**Faculty Co-ordinator**  
Dr.P. Sreelatha/ Professor/BME  
Innovation Ambassador/KPRIET

 27/07/2022  4.00PM **Live Show**     



## Student Achievements Extra-Curricular Activities

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Name of the Students	Name of the Event	Achievements
IV – year BME	Conference Conducted in KPRIET ICAMST 2022	Participated in Paper Presentation
III – year BME	Industry Internship	Completed two weeks of Internship training

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## Faculty Contribution

### Webinar/ Workshop / FDP / Internship/ Conference Attended

Name	Name of the Webinar/ Workshop/ FDP/ Internship	Organized by	Date
<b>Dr. P. Sreelatha</b>	National Intellectual Property Awareness Mission training program	Intellectual Property office and MOE's Innovation cell, India	08.07.2022
<b>Mr. R. Krishna kumar</b>	Lifetime Extension of Wireless sensor Networks Webinar	Continuing Education Program, KPRIET	19.07.2022
<b>Dr. Allwyn Gnanadas, AP (Sr.G) / BME</b>	Paper Presentation in ICAMST 2022 conference	Dept of BME, KPRIET, Coimbatore, India in association with Siddha Vetha Centre for Transdisciplinary Studies (SVCTS) – USA, Canada & UAE	14.07.2022 to 16.07.2022
<b>Dr. Arun kumar, AP/BME</b>	Paper Presentation in ICAMST 2022 conference	Dept of BME, KPRIET, Coimbatore, India in association with Siddha Vetha Centre for Transdisciplinary Studies (SVCTS) – USA, Canada & UAE	14.07.2022 to 16.07.2022
<b>Dr. Gayathri, AP/BME</b>	Paper Presentation in ICAMST 2022 conference	Dept of BME, KPRIET, Coimbatore, India in association with Siddha Vetha Centre for Transdisciplinary Studies (SVCTS) – USA, Canada & UAE	14.07.2022 to 16.07.2022
<b>Mr. R Krishna kumar, AP/BME</b>	Paper Presentation in ICAMST 2022 conference	Dept of BME, KPRIET, Coimbatore, India in association with Siddha Vetha Centre for Transdisciplinary Studies (SVCTS) – USA, Canada & UAE	14.07.2022 to 16.07.2022

## Placement Activities

S. No.	Name of the Company	Total placement Interested	Number of students attended	Number of students cleared	% Of students cleared
1	Aptean	27	3	1	33.3
2	Avasoft	27	5	4	80
3	ERP Roots	27	2	1	50
4	Infosys	28	19	9	47.4
5	Netcon	27	5	1	20