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Department of Biomedical Engineering | EBSA

JANUARY - JUNE 2022



SILIENCE

Biannual Newsletter from Department of Biomedical Engineering VOLUME 9 / ISSUE 1

DEPARTMENT VISION

Emerge as a pioneer in biomedical engineering for providing affordable and accessible biomedical technology.

DEPARTMENT MISSION

Nurture high caliber biomedical professionals by integrating science, mathematics, engineering and medicine through quality education with excellent faculty and infrastructure.

Facilitate extensive hands-on training, interdisciplinary research and innovations by collaborating with medical and industrial experts

Encourage graduates to be socially and ethically responsible biomedical engineers for the betterment of society.

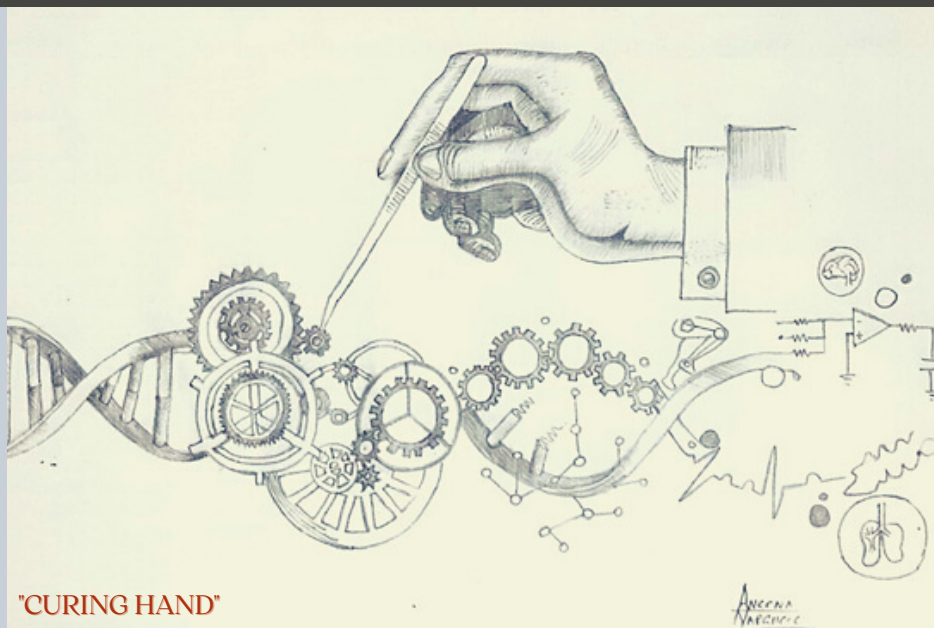
From HOD's Desk



Greetings from the Department of Biomedical Engineering. It gives me immense pleasure to see new volume of the "SILIENCE" the biannual Newsletter from Dept of Biomedical Engineering.. Newsletter is all about how the life of the Department is disseminated. In the present scenario, the Department Association EBSA was organizing the event through online and offline platforms without losing the energy and essence. All are neatly available in the news letter. The Newsletter is also enriched with faculty and student achievements and the recent developments in Biomedical Engineering. I want to congratulate and thank all my students, colleagues, and especially the Department Association EBSA for this wonderful effort.

Dr. Finto Raphael

Asso. Professor & Head, Dept of BME



"CURING HAND"

Illustration by ANEENA VARGHESE | THIRD YEAR BME

FROM FACULTY ADVISOR

Dept Newsletter "SILIENCE" is a collection of all the programs and events happened in the dept over the last one year. It is quite inspiring to go through the pages of the newsletter to see the vibrancy and range of the department in terms of the length and breadth in which various events were organized.

This time special attention has been kept in redesigning the layout, adding new columns and incorporating students' contributions. Hope everyone will appreciate the changes.

I would like to thank the Head of the dept, Faculty members and all the dear students for their support and help to bring out this volume in its present form. I also thank the student team behind this venture

Jis Paul, Asst. Professor, Dept of BME



FROM EBSA SECRETARY

One cannot just wish for a goal and expect to accomplish it. It takes a sequence of efforts to achieve a goal, and as engineering students, each semester was a part in the direction of developing an engineer in us. It was a great opportunity for us to publish the new edition of "SILIENCE"- biannual newsletter of the department of biomedical engineering. As the secretary of EBSA it's my privilege to express my gratitude to the faculty and my friends who have supported and helped me in curating and designing the Newsletter. Hope you all would appreciate the flavor and content of the newsletter

Clinto Martin, EBSA Secretary, Final year BME



STUDENTS' ACHIEVEMENTS

Mr. Antony Paul from final year BM has been selected as the student volunteer of IEEE Kochi Hub 2022.



Ms. Rithika Rajith from final year BM has been awarded with diamond ring for achievement as best student.



Ms. Sweta Manoj of S8 BM won first position for the Best Campus Ambassador Award in All Kerala Industrial Application Society Conclave organized by IEEE at RIT Kottayam.



- **Mr. Adil Umer A H** Biomedical department 2nd year secured 2nd place in National Armwrestling championship held at Goa on 19th May. He also got selected to represent India in Asian championship at Malaysia.
- He has been elected as Vice Chairperson of WIE



Mr. Voytien Joy of Third year BM has been elected as Representative to the University



Mr. Ashwin Ashokan of third year BM has been elected as Chief Creative Officer of IEDC



Ms. Aswathi K B of Third year BM has been elected as Joint Sports Secretary



Ms. Greeshma Nadh P G of second year BM has been elected as IEEE SB Vice Chairperson, SCET



Ms. Deepika A. of Third year BM has achieved 10.0 SGPA in S4 University Examinations



Mr. Pranav Seby of third year BM has been elected as IEEE SB Joint Secretary, SCET



Ms. Safa Abdul Salam of second year BM has been elected as IEEE EdSoc Chair person, SCET



Mr. Savio Samson of third year BM has been elected as IEEE Vice Chairperson of NPSS, SCET



Ms. Josna Wilson of second year BM has been elected as IEEE Photonics Secretary, SCET



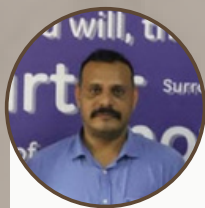
Mr. Nethin Lazar of S6 BM won second prize for a quiz competition conducted by Central Library on World Quiz Day.



Third year BM students won GOLAZO 2022 5's Football Tournament organized at college during 24th to 26th May, 2022. And Sharo has won the Top Scorer Award From the top left Team Members are: **Joel Jacob, Anit Roy, Aloshious Baiju, Anoop KM, Edwin Antony (C), Muhd. Siraj, Sharo William Paul**



FACULTY ACHIEVEMENTS



- **Dr. Yuvaraj V** has been selected as Students Activity chair in IEEE Kochi subsection.
- **Dr. Yuvaraj V** was the speaker for the webinar on “Benefits and Opportunities of IEEE” conducted by Mangalam College of Engineering on 29/1/2022.
- **Dr. Yuvaraj V** attended & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Nanostructured Materials and Their Applications" from 07/02/2022 to 11/02/2022 at National Institute of Technology Manipur.



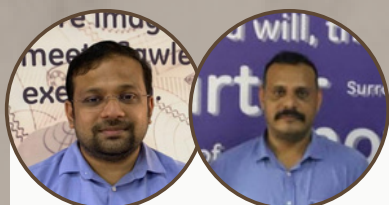
- **Dr. Remya George and Mr. Jibin Jose** delivered a session on “Innovation Development through Academic Project work” at Govt. Polytechnic College, Perinthalmanna



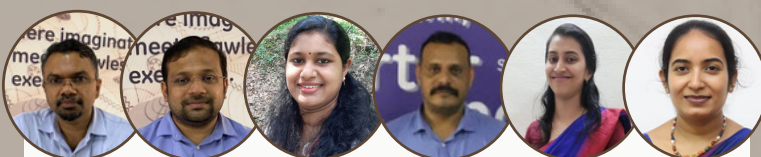
- **Mr. Jibin Jose** delivered a talk for the Resilience Roundtable on “Green Entrepreneurship Opportunities and Challenges in Kerala” conducted on February 1st 2022 by Kerala Startup Mission.
- **Mr. Jibin Jose** has been selected for a Four Day Management Development Programme (MDP) organized by KSUM in association with IIM -K from 21st to 24th March 2022.
- **Mr. Jibin Jose**, Assistant Professor in the department of Biomedical Engineering has been selected as one of the panel of members to the monitoring committee to the university Start up cell.



- **Mrs. Reshma Jose** published a paper titled “Liver cancer detection based on various sustainable segmentation techniques for CT images” in the International Journal of Environmental Technology and Management, 2022, 25(3)



- **Mr. Jibin Jose and Dr. Yuvaraj V** from the department of Biomedical Engineering attended “Research Innovation Network Kerala (RINK)-Research Translation & Commercialisation” organized by Kerala Start up Mission & Innovation and Entrepreneurship Development Center, Sahridaya College of Engineering and Technology on 8th April 2022.



- **Mr. Jis Paul, Mr. Jibin Jose, Dr. Remya George, Dr. Yuvaraj V, Mrs. Supriya Mary Sunil and Mrs. Reshma Jose** attended two-day Online Faculty Development Programme on “Recent Trends in Bio-signal Acquisition and Research Perspectives in Signal Analysis” during 25-26, March 2022 organized by Department of Instrumentation and Control Engineering, NSS College of Engineering, Palakkad.

DEPT/ EBSA ACTIVITIES

25/1/2022

AN ALUMNI INTERACTION BY MR. LEESON VARGHESE OF 2014-18 BIOMEDICAL ENGINEERING BATCH CURRENTLY WORKING AS BIOMEDICAL ENGINEER AT DUBAI



18/2/2022

AN ONLINE TALK ON THE TOPIC "ANALYTICAL AND DIAGNOSTIC EQUIPMENTS" WAS CONDUCTED BY THE INDUSTRIAL EXPERT DR. PETER VARKEY, SR.MANAGER, QA AT AGAPPE DIAGNOSTICS LTD, ERNAKULAM, KERALA.

8/3/2022

WOMEN'S DAY PROGRAM WAS CONDUCTED BY THE WOMEN'S CELL OF SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY IN WHICH THE STUDENTS OF EBSA PERFORMED A MIME ON THE TOPIC "GENDER EQUALITY TODAY FOR A SUSTAINABLE TOMORROW".

9/3/2022

A DEMO SESSION ON ANALYSERS WAS CONDUCTED BY THE COMPANY RIGEL.



10/3/2022

DEPT OF BME IN ASSOCIATION WITH EBSA IS ORGANIZED AN EXPERT TALK ON THE TOPIC "HOW TO BUILD YOUR CAREER IN BIOMEDICAL ENGINEERING" BY MR. AYYAPPADAS, CHIEF TRAINING OFFICER AND MR. HARISH KRISHNA, HR MANAGER, HARVEY BIOMEDICAL SYSTEMS.

25/3/2022

MR. JIBIN JOSE, ASSISTANT PROFESSOR IN THE DEPARTMENT OF BIOMEDICAL ENGINEERING CONDUCTED A TALK ON "LEADERSHIP SKILLS FOR TEACHERS"



2/4/2022

THE FACULTY FROM THE DEPARTMENT OF BIOMEDICAL ENGINEERING VISITED THE REHAB TECH EXPO 2022, ORGANIZED BY FOUNDATION FOR INTERNATIONAL REHABILITATION RESEARCH AND EMPOWERMENT, THRISSUR



11/04/2022

THE BLESSING OF THE NEW LAB "BIOMEDICAL WORKSHOP" (ROOM NO: 307 BIO BLOCK) AND INAUGURATION OF BOOKS DONATED BY BM ALUMNI (2011-2015 BATCH AND 2012-2016 BATCH) TO THE DEPARTMENT LIBRARY WAS CONDUCTED ON 11/04/2022, MONDAY AT 10.30 AM.



23RD TO 27TH MAY 2022

A FIVE DAY INTERNSHIP PROGRAM WAS OFFERED BY BIOMEDICAL ENGINEERING DEPARTMENT TO THE STUDENTS OF K.KARUNAKARAN MEMORIAL MODEL POLYTECHNIC COLLEGE, MALA



27/5/2022

THE SEND OFF CEREMONY FOR FINAL YEAR STUDENTS WAS CONDUCTED.



3/6/2022

THE DEPARTMENT OF BIOMEDICAL ENGINEERING CONDUCTED A 2 DAY INTERACTIVE SEMINAR CUM HANDS ON WORKSHOP ON-"ELECTRONIC PRODUCT BUILDING" BY ANTU DOMINIC CHIEF TECHNICAL OFFICER, TRUETEK WORLD,ANGAMALY ON 3RD AND 4TH OF JUNE 2022.

13/6/2022

THE STUDENTS FROM S6 BIOMEDICAL ENGINEERING ATTENDED THE KIMS NATIONAL BIOMEDICAL CONFERENCE AND VISITED THE TESTING AND CALLIBRATION LAB FACILITY OF KIMS, TRIVANDRUM



24/6/2022

A GROUP GUIDED BY DR.REMYA GEORGE AND MR.JIBIN JOSE PARTICIPATED IN HEALTH TECH SUMMIT ORGANIZED BY KERALA STARTUP MISSION, AT KOCHI AND EXHIBITED THREE PROJECTS NAMED "ADAPTIVE NOISE SUPPRESSION DEVICE", "SMART CERVICAL COLLAR", "AN INTERACTIVE EXERCISE COMPANION FOR REHABILITATION OF OBESE CHILDREN AND GERIATRICS"



PLACEMENT ACHIEVEMENTS

AGAPPE



Clinto Martin
Final Year BME



Alfin Joseph
Final Year BME



Albin Simon
Final Year BME

Capgemini



Sweta Manoj
Final Year BME



Shazil Sherif
Final Year BME



Sourav Vinaya Kumar
Final Year BME



Sandra S
Final Year BME



Jasmine John
Final Year BME



Mariya Francis
Final Year BME



Merina S Thomas
Final Year BME

ZIFO



Anitta Raphael
Final Year BME



Noil Davies
Final Year BME



Rinta Raju
Final Year BME

cognizant



Rithika Rajith
Final Year BME



Merina S Thomas
Final Year BME



Ashamol TA
Final Year BME

RAPID Diagnostics



Angel Rose Chakkiath
Final Year BME



Anila Antony
Final Year BME

BYJU'S The Learning App



Gisna K S
Final Year BME

TATA ELXSI



Jumy Jaimy
Final Year BME

FRESENIUS MEDICAL CARE



Anjana Divakaran
Final Year BME



Rithika Rajith
Final Year BME



Greeshma Saira Eapen
Final Year BME



Albin Simon
Final Year BME



Rinta Raju
Final Year BME

Meditix Solutions



Adarsh Wilson
Final Year BME



Anna Roy
Final Year BME



Gisna K S
Final Year BME



Muhammed Shahal V
Final Year BME

tcs TATA CONSULTANCY SERVICES



Anjana Divakaran
Final Year BME



Amal
Final Year BME



Greeshma Saira Eapen
Final Year BME



Annu Maria Jose
Final Year BME



Janvy Joy
Final Year BME



Anargha C P
Final Year BME

SUTHERLAND



Adarsh Wilson
Final Year BME



Albin Simon
Final Year BME



Anna Roy
Final Year BME



Swetha U
Final Year BME



Angel Rose Chakkiath
Final Year BME



Mariya Francis
Final Year BME



Aiswarya Shajan
Final Year BME



Anjali CD
Final Year BME



Jasmine John
Final Year BME



Mariya Mathan
Final Year BME



Sweta Manoj
Final Year BME



Rithika Rajith
Final Year BME

PROJECT ACHIEVEMENTS

"Adaptive Noise Suppression Device"



Team members consisting of **Angel Rose Chakkiath, Amarnath P S, Alfin Joseph, Minsha Zakkariya** under the guidance of **Dr. Yuvaraj V** secured the following honors :

- First prize in summer startup festival at Government Engineering College Thrissur
- Second Prize in Techathon 2022 at FISAT Angamaly
- Third prize in Srishti 2022 at Jyothi engineering College Thrissur
- Represented Sahrdaya at Health Tech Summit of government of kerala
- Participated at National level project expo NAVA 2022 at MACE Kothamangalam
- Finalist at sahrdaya SCI-FEST
- Shortlisted for the final evaluation of idea fest 2022
- Project idea shortlisted for YIP

"Smart Cervical Collar"



Team members are **Alex Abraham, Rithika Rajith, Adorna Lawrence and Amitha M.P** guided by **Mr. Jibin Jose**

- Kerala Startup Mission Idea Grant
- Finalist at Sahrdaya SCI-FEST
- Finalist Summer Startup Festival, GEC
- Finalist Techathon, FISAT
- Project Exhibited in Health Tech Summit Of Govt. Of Kerala

"Deep Neural Network Based System For Early Detection Of Sleep Apnea"



Team members consisting of **Annu Maria Jose, Sandra Benny, Muhammed Zahir and Jisna K.S** under the guidance of **Ms. Sony N.S** secured the following honors :

- KSUM Idea grant worth 1 lakh
- Runner Up Award in Matlab category (Shrishti 2022 held at Saintgits college of Engineering, Kottayam)
- Finalist at Sahrdaya SCI-FEST
- Finalist Summer Startup Festival, GEC Thrissur
- Finalist Techathon, FISAT
- Finalist Srishti 2022, Jyothi Engineering College Thrissur

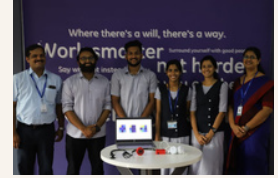
"Wearable Fetal Heart Monitoring System"



Team members are **Mariya Francis, Sreeraag. P. S, Swetha. U** guided by **Mr. Jis Paul**

- Finalist at Sahrdaya SCI-FEST
- Finalist Summer Startup Festival, GEC Thrissur
- Finalist Techathon, FISAT
- Finalist at Ideafest 2022

"3D printed Autosteth"



Team members are **Mariya Mathan, Jiffin Joseph, Greshma Varghese, Sourav Vinay kumar** guided by **Dr. Remya George, Dr. Finto Raphael**

- Second Prize in Techathon 2022 at FISAT Angamaly
- Third prize in National level project expo Hestia 2022 at TKM College of Engineering
- Represented Sahrdaya College of Engineering and Technology, in RESEARCH INNOVATION DEMO DAY, 28 May 2022 at Technology Innovation Zone, Kochi
- Finalist at Sahrdaya SCI-FEST
- Finalist Summer Startup Festival, GEC

"Mirror therapy based hand Rehabilitation"



Team members are **Clinto Martin, Greeshma Saira Eapen, Greeshma K M, Jumy jaimy** guided by **Dr Finto Raphael, Jibin Jose , Dr. Verghese Thomas (Adjunct Faculty-BME)**

- Best project award in Techathon 2022 at FISAT Angamaly
- First Prize in Techathon 2022 at FISAT Angamaly
- First Prize in National level project expo conducted by NIE, Mysore
- Second Prize in summer startup festival at Government Engineering College Thrissur
- Shortlisted for YIP
- Finalist at Sahrdaya SCI-FEST
- Finalist of IDEA FEST 2022

EBSA AT ARTS

FIRST PRIZES



Deepika A.
Recitation - Malayalam



Amal P Gigo
Western Solo



Elias Rajeev
Versification- Malayalam



Greeshma Nadh
Short Story - English



Sanjana Sudheer
Cartoon



Thiruvathira



Nadanpattu



Margamkali



Nostalgia - Male



Oppana



Synchronous Dance - Male

SECOND PRIZES



Deepika A.
Monoact



Greeshma Nadh
Recitation - English



Movie Spoof

THIRD PRIZES



Rashid Ahammed N V
Mappilattu



Swetha Manoj
Mappilattu



Hridhya K
Classical Music
Recitation - Malayalam



Mrudula AK
Short story
Malayalam



Florence Baby
Recitation
English



**Aswathi K B
Albin Albert**
Clay Modeling



Group Song - Eastern



Nostalgia - Female



Group Dance - Male



Vattapattu



Group Song - Western

STUDENTS CORNER



Greeshma Nadh P Gupta
S4 BME

FIRE AND DESIRE

Lives in the past has drowned before her
eyes,
deep in the waters of misery and
sufferings.
Tamed young women,
built to be a mere beautiful dream
in front of the world.
Her hiding behind the fog,
covering every inch of her fierce self,
only for them to tame her more....
to call her names she never wanted
to be called....
But it all lay aside in the dreaded past.
Now when I look at her,
I see the fire in her burning bright,
her desires soaring high.
Like a beacon of courage,
she no more drowns herself,
in the whirls of misery.
Far from being a beautiful dream,
like an old pamphlet,
she goes on like an endless tale,
with hope in her eyes and fire in her soul.
All cause she never cares the remark
of old shackles of the world anymore.

Laxmiroopa P A
S4 BME



Shifa P S
S4 BME



Things to know

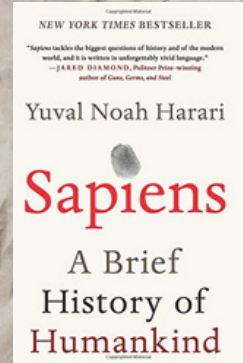
VR & AR



Virtual reality (VR) and Augmented reality (AR) are two technologies that are changing the way we use screens, creating new and exciting interactive experiences. With virtual reality, you could explore an underwater environment. With augmented reality, you could see fish swimming through the world around you.

VR technologies: Google Cardboard, Gear VR.
AR technologies: Microsoft HoloLens, the Magic Leap

Book to Read



Sapiens: A Brief History of Humankind
by Yuval Noah Harari
In Sapiens, Dr Yuval Noah Harari spans the whole of human history, from the very first humans to walk the earth to the radical and sometimes devastating breakthroughs of the Cognitive, Agricultural and Scientific Revolutions. Bold, wide ranging and provocative, Sapiens challenges everything we thought we knew about being human: our thoughts, our actions, our power and our future.



Mrudula AK
S6 BME

TWILIGHT

With a broken heart he leaves her...
And he was afraid, will the world of
seven colours attract her???

While here
she was getting ready to wait...
For the one who was with her in the
loneliness of darkness....

EDITORIAL TEAM

PROF. JIS PAUL | CLINTO MARTIN

DESIGN & LAYOUT

NEVIN T SHINE | SREERAG P S

CONTENT CURATION

ALEENA BIJU ARICATT | GREESHMA NADH

Silience is a biannual news letter published by Dept of Biomedical Engineering in association with its students association EBSA. Silience carries News, events and achievements of Faculty & students of Dept of Biomedical Engineering. Copies of Silience is available in Department website and college library. Copies are also distributed through official online channels.

DEPARTMENT OF BME, SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY,
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