



SILIENCE

Biannual Newsletter from Department of Biomedical Engineering VOLUME 11 / ISSUE 2

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



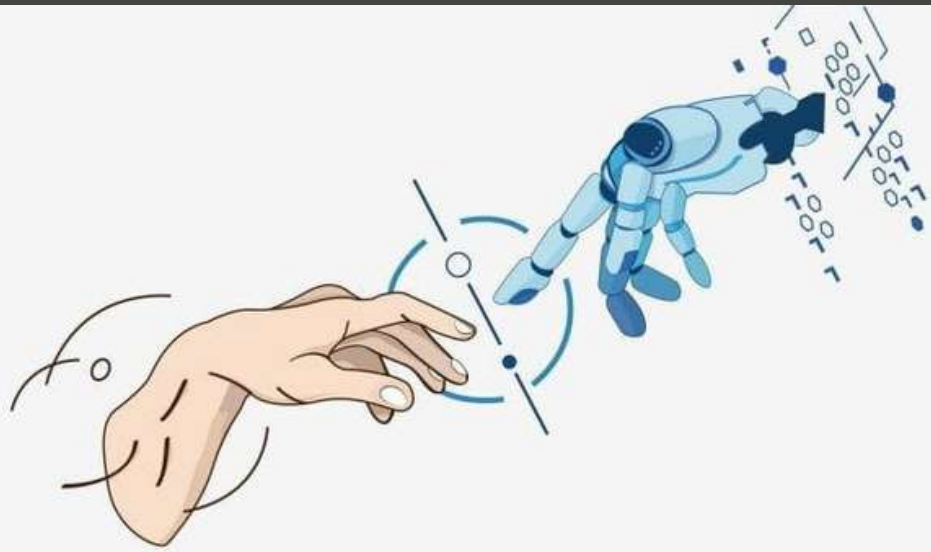
Dear all

As we reflect on the vibrant tapestry of talent and dedication within our department, for the last semester, I am thrilled to extend my heartfelt regards to each student who has contributed to the rich and dynamic landscape of Department of Biomedical Engineering. The Biannual Newsletter of our department SILIENCE truly represent your passion, hard work, and commitment. Throughout the semester, your diverse range of activities, projects, and initiatives have not only added depth to our academic environment but have also fostered a sense of collaboration and innovation. Proudly i would say that each of you has played a crucial role in elevating the spirit of our department department. Congratulations on your achievements, and I eagerly anticipate witnessing the continued growth and success of each student within our esteemed department. I would also like to appreciate the editorial team, under the inspiring leadership of Mr. Jay Krishnan, Faculty member, whose team have come out with a beautiful yet matured content in the publication. As we look forward to the exciting ventures that lie ahead, let us celebrate the remarkable accomplishments and milestones of our students and Faculty members.

Best Wishes

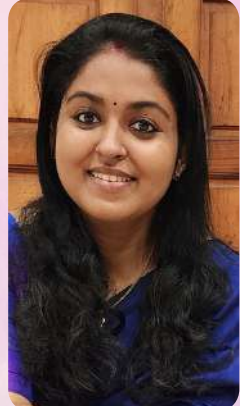
Dr. Jis Paul

Asso. Professor & Head, Dept of BME



FROM FACULTY ADVISOR

Its my pleasure to introduce another of EBSA,The Technical Association of Biomedical Department. The 20th edition of Biannual newsletter SILIENCE exhibiting both passionate and creative ideas of student and faculty as well as venturing through the innovation and drift in the Biomedical domain. It outlines department activities,student and faculty achievements ,placements and glimpse of talents of both students and faculty .I wholeheartedly congratulate and express my gratitude to my students and my colleagues in its making. I hope it be an inspiration to those who flip through these page



Mrs. Lavina Joseph

Asst. Professor, Dept of BME

FROM EBSA SECRETARY

Knowledge is power, but teamwork is the key to success. Together, we can achieve greatness.EBSA takes immense pride in presenting the latest edition of our bi-annual newsletter, 'SILIENCE.' This captivating publication is more than just words on paper; it's a journey into a world of true spirit, knowledge, and intriguing facts that will surely leave us pondering.



Mr. Hewingston Wilfred

EBSA Secretary, Final year BME

STUDENTS ACHIEVEMENTS



A project team consisting of Angith S Menon, Anne Staicy Philip, Albin Sunil Skaria and Hariprasad C K and guided by Dr. Reshma Jose from the Department of Biomedical Engineering was the winner of the idea pitching competition for the idea "Intelligent fall detection Vest integrated with Air Bag System for Elderly People" conducted by IEEE EMBS KC. They received a funding of Rs 10,000.



The project team consisting of Laxmi roopa, Joel and Sreerag from S6 BM guided by Mr. Jayakrishnan S titled Knee Assist Exobrace was awarded second place in the INSA Sponsored National Conference - AIDSHC -24.



Project titled "Pediatric Laryngoscope using Video Processing" won first prize under the track: Health Care and Innovation at SRISHTI 2024 on 26th and 27th February 2024 at SAINTGITS College of Engineering. The project is guided by Dr. Reshma Jose.

STUDENTS ACHIEVEMENTS AND PLACEMENTS

Georgy Lyj, Mr. Ashwin K Thomas, Ms. Shaheeda E.B and Mr. Aswin Joy participated in an EV Hack- a 24 hour EV Simulation based Hackathon conducted by the Department of Electrical and Electronics Engineering in association with Techletics'24 at Christ College of Engineering, Irinjalakuda on 28th and 29th February 2024.



30. Project titled "Pediatric Laryngoscope using Video Processing" guided by Dr.Reshma Jose won a silver award at KSCSTE TECHFEST 2024 conducted at IIT, Palakkad on 2nd and 3rd March. The members are Keerthana Krishnakumar, Sharil Babu, Soorja Sunil and Mohammed Yaseen Jawad..

STUDENTS ACHIEVEMENTS AND PLACEMENTS

Sixty percent of aspirants from the B.Tech Biomedical Engineering program at Sahridaya College of Engineering and Technology have secured internships in core biomedical companies, earning stipends ranging from 10K to 25K. This initiative promotes a culture of 'earn while you learn' and enriches real-world experience.



The Department of Biomedical Engineering won the trophy for Sports, Sports and Games overall and Best association awarded during the College Day. The following students won various awards and endowments:

- Ms. Nice George- Diamond Ring Out Sparkle Award, Mr. and Mrs. P.D Jose Endowment, Sridha Menon Memorial Endowment and Dr. Palatty Jacob Jose Endowment
- Ms. Safa- Sridha Menon Memorial Award for Best NSS volunteer
- Ms. Kripa David- Biomedical Evangelist Award
- Ms.Eva Joy- Individual Champion in Sports.



The project Smart bra for early detection of breast cancer guided by Ms. Minu Davis and members Sahal, Shamseena, Midhun and Fathima have been shortlisted for TiE U Kerala Chapter Competitions 2023-24.

FACULTY ACHIEVEMENTS

- **Dr. Reshma Jose was invited to deliver an expert talk on the theme of Assistive Technologies and Wearables in Young Innovators Programme 6.0 on 17th January 2024.**



Ms. Sony N.S is certified as a facilitator of AI for future Workforce Program in India on April 18th, 2024.

The Department of Biomedical Engineering signed an MoU with Meditix Solutions on January 22nd 2024.

The faculty from the department of Biomedical Engineering were selected as mentors within the domain of Assistive Technologies as part of the Young Innovation Programme (YIP) 4.0 for providing guidance on technical and domain-specific aspects of the idea.



Ms. Minu C Davis successfully completed the NPTEL Online Certification course on Introduction to Soft Computing with a score of 77%.

Ms. Jayalakshmi P K published a paper titled "An Ample Review of Various Deep Learning Skills for Identifying the Stages of Sleep" in the International National Conference on Biomedical Engineering Science and Technology, PP 47-65.



DEPARTMENT /ASSOCIATION ACTIVITIES

The Digital University of Kerala conducted a talk for S8 students on Placements and Higher Studies.



The Department of Biomedical Engineering conducted an alumni meet HOMECOMING 2024 on 17th February 2024 wherein a total number of 22 alumnis attended.



The final year students went for a study tour from 12th to 17th February 2024 wherein a total number of 59 students, 2 faculty members and 2 parents accompanied to Mangalore, Gokarna and Goa.



ADDONS

The Department conducted a session for the familiarization of the 2 channel and 16 channel Biopac system on 23/01/2024 for the faculty members.



The Department conducted a one day FDP on Matlab with the help of CoreEL Technologies - Official partner of Matlab Inc. on 16/01/2024 for the faculty members.

The Department conducted a session by Fluke on Medical Equipment Safety Analysers on 02/02/2024 for the faculty members.



The Department of Biomedical Engineering conducted training sessions for S6 students from Feb 5th to 9th and for S8 students from Jan 29th to Feb 2nd by Agappe Diagnostics Ltd.

The Department of Biomedical Engineering conducted a session On Technical paper Writing by Ms. Niya R.M, Research Scholar, Department of Biotechnology, SCET on 6/2/2024 for S6 students.



ADDONS

AD Instruments conducted a training program to faculty of Biomedical Engineering Department on 6/2/2024 on Multichannel Signal Acquisition System.



12 students from final year Biomedical Engineering visited Agappe Diagnostics Limited as part of the training program accompanied by the faculty in-charge of training Ms. Jayalakshmi P.S.



WORKSHOPS & TRAININGS ATTENDED BY FACULTIES

- **Mr. Jibin Jose and Dr. Finto Raphel attended an Online One Week Short Term Course on Cutting Edge Advancements in Biomedical Engineering (CABE-2024): Lab to Industry conducted by the Department of Instrumentation and Control Engineering, Dr. B.R Ambedkar National Institute of Technology Jalandhar, Punjab from January 8-12, 2024**



Mr. Jibin Jose was invited as a jury member of STOGOFEST and TACHYON 360 Child Online Protection Awards 2024 held at Sarabhai Institute of Science & Technology, Trivandrum on 12th and 13th Feb 2024.

Ms. Sony N.S participated in a five days training program on Deep Learning Theory and Practice from 29/1/2024 to 03/2/2024 held at GEC, Thrissur..



Mr. Jayakrishnan attended a Five Days Online FDP on "AI Based Wearable Biosensing Devices for Healthcare Analytics" organized by the Department of Biomedical Engineering, Sri Shanmugha College of Engineering and Technology from 8/1/2024 to 12/1/2024.



WORKSHOPS & TRAININGS ATTENDED BY FACULTIES

Ms. Reshma Jose attended the Women Start Up Summit 2023 organized by Kerala StartUp Mission at Kerala Technology Innovation Zone, Kalamassery on 29th September and presented the AAC Device developed as part of a project done in collaboration with NISH and APJ Abdul Kalam Technological University.



Mr. Jibin Jose participated in the Huddle Global organized by Kerala StartUp Mission at Trivandrum from November 16th to 18th 2023.

Ms. Lavina Joseph, Ms. Minu C Davis, Ms. Supriya Mary Sunil, Ms. Artahy M and Ms Jayalakshmi P K presented a paper titled

“Communication aid for deaf blind” in the ICACCES’24 (International Conference on Advanced Computing, Communication and Electrical system) held on 22-23rd February 2024 at KMEA Engineering College, Kerala.



Ms. Jayalakshmi P K, Ms. Lavina Joseph, Ms. Minu C Davis participated in Five-day online FDP on “RECENT TRENDS IN BIOMEDICAL APPLICATIONS USING AI”, organized by Department of Biomedical Engineering, in association with Centre for Faculty Development between 29-01-2024 to 02-02-2024 at St. Peters Institute of Higher Education and Research, Avadi, Chennai.



ARTS DAY

GROUP EVENTS	PRIZE	MEMBERS
THIRUVATHIRA	THIRD	LIYANA AKBAR, JEWEL , HRIDHYA K, MEKHA, ALEENA, ESTINA, KRISHNA, ELVEENA, LAYA, ARGYA
GRP.DANCE MALE	SECOND	ABIJITH K V, SREERAG P, AMAL GIJO, RINU LONAPPAN, VISHNU PRAJIL, MIDHUN SUBASH, JITHU AVIRA RAJU, JINOY, SHARON, KARTHIK
GRP.DANCE FEMALE	SECOND	LIYANA AKBAR, CRESY , Anushka, DEVENDU, JENIT, ESTINA, NIYA, AYANA, SANJANA, SHILPA
MARGAMKALI	SECOND	AYANA, ABHIRAMI, JENT, LIYA, ANUSHKA SUMESH, MALAVIKA CHANDRAN, MARTINA THOMAS
MOVIE SPOOF	THIRD	ABHISHEK A, MOHAMED YASEEN JAWAD, SREERAG P, AMAL GIJO, VISHNU PRAJIL, SOORAJ SUNIL, ALBIN SUNIL SCARIA, JITHU AVIRA RAJU

ARTS DAY

GROUP EVENTS	PRIZE	MEMBERS
GRP.SONG EASTERN	SECOND	ATHUL, KRISHNA SUGUNAN, SANJANA, LAXMIROOPA, VISHNU PRAJIL, ARGYA, SIVAKRISHNA , AMAL GIJO
GRP.SONG WESTERN	THIRD	SANJANA, FIONA, AMAL GIJO, ANDREA SHINE, MALAVIKA CHANRAN, JOHN ANTONY, LAXMIROOPA, SHAHEEDA, SIVARANJINI
VATTAPPATTU	FIRST	RENISH, SHAHABAS, HAREESH, RIZWIN, SHUHAIB, SANJAY, BASIM, ABHINAV, NAIZAM, MOHAMED SALEEH
DUFFMUTTU	FIRST	LOUIS, ATHUL, RENISH, ALBIN, EBIN, SHUHAIB, BASIM, SHARON, DEVAN, NIHAL
OPPANA	FIRST	SAFA ABDUL SALAM, SHAMSEENA P N, RABEEBA, ABHIRAMI, MEHNAZ, AYSHA SALIM, LIYANA, ELVEENA, HIDA, FIDHA

ARTS DAY

GROUP EVENTS	PRIZE	MEMBERS
SYNCHRONOUS MALE	SECOND	ALBIN K SHAJAN, LOUIS CECIL, RICHARDSON SABU P, ANTONIO FERNANDEZ J
NOSTALGIA FEMALE	FIRST	ABHIRAMI, MEKHA, snisha, FIONA, JEWELL, JULIA, LAKSHMI, MARTEENA, HRIDHYA, KAVYA
NADANPATTU	THIRD	HRIDHYA K, KRISHNA SUGUNAN, ASHWIN K THOMAS, GEORGY LYJU, FEBINT O, VISHNU A J, AMALDEEP E P

ARTS DAY

INDIVIDUAL EVENTS	POSITIONS	STUDENT
EASTERN INSTRUMENTAL MUSIC	FIRST	ASWIN SINGH KR
SONG WITH KAROKE	SECOND	KRISHNA
KUCHIPUDI	THIRD	ANUSHKA SUMESH
LIGHT MUSIC FEMALE	SECOND THIRD	KRISHNA MALAVIKA CHANDRAN
KEYBOARD	SECOND	JOEL VARGHESE
ADAPTIVE TUNE	FIRST THIRD	JENIT RICHARDSON SABU P
MAPPILAPPATTU	THIRD	MOHAMMED SALEH AM

SPORTS DAY

EVENT	PRIZE	STUDENT
100 Mtr RACE	THIRD	ASHIN JIBOO
200 Mtr RACE (BOYS)	SECOND THIRD	SHARON KEVIN
200Mtr RACE (GIRLS)	FIRST	EVA
1500Mtr RACE (BOYS)	SECOND	KEVIN
1500Mtr RACE(GIRLS)	SECOND	MARTEENA
SHOTPUT	SECOND	GEORGY
JAVELIN THROW	SECOND THIRD	ANEETA GRACE ALFERI C SHAJU
LONG JUMP	SECOND THIRD	ASHIN SREERAG

SPORTS DAY

EVENT	PRIZE	STUDENT
LONG JUMP(GIRLS)	FIRST SECOND	EVA GOPIKA
HIGHJUMP	FIRST	EVA
TRIPPLE JUMP(BOYS)	FIRST SECOND	ASHIN ALBIN
TRIPPLE JUMP(GIRLS)	FIRST	GOPIKA
800Mtr RACE	FIRST	SHARON

SPORTS DAY

EVENT	PRIZE	STUDENT
TABLE TENNIS	THIRD	DWASHIL J
BADMINTON(GIRLS)	FIRST	JENIT & AYANA
BADMINTON(BOYS)	FIRST	SREERAG, EDWIN & SANJAY
BASKETBALL(GIRLS)	SECOND	EVA &TEAM
BASKETBALL(BOYS)	THIRD	JITHU & TEAM
CRICKET	FIRST	SREERAG & TEAM
THROWBALL	FIRST	JENIT & TEAM
FOOTBALL	FIRST	ABHIJITH & TEAM

BME FAMILY



EDITORIAL TEAM



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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 faculties & students of Dept. of Biomedical Engineering. Copies of Silience is available in department website and college library which are also distributed through official online channels.

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