



MEDFLOWER  
ADHIYAMAAN COLLEGE OF ENGINEERING  
(AUTONOMOUS)  
HOSUR, TAMILNADU  
DEPARTMENT OF BIOMEDICAL ENGINEERING  
BI ANNUAL NEWS LETTER 2021-2022



**VOLUME:03**

**ISSUE:02**



# NEWSLETTER

(For internal circulation only)



## PRINCIPAL'S MESSAGE

India is the world's third-largest economic power, with an 8% growth rate. Indian entrepreneurs lead globally, and Indians are among the world's richest. India's knowledge power is sought for outsourcing, becoming a hub for R&D and innovation. At ACE, we nurture leadership and innovation, encouraging positive attitudes and caring for humanity. Empower yourself with knowledge, serve and excel. Have a happy and rewarding student life at ACE, enhancing our institution's pride.



## HOD'S MESSAGE



The Department of Biomedical Engineering was established in 2003. Biomedical Engineering applies engineering principles and problem-solving techniques to biology and medicine. This is evident throughout healthcare, from diagnosis and analysis to treatment and recovery. It has entered the public domain through the sudden increase in implantable medical devices, such as pacemakers and artificial hips, and more futuristic technologies like Stem Cell Engineering and 3-D Printing of Biological Organs.



## **VISION**

To produce competent and creative Biomedical Engineers who anticipate change, communicate and work with others effectively in a globally connected society.

## **MISSION**

To pursue excellence in Biomedical Engineering by integrating engineering and medicine through education, research and innovation.

To facilitate the students by introducing technologies for uplifting the society with global standards.

To nurture students' skill and leadership qualities by inculcating ethical values.

## **PEOs**

Our graduates will excel in healthcare sectors and/or higher education with the instilling profound knowledge in mathematical, scientific and engineering concepts.

Our graduates will be able to analyze healthcare challenges, design and development of diagnostic, therapeutic strategies with global standards, economically feasible for the welfare of society.

Our graduates will emerge with professionalism, ethical and social responsibilities, communication skills, team spirit and leadership as a holistic personality with life long learning attitude.

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# EVENTS ORGANISED

## Brain Awareness Week

The Institution of Engineers (India), Biomedical wing, organized Technical and Non-Technical events for the students on behalf of “THE BRAIN AWARENESS WEEK” celebration on 17th March, 2022.



Dr. T.S. Udhaya Suriya, Head of the Department, Department of Biomedical Engineering welcomed the Chief guest, all the dignitaries addressed the gathering. Dr.J.Arivudainambi, Institutional staff-advisor, IEI-HLC, Adhiyamaan College of Engineering honoured Dr. Keni Ravish Rajiv, MBBS, M.D.

The chief guest Dr. Keni Ravish Rajiv, MBBS, M.D, D.M delivered lecture on the theme to the eve of celebrating the Brain Awareness Week and he gave the presentation on the topics which included Lobes of the brain, Anatomy of brain, The nervous system, The cell structure of the brain, The meninges and its types, Cerebrospinal fluid, Brain components and its functions, Cerebellum, Cerebrum, Glands, the brain disorders like brain injuries, brain tumors and mental diagnosis.



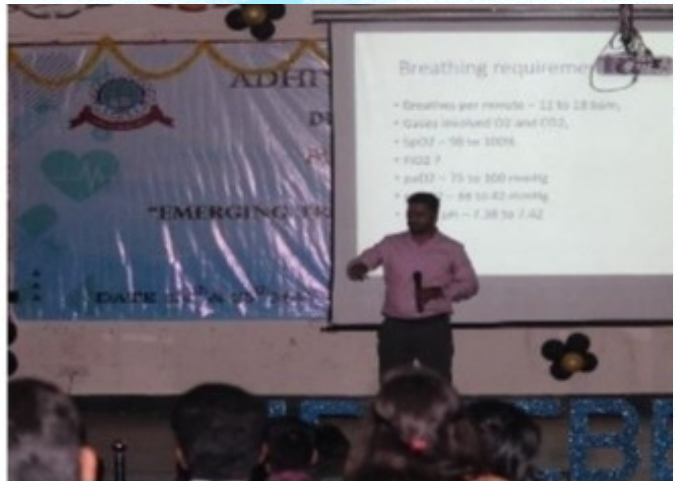
# Conference



A two-day National Conference on “Emerging Trends and Challenges in Biomedical Engineering” was organized by Department of Biomedical Engineering, Adhiyamaan College of Engineering Hosur in association with Biomedical Engineering Society of India during 24th and 25th May 2022. In the inaugural session, Mr.A.LAKSHMI NARAYANAN, Examiner of Patent and Designs officer (Group ‘A’ Gazette), Intellectual property officer, Govt of India. During his speech he clearly listed out the important aspects in the field of Biomedical Engineering and other sub fields further he spoke about patent filing of projects and its need. Dr.G. RANGANATH, Principal, Adhiyamaan College of Engineering presided over the function. Dr. T. S. Udhaya Suriya HoD, Department of Biomedical Engineering, welcomed the gathering and gave the overview about the program. During the event Students were given the opportunity to present their papers.

In the first day, Mr. HARIRAMAN JEYAPRAKASH Territory Manager, Fisher & Paykel Healthcare. He gave a presentation about ventilator and its usage and also, he clearly specified the use of different types of machineries in health sector.





In the second day Dr. B. BALASUBRAMANIAN Professor & Head of the Department of Biomedical Engineering, Excel Engineering College, Vice President BMESI was the Resource Person he gave a well-defined lecture about the past and the future scope of medical engineering and also, he showed us the relationship between intelligence and augmentation in healthcare domain. There were 214 participants benefited through this conference. Journal proceedings containing the papers of students was released in the conference.



# STUDENTS ACHIEVEMENTS

- Our students—Sudha, Gomathi, Harani, Balasuriyan, Praveen Kumar, Shyam Ganesh, Srivarthan, Muhesh Kumar and Venkadeshaperumal U participated in the project exhibition at the 8th National Level Technical Project Exhibition & Competition at Saintgits College of Engineering (Autonomous), Kottayam, on April 25 and 26, 2022.

- **JANANI PRIYA R P**

Won 1st place on paper presentation on Universal Health Coverage at Adhiyamaan College of Engineering, Hosur.

- **SIVASOMNATH G**

Won 2nd place on paper presentation at Kongunadu College of Engineering, Coimbatore.

- **VIJAY SARATHY KS**

Won 2nd place on paper presentation at Kongunadu College of Engineering, Coimbatore.

- **VIDHYA M**

Won 1st place on paper presentation on Universal Health Coverage at Adhiyamaan College of Engineering, Hosur.

Won 2nd place on paper presentation at Kongunadu College of Engineering, Coimbatore.

## QUALIFYING EXAM

- Rasika B has attained a significant achievement by successfully clearing the GMAT exam. Congratulations to her on this impressive accomplishment!
- Mohammed Fawaz has achieved success by clearing the TANCET exam. Congratulations to him on this noteworthy accomplishment!



# PUBLICATIONS

1. Dr. Bagyalakshmi N, Akashragav K, Akhil P, Rajesh A, Prakash N authored a paper titled "Development of Intelligent Orthopaedic Vest" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9487.pdf>)
2. Mr. P. Ganesh Babu, Archana K, Bhuvaneswari N, Arthi M, Megha SR authored a paper titled "IoT Based Real-Time Beds and Oxygen Cylinder Availability Checks in Hospital for Covid-19 Affected Patients" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9488.pdf>)
3. C. Sathish Kumar, B. Aruna, V. Gayathri, R. Gowri, V. Madhumitha authored a paper titled "Smart Wearable Device for Blood Leak Detection Using Optical Sensor in Hemodialysis Therapy" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9489.pdf>).
4. Selva Sherin T, Aswathy V, Madhura R S, Maha Lakshmi M authored a paper titled "Smart Pill Box for Medicine Monitoring and Ordering System Using IoT" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9490.pdf>)



5. Bagyalakshmi N, Dhinesh Kumar G, Sundara Abishek V, Tamilselvan S, Gurumaninathan A authored a paper titled "An IoT Solution for Surgical Patient Monitoring of Drugs in Human Serum Based on An Integrated Fluidic Bioelectronics System" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9493.pdf>)
6. C. Sathish Kumar, Dhivya G, Rasika B, Ramya M, Sowndarya S authored a paper titled "IoT Based Bearable Device for Glucose Detection System Using GSR Sensor and Automatic Alert System" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9494.pdf>)
7. Selva Sherin T, Isika Adak, Rijitha P, Sneka R authored a paper titled "Design and Implementation of Wireless Blood Bank Management System Using Android Application" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9495.pdf>)
8. Bagyalakshmi N, Janakiraman V, Sam S, Subash A B, Yogavalli Prakash M authored a paper titled "Developing Hydration Reminding Smart Bottle: IoT Experimentation and Prevention from Chronic Dehydration" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9496.pdf>)



9. T. S. Udhaya Suriya, S. Kaniha, V.A. Yagnapreetha, C. Pooja, C. Sindhu authored a paper titled "Portable Oxygen Concentrator Delivery Using Hybrid Power Solar Energy and Pressure" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9497.pdf>)

10. Dr. T. S. Udhaya Suriya, Dhanush Kumar K, Mohamed Rilwanali A A, Mohamed Sheik Sameer K H, Pradeep M authored a paper titled "Android Application Based Virtual Talk for Deaf, Mute and Normal Humans" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9492.pdf>)

11. Dr. Bagyalakshmi N, D. Praveenkumar, R. Shyam Ganesh, S. Srivarthan authored a paper titled "Blood Infusion Warmer Using Wi-Fi Indication" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9499.pdf>)

12. T. Selva Sherin, S. Gomathi, K. Elakiya, M. Magila authored a paper titled "Smart Log Automated Nutrition Monitoring System - Based on IoT" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9500.pdf>)



13. T. Selva Sherin, T., Raguraman.S, Sowmiya.P, Sudha.M authored a paper titled "An IoT Enabled Early Warning & Prediction of Foot Ulcer" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9501.pdf>)

14. T. Selva Sherin, C. Harani, M. Mamatha, L. Padmini authored a paper titled "Design and Implementation of Web Camera Based Online Surgical Robot" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9502.pdf>)

15. C. Sathish Kumar, V. Ajay, S. Hari, S. Gopalrathinam authored a paper titled "Security System Using Near Field Communication Technique to Prevent Newborn Kidnapping / Swapping in Hospitals" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9505.pdf>)

16. Bagyalakshmi. N, Soumya. V, Gowri Shankar. G, Vasanth Kumar. S authored a paper titled "Design and Implementation of Advanced System of an Insulin and Glucagon Pump" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9506.pdf>)



17. Bagyalakshmi. N, Aakash. K, Yuvasri. M, B. Vivek authored a paper titled "Multi-Patient Medication Register with RTC and Trend" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9507.pdf>)

18. T. Selva Sherin, Lydia M, Karunya M, Sivasakthi authored a paper titled "Design and Implementation of Smart Device to Help People with Alzheimer's disease" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9508.pdf>)

19. Dr.N. Bagyalakshmi, V. Ajay, S. Hari, S. Gopalrathinam authored a paper titled "Design and Implementation of Automatic Medicine Vending Machine Based on Android App" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9509.pdf>)

20. Dr. T. S. Udhaya Suriya, V. Saranya, J. Ashwini, P. Mukesh authored a paper titled "Self-Powered Wearable Suit for Sensing Vital Parameters and Location Tracking of Soldier" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper](<https://ijsrst.com/paper/9510.pdf>)



21. C. Sathish Kumar, T. Abirami, V. Praveena, J. Cyril authored a paper titled "Nerve and Muscle Stimulation with Wireless Operator" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9511.pdf>)

22. P. Ganesh Babu, Durairaj A, Niranjana J, Vemala M authored a paper titled "Monitoring Module and Phototherapy Embedded in Incubators" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9512.pdf>)

23. Sathish Kumar C, Anbarasi. M, Janani Priya R. P, Kavitha authored a paper titled "Design and Analysis of Chronic Wound Infection Detection Using Computer Vision (CV)" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9513.pdf>)

24. Bagyalakshmi N, Sivasomnath G, Vidhya M, Vijay Sarathy K S authored a paper titled "Movement Assisting Device for Stroke-Affected and Spinal Cord Injured Patients" in the International Journal of Scientific Research in Science and Technology, Volume 9, Issue 10, May 2022. Print ISSN: 2395-6011 / Online ISSN: 2395-602X. [Link to paper] (<https://ijsrst.com/paper/9514.pdf>)



## ACEDAMIC TOPPERS

### Final Year



MADURA R S(90%)



AKASHRAGAV K(88%)



ASWATHY V(88%)

### Third Year



SARANYA V(89%)



SOUMYA V(88%)



SOUMYA P(87%)

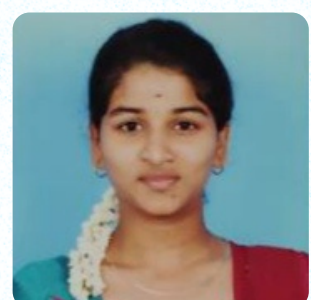
### Second Year



SNEHA M(91%)



VIDHYA M(90%)

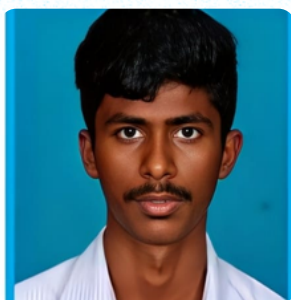


VISHALI G(89%)

### First Year



KERSHINI R(84%)



JOSEPH AMALRAJ L(80%)



SHAKTHI PRIYA B(79%)



# Placements



- AKHIL.P
- KANIHA.S



**HealthWatch**

- AKASHRAGAV.K
- ARCHANA.K
- BHUVANESHWARI.N
- RAJESH.A
- TAMILSELVAN.S



- ARTHI.M



- ASWATHY.Y
- MEGHA.S.R
- MOHAMEDRILWANALI.A



- DINESH KUMAR.G
- ISIKA ADA.K
- JANAKIRAMAN.V
- KARTHICK.B
- MADHURA.R.S
- SUBASH.A.B
- SUNDARABISHEK.V
- YOGAVALLI.P.M
- MAHALAKSHMI.M



- JAYASURYA.S



- AKASH.S
- DHANUSH KUMAR.K
- MOHAMEDSHEIKSAMEER.K
- PRADEEP.M



- ARUNA.B
- DHIVYA.G
- GOWRI.R
- SAM.S
- SARA VANAN.P
- SNEKA.R



- GAYATHIIRI.V
- POOJA.A
- RAMYA.M
- YAGNAPREETHA.V.A



- MOHAMMED FAWAF S



- HARIHARAN.C.K
- MOHAMED FAWAF.S



# SALIENT FEATURES

- Well-Equipped Laboratories with AICTE Funding.
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- Excellent record of Placement and Higher studies
- Industry attachment Program and Internship.
- Hospital Training has been carried out in Academics.
- Workshops/Seminars by Industry Experts.
- Financial support for Students Innovation.

## EDITORS:

Dr.N.Bagyalakshmi, Associate Professor

Mr.P.Ganesh Babu, Assistant Professor