



MEDFLOWER

Department of Biomedical Engineering
Adhiyamaan College of Engineering, (Autonomous)
Hosur, Tamilnadu



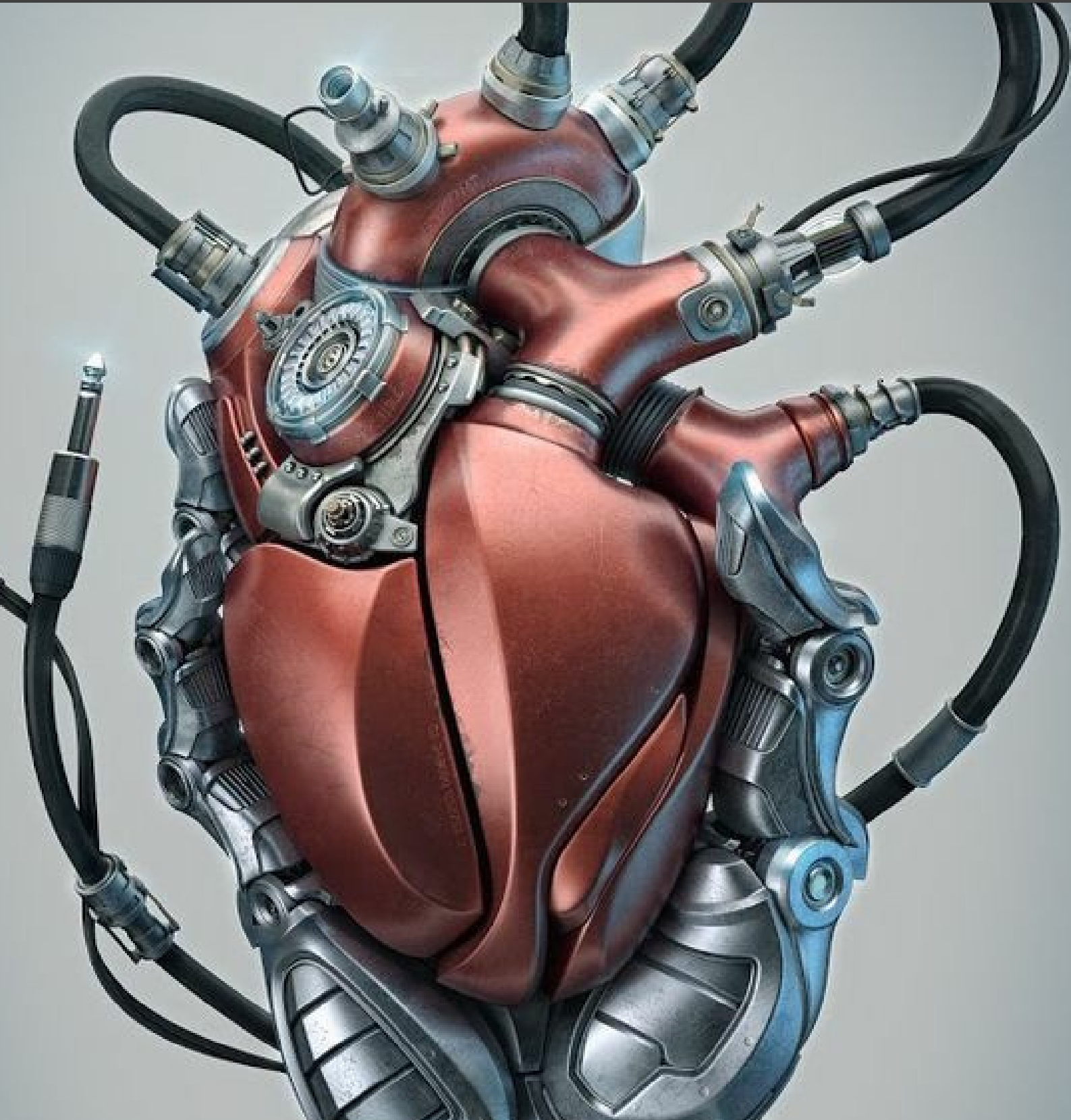
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NEWSLETTER

(For Internal Circulation Only)



PRINCIPAL'S MESSAGE



It gives me immense pleasure to note that the Department of Biomedical Engineering is bringing its First issue of Biannual NewsLetter for the year 2020-2021. The department has conducted various seminars for the benefit of the students focusing on the exponents in pursuit of technological advancement to keep awareness on the growing Biomedical Engineering Field.



HOD'S MESSAGE

I feel very happy to convey that the Department of Biomedical Engineering has focused its activities for its growth as well as practical exposure to students. The Department is unique like a prism reflecting the manifold shades of learning and co-curricular activities towards its growth and exposure.



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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BOARD OF STUDIES

The Department has conducted 23rd Board of Studies meeting on 17th October 2020 at 11.00 am (Online mode).

1. Dr. T.S. Udhaya Suriya, Chairman, BOS/ Biomedical Engineering.
2. Dr. V. P. Krishnammal, Member, BOS/ Biomedical Engineering.
3. Dr. N.Bagyalakshmi, Member, BOS/ Biomedical Engineering.
4. Prof.P.Ganesh Babu, Member, BOS/ Biomedical Engineering.
5. Prof.C.Sathish Kumar, Member, BOS/ Biomedical Engineering.
6. Dr.B.Padmapriya, Member, University Nominee.
7. Dr.A.Kavitha, Member, Academic Council Nominee.
8. Dr.N.Sriraam, Member, Academic Council Nominee.
9. Mr. Rodda Koteeswara, Member, Industrial Expert.
10. Mr. J. Hariraman, Member, Alumni Representative.
11. Dr.S.Sumathi, HOD/ECE/ACE, Inter Disciplinary Expert.
12. Dr.N.G.Ramesh Babu, HOD/Bio Tech/ACE.

EVENTS ORGANISED

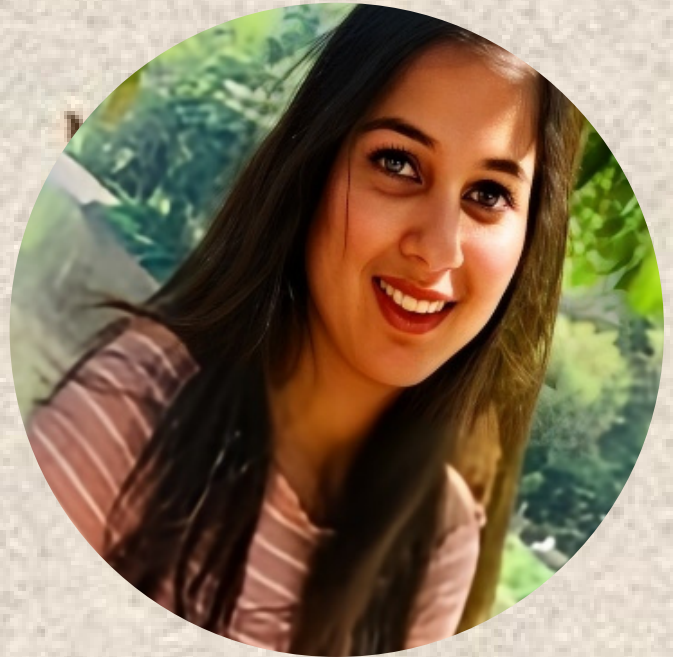


- The Department organized an Online Webinar on Medical Oxygen Concentrator, the resource person was **Mr. Ayyappadas M, Founder & Director, Harvey Biomedical, Bangalore** on **13.06.2020**.
- As an outcome of the webinar, the students gained intensive knowledge on Oxygen Concentrator which is a reliable and accessible source of oxygen.

- The Department arranged an Online Webinar on Point of Care Monitoring System for Measuring Blood Oxygen Saturation in Human Skull Using NIRS by **Mr. Pradeep Kumar Sonker, Design Engineer, Bengaluru. Bio Innovative Centre, Bengaluru** on **11.07.2020**.
- The resource person discussed on '**Oxygen saturation in terms of monitoring patients**' respiratory health, explaining the importance of maintaining optimal levels for overall well-being.



- The Department conducted an Online Webinar on Comparative study between VR & IVD using Neural Correlate for a classic battlefield scenario by Ms. Pinanshu, Project Associate in IIT Mandi, Bengaluru. Bio Innovative Centre, Bengaluru on **18.07.2020**.
- **Key takeaway from the webinar:**The comparison of Virtual Reality (VR) and In-Vehicle Displays (IVD) by discussing their neural correlates, focusing on how each technology engages and affects the brain. VR stimulates various brain regions, including those responsible for spatial navigation and sensory processing, while IVD may impact attention, visual processing, and decision-making areas.



- An online webinar was conducted on **July 25, 2020** for first-year students to motivate them. The webinar titled "**Bridge the Gap,**" aimed at addressing the shyness often experienced by students, transitioning from school to college and welcoming them to the new academic environment. The webinar provided valuable insights into college studies and the career paths ahead. **Dr. S. Siva Subramanian** served as the host of the event, guiding students to navigate their academic journey effectively.

VALUE ADDED COURSE

The Department of Bio Medical Engineering Conducted value added course on **Certified Clinical Research Professional** on **5th October to 19th November 2020**.

OBJECTIVES

This course enabled the students to evaluate a potential treatment and its effects on human beings and to handle and calibrate the medical equipment.

COURSE OUTCOMES

On completion of this course the students will be able to understand the treatment procedure for various ailments, handling of Biomedical equipments and to evaluate clinical data pertaining to a medical device.

Modules covered:

- Module 1 : Human Anatomy and Physiology
- Module 2 : Dental Equipment
- Module 3 : Cardiac Assist Devices
- Module 4 : Physiotherapy
- Module 5 : Neurology
- Module 6 : Maxillo facial Augmentation
- Module 7 : Haemodialysis
- Module 8 : Cutting Instruments
- Module 9 : Paediatrics

PUBLICATIONS

- **Dr.N.Bagyalakshmi**, published a paper titled "BLDC motor based on CUK Converter by utilizing Fuzzy Controller" In **International Journal of Advanced Science and Technology, 2020.**

ACHIEVEMENTS

SHYAM GANESH R Won 1st place in Plagiarism in Math 2[∞] & beyond at **KG College of Arts and Science, Coimbatore.**

STUDENTS PARTICIPATION

- **AKASH K**, Participated in paper presentation at the 3rd National level Technical Symposium on 8th & 9th August,2020 at **Kalasalingam Academy of Research and Education, Krishnankovil.**
- **ASHWINI J**, participated in paper presentation at the 3rd National level Technical Symposium on 8th & 9th August,2020 at **Kalasalingam Academy of Research and Education, Krishnan Kovil.**
- **SHYAM GANESH R**, participated in paper presentation at the International Conference on Virus Influenced Disaster (iCOVID) on 7th & 8th September 2020 at **Park College of Engineering and Technology, Coimbatore.**

- **PRAVEEN KUMAR D**, participated in Three Day Workshop on Simulation of Electrical Circuits using MATLAB on 22nd-24th October 2020 at **Sri RamaKrishna Engineering College, Coimbatore**.
- **MAHALAKSHMI M**, participated in Three Day Workshop on Simulation of Electrical Circuits using MATLAB on 22nd-24th October 2020 at **Sri RamaKrishna Engineering College, Coimbatore**.
- **MADHURA S**, participated in Three Day Workshop on Simulation of Electrical Circuits using MATLAB on 22nd-24th October 2020 at **Sri Ramakrishna Engineering College, Coimbatore**.

FUNDED PROJECT

- **Dr.T.S.Udhaya Suriya** was granted funded project from **AICTE** for the Modernization of Bio Medical Instrumentation Laboratory of **Rs.10,75,777**.

ACADEMIC TOPPERS

VII-Semester



Vedhavalli K
9.48 GPA



Sandhiya S
9.47 GPA



Shoniya Kavi S
9.38 GPA

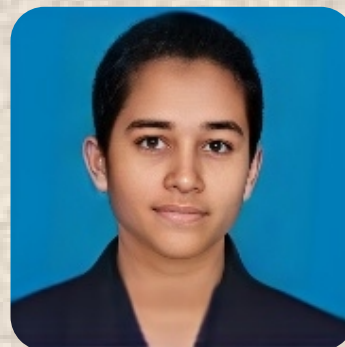
V-Semester



Mohammed Fawaz S
9.71 GPA



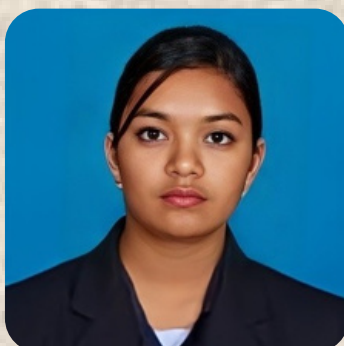
Akash S
9.57 GPA



Aswathy V
9.57 GPA



Dhanush Kumar K
9.57 GPA



Isika Adak
9.57 GPA



Kaniha S
9.57 GPA



Pooja C
9.57 GPA



Madura R S
9.52 GPA

III-Semester



Soumya P
9.1 GPA



Saranya V
9.03 GPA



Raguraman S
9.03 GPA



Soumya V
9.02 GPA

I-Semester



Janani Priya R.P
9.39 GPA



Sneha M
9.33 GPA



Vidhya M
9.28 GPA



Kavitha S
9.28 GPA

SALIENT FEATURES

- Well-Equipped Laboratories with AICTE Funding.
- Experienced Faculties.
- Outcome Based Education (OBE) is Implemented.
- MoUs with renowned Industries and Hospitals .
- Practical Oriented Teaching and Learning.
- Training for Placement and Higher studies.
- 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