

# **Association Report**

## **EBSA**

### **2020-2021**

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**Dept of Biomedical Engineering**  
**Sahrdaya College of Engineering & Technology, Thrissur**

## GENERAL ACTIVITIES

1. The Biomedical Department conducted a career guidance talk by Mr. David Hobbs, Senior Lecturer, College of Science and Engineering, Flinders University, Australia on 13th August 2020.



The poster is divided into a blue left section and a yellow right section. The blue section contains text about the event, including the date and time. The yellow section features a photo of students and the AECC Global logo.

**Flinders UNIVERSITY** | **SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Thrissur - India

**AECC GLOBAL**

**AECC Global India in collaboration with Sahrdaya College of Engineering & Technology, Thrissur, invites you for a guest lecture by Flinders University, Australia**

**13th August, 2020**  
**11:00am - 12:00pm IST**

**Speaker - Dr. David Hobbs,**  
Senior Lecturer College of Science and Engineering, Flinders University

**Topic - 'Design and Biomedical Engineering – improving lives through technology'**

[www.aeccglobal.in](http://www.aeccglobal.in)

2. EBSA & BMESI in association with Medtronic: World's largest Medical Device Company conducted a session on "Indomitable warrior of the new battlefield- Ventilator, Portable Respiratory Monitor- Capnostream " on 14th September 2020.



The poster has a dark purple background with a grid pattern. It includes logos for Medtronic, EBSA, and Sahrdaya College. The text provides details about the session, including the date, time, and registration link.

**NEW INDUSTRY- ACADEMIA UNIQUE INITIATIVE BY SAHRDAYA AND MEDTRONIC- WORLD'S LARGEST MEDICAL DEVICE COMPANY**

**MEDTRONIC PROGRAM ON READY TO INDUSTRY SKILLS FOR BIOMEDICAL ENGINEERS "Medtronic PRIME"**

for **Engineering Biomedical Students Association (EBSA)**

**DATE: 14 SEPTEMBER 2020** **TIME: 2 PM TO 4 PM** **PLACE: ZOOM Virtual Meeting**

**FREE REGISTRATION**

**Registration link:**  
<https://bit.ly/2DVNbfL>

**E-certificates provided to all participants**

**Session 1:**  
Indomitable warrior of new battle field-Ventilator, Portable Respiratory Monitor-Capnostream

**JOIN US TODAY!**

3. Two alumni- Mr. Jenson of the 2014 batch working as a software engineer at Accenture, Bangalore, and Mr. Tinto K Anto of the 2008 batch, Senior Marketing Manager, Siemens visited our college and interacted with faculty members on 18/9/2020.

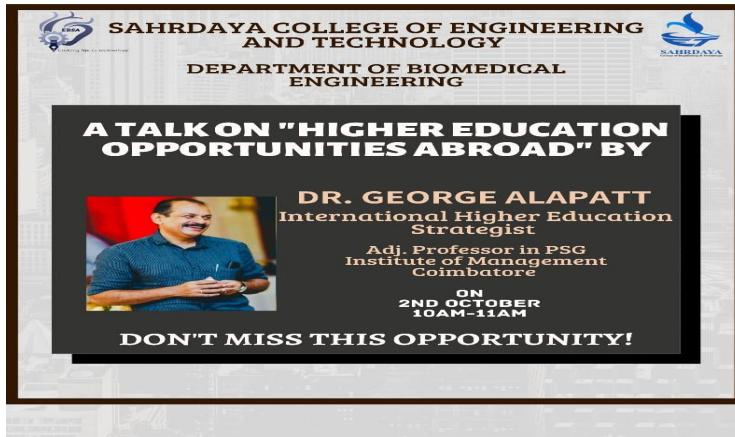


4. The Department of Biomedical Engineering in association with the Sahrdaya Engineering College Alumni Association conducted an alumni talk by Dr. Karthik Soman (2006-2010 batch) currently working as an Associate Specialist, University of California, San Francisco on 30th September 2020 from 11 a.m to 12 p.m.



5. The Engineering Biomedical Students Association(EBSA) of Sahrdaya College of Engineering and Technology organized an interactive session on "Higher Education

Opportunities Abroad" by Dr. George Alapatt who is the International Higher Education Strategist, currently working as the Adjunct Professor at PSG Institute of Management on 2nd October 2020 from 10-11 a.m.



6. The department newsletter SILIENCE was released on 3/10/2020 by Executive Director Fr. George Pareman and a copy was handed over to the Principal Dr. Nixon Kuruvila.



7. A demo session was conducted by the officials of Fluke Biomedical company on 1/12/2020 for the staff of the Biomedical Department on safety analyzers, defibrillators, multiparameter monitoring equipment

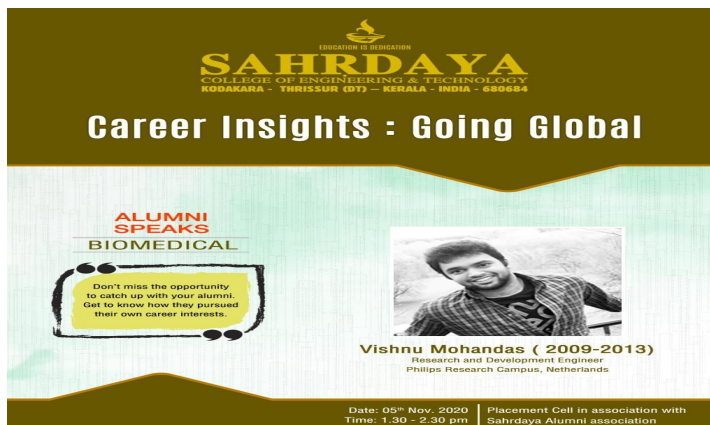




8. EBSA celebrated World Biomedical Engineer's Day on December 5th, 2020.



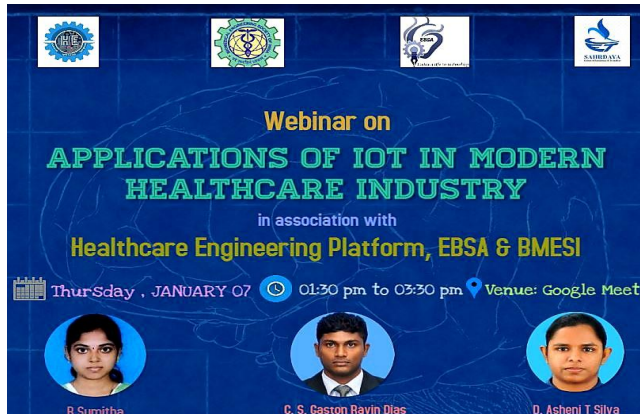
9. The students of BM Department interacted with Mr. Vishnu Mohandas, alumni, 2009-2013 Batch, currently working as Research and Development Engineer, Philips Research Campus, Netherlands on 5/11/2020. Mr. Yuvaraj of BM Department was in incharge of the same.



10. EBSA conducted a quiz-BIO QUIZ for Biomedical students on 20/11/2020.



11. Healthcare Engineering conducted a free webinar to BME students and faculty on **Modern Concepts in Healthcare Technologies** on 8th January 2021.



12. The Department of Biomedical Engineering in association with K-DISC, IEEE EMBS, Medical Devices Innovation Consortium (MDIC) and APJ Abdul Kalam Technological University conducted an online panel discussion on **“Changes in Medical Device Industry and Regulations in the last five years”** inculcating eminent personalities from regulatory bodies and industrial experts on 14th January 2021.



13. Fluke Biomedical company conducted a hands-on training session on Electrical Safety Analyzer on 19th January 2021 to the staff of the BM and EEE Department.



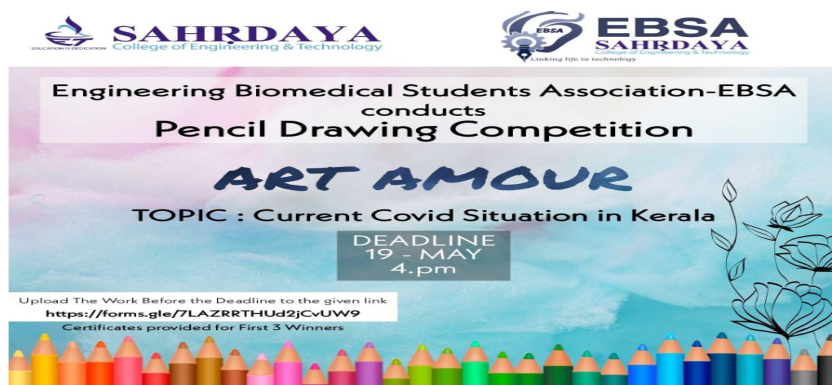
14. CoreEL Technologies, Bengaluru in association with Sahrdaya College of Engineering conducted an Add-On Certification Course on "MATLAB Fundamentals" on 23rd March 2021 from 2:00 PM - 4:30 PM. An interactive Q&A session also took place after the talk.
15. A placement talk for final year students was conducted by Mr. Jibin Jose, Assistant Professor of BM department on 23rd March 2021.
16. An add-on talk on Computational Methods in Biomedical Engineering was conducted by Ms. Minimol, HOD and Professor, Electronics and Biomedical Department on 29th March 2021.
17. A talk on placement and career was conducted on 16th April 2021 by Mr. Sujith, Managing Director & C E O, Ibis Medical Systems for final year and pre final year students.
18. The department biannual newsletter SILIENCE was released on 12/4/2021 by Executive Director Fr. George Pareman.
19. Online technical and HR interview was conducted for interested students for an internship at IIT, palakkad and the following students were shortlisted:
  - a. Clinto (S6 BM)
  - b. Sandra (S6 BM)
  - c. Jiffeena (S8 BM)
  - d. Linda (S8 BM)
  - e. Hitha (S8 BM)
20. The Biomedical Department in Association with the Centre of Research and Development, and BMESI organised an Online Workshop on "Technical Writing" by Dr. Finto Raphael, Head of the Department on 30th April 2021 from 01:30 PM for pre-final year students.



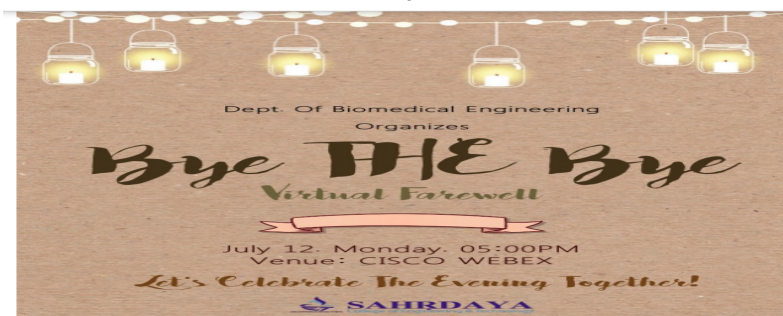
21. The Department of Biomedical Engineering in association with the Sahridaya Engineering College Alumni Association conducted an alumni talk by Ms. Ida Baby (2009-2013 batch) currently working as an Software Integrator and Application Engineer at Porsche Engineering on 8th May 2021 from 2 p.m to 3 p.m.



22. The Engineering Biomedical Students Association (EBSA) of Sahridaya College Of Engineering and Technology conducted 'Art Amour', a drawing competition on 19/5/2021.



23. The online farewell for final year students (2017 Batch) was conducted on 12/7/2021.





## STUDENT ACHIEVEMENTS

1. Govind, third year BM student participated in Smart India Hackathon 2020 and their team won second prize.



താനും ടിയുമായി കണക്ടഡ് ആണ് എന്നു മോദി പറഞ്ഞപ്പോൾ ആർക്കും ഒന്നും പിടി കിട്ടിയില്ല. ടിഇഎ എന്നു അന്തരീക്ഷത്തിൽ എഴുതിക്കാണിച്ചു വലിയ ചിരിയോടെയാണ് അദ്ദേഹം പ്രോജക്ടിനെക്കുറിച്ചുള്ള ചോദ്യങ്ങളിലേക്കു കടന്നത്.

മെഡിക്കൽ ഉപകരണങ്ങൾക്കു കേടുപാടു സംഭവിച്ചാൽ വെർച്വൽ പിന്തുണ കൊടുക്കുന്ന സംവിധാനം വികസിപ്പിച്ചതിനെക്കുറിച്ചാണ് ഗോവിന്ദ് പ്രധാനമന്ത്രിയോടു വിശദീകരിച്ചത്. കോളജിലെ ആറു പേരടങ്ങുന്ന മിസ്റ്റിക് എന്ന സംഘമാണ് ഈ സംവിധാനം വികസിപ്പിച്ചത്. ഇവർ ഇത് ടിറ്ററിൽ പോസ്റ്റ് ചെയ്തിരുന്നു. ഓൺലൈൻ വഴി 5 മിനിറ്റ് അഭിമുഖവും പൂർത്തിയാക്കിയാണ് ഹാക്കത്തേണിലേക്കു തിരഞ്ഞെടുക്കപ്പെട്ടത്.



2. Eveline Durom of S7 BME was selected for interaction with the Honourable Chief Minister of Kerala Sri Pinarayi Vijayan on 1/2/2021.




**നവകേരളം  
യുവകേരളം**

**ഉന്നത വിദ്യാഭ്യാസത്തിന്റെ കരുത്ത്**

ബഹുമാനപ്പെട്ട കേരള മുഖ്യമന്ത്രി  
പിണറായി വിജയൻ  
അഞ്ച് യൂണിവേഴ്സിറ്റികളിലെ  
വിദ്യാർത്ഥികളുമായി സംവദിക്കുന്നു

**1<sup>ST</sup> February 2021, 10.00 AM**  
**OPEN AIR AUDITORIUM , CUSAT**

APJ Abdul Kalam Technological University  
Cochin University of Science and Technology  
Kerala University of Fisheries and Ocean Studies  
Kerala University of Health Sciences  
The National University of Advanced Legal Studies



3. Final year project of 2016-2020 batch under the guideship of Dr. Remya George with student members Ms. Mariah Thomas Mampilly, Ms. Edina Prakash, Mr. Haroon Imshad R, and Mr. Nidhin ET is decided to be converted as a product by IBIS Medical Equipment & Systems Pvt Ltd. Ms. Mariah Thomas Mampilly has been offered an internship opportunity at IBIS with a stipend of Rs. 10,000.



Dr. Remya George  
Asst. Professor in Biomedical Engineering  
Sahridaya College of Engineering and Technology  
Kodakara, Thrissur

**Letter of Appreciation – Ovulation Tracker Product Development**

Dear Dr. Remya George

Ibis Medical Equipment & Systems Pvt Ltd would like to express our special gratitude towards your contributions as a consultant to our company in the research and development of Ovulation Tracker Product. Ibis appreciate your R&D efforts in product development through an academic project. The student members of the project team Ms. Mariah Thomas Mampilly, Ms. Edina Prakash, Mr. Haroon Imshad R and Mr. Nidhin E T done a marvelous job. We really appreciate team sahrdaya for your extra ordinary efforts to make industry ready biomedical engineers.

To convert the ovulation tracker proof of concept developed to commercial product and to recognize the best performer among the students Ibis Medical Equipment & Systems Pvt Ltd is glad to offer an Intern opportunity to Ms. Mariah Thomas Mampilly at our company with a stipend of Rupees 10000. We hope we can launch our commercial product in short time and it will be marked as a unique industry-academia collaborative outcome.

On behalf Ibis, we express a sincere gratitude in your contributions & look forward to a continuing association that is mutually rewarding.

Yours sincerely

MD'S CEO



Ibis Medical Equipment & Systems Pvt. Ltd.  
45/279, Kothapally Road, Argemul, Thiruvananthapuram P.O., Ernakulam - 682 032, India  
Mobile: 8999255505 / 9446507619, Phone : 0484 2336080  
E-mail: info@ibismedical.net www.IbisMedical.net

4. Ms. Shishira P.A and Ms. Tiana Koottungal bagged the second and third positions in the Biomedical Engineering 2016-2020 batch of APJ Abdul Kalam Kerala Technological University.
5. Eveline Durom of S7 BME won WhyHack Hackathon conducted in connection with Women startup summit for solving AI problems by TCS.

## ദേശീയ ഹാക്കത്തോൺ: ഈവ്ലിൻ ഡ്യൂരോ വിജയി

കൊടകര ദേശീയ വനിതാ സ്റ്റാർട്ട് അപ്പ് ഉച്ചകോടിയോട് അനുബന്ധിച്ചു നടത്തിയ വൈഹാക്കി ഹാക്കത്തോണിൽ കൊടകര സഹൃദയ എൻജിനീയറിംഗ് കോളജിലെ ബയോ മെഡിക്കൽ എൻജിനീയറിംഗ് വിദ്യാർത്ഥിനി ഈവ്ലിൻ ഡ്യൂരോ വിജയിയായി.



ഈവ്ലിൻ ഡ്യൂരോ

കേരള സ്റ്റാർട്ട് അപ്പ് മിഷനും ടാറ്റാ കൺസൾട്ടന്റ്സി സർവീസും (ടിസിഎസ്) ചേർന്നാണ് ഹാക്കത്തോൺ സംഘടിപ്പിച്ചത്. നിർമ്മിതബുദ്ധിയെ അടിസ്ഥാനമാക്കിയുള്ള ഹൈലേറ്റ് എക്സ്ട്രാക്ടർ എന്ന സാങ്കേതിക വിദ്യയാണ് ഈവ്ലിൻ വികസിപ്പിച്ചത്.

ഈ സാങ്കേതിക വിദ്യ ഉപയോഗിച്ച് ഫുക്ബോൾ പോലുള്ള കളികളുടെ വീഡിയോ അടിസ്ഥാനമാക്കി കളിക്കാരുടെ ചലനങ്ങളും ഭാവവ്യത്യാസങ്ങളും അപഗ്രഥിച്ച് കളിക്കാരുടെ പ്രകടനം വിലയിരുത്താനാകും.

അവാർഡിനു പുറമെ ഈവ്ലിനു ടിസിഎസിനോടു ചേർന്നു പ്രവർത്തിക്കാനുള്ള ക്ഷണവും ലഭിച്ചിട്ടുണ്ട്. ആലുവ സ്വദേശി മിത്ത്ത് ഡ്യൂരോമിന്റേയും ഐലിൻ മെൻഡസിന്റേയും മകളാണ് ഈവ്ലിൻ.

6. Eveline Durom of S7 BME was selected for doing an internship at TCS Rapid Labs.

7. The following students have qualified GATE 20-21- Theres Palatty, Anjo Xavier and Evelin Durom of 2017 Batch and Anna Roy of 2018 Batch.
8. Anjana Divakaran, Minsha M.Z, Sreeraag P.S and Greeshma varghese of S6 BM under the guidance of Ms. Sony N.S presented a paper titled "Video Based Gait Analysing System" for the session Biosensor Technology at the First International Conference on Biomaterials and Biosensors Technology organised by Bannari Institute of Technology, Sathyamangalam, Tamil nadu on 12th March 2021 through online platform.



9. Abhilash Joy, Rojin Anto Varghese, Angela Varghese and Anna Mary Sajeev of S8 BM under the guidance of Dr. Jeethu Ravindran presented a paper titled "Medicine Delivering and Parameter Monitoring Robot" at the International Conference on Advanced Computing and Communication Systems (ICACCS) organised by Sri Eshwar College of Engineering, Campus Coimbatore, Tamil Nadu in association with IEEE on 19th and 20th March 2021 through online platform.
10. Soji Anna Saji, Alan Jose, Karthika A M, Abhijith D of S8 BM under the guidance of Mrs. Reshma Jose presented a paper titled 'A Sustainable Facial Recognition Based Heart Rate Monitoring System for the Detection of Atrial Fibrillation in Paralyzed' under the Energy Track of the International Conference on Energy and Environment (ICEE) held at Jyothi Engineering College, Thrissur on April 9, 2021.
11. Soji Anna Saji, Alan Jose, Karthika A M, Abhijith D of S8 BM under the guidance of Mrs. Reshma Jose published a paper titled 'A Sustainable Facial Recognition Based Heart Rate Monitoring System for the Detection of Atrial Fibrillation in Paralyzed' in AIP conference proceedings 2396, 020019 (2021); <https://doi.org/10.1063/5.0066304> Published Online: 28 September 2021.

12. The project titled 'A Sustainable Facial Recognition Based Heart Rate Monitoring System for the Detection of Atrial Fibrillation in Paralyzed' by Soji Anna Saji, Alan Jose, Karthika A M and Abhijith D of S8 BM guided by Mrs. Reshma Jose was shortlisted for the final round of “**Chhatra Vishwakarma Awards (CVA) 2020-21.**
13. The project group consisting of Abhilash Joy, Rojin Anto Varghese, Angela Varghese, Anna Mary Sajeew supervised by Ms. Supriya Mary Sunil published the paper titled “Medicine Delivering and Patient Parameter Monitoring Robot-MedRobo” in the International Advanced Research Journal in Science, Engineering and Technology (IARJSET) in June 2021.
14. The project team consisting of Gipso P Ginny, Anusree K U, Adwaith sen, and Krishna Priya S secured third position in the National Level Project Presentation organized by Industrus Tech on 28th June 2021. The title of the project is “Early Disease Detection by Nail Image Processing” and guided by Mr. Kiran Philip Issac of BM Dept.



15. The project titled “**Raeda-** Computer Vision based Reactive Agility and Fitness Analysis System” by Govind T., Theres Palatty, Silpa M. U. and Jerin Johnson guided by Mrs. Remya George was shortlisted for the state level evaluation of YIP 2020.
16. Alfin joseph, Rithika Rajith and Anitta Baby, the students of Sahrdaya Engineering college and technology, under the guidance of Dr.Remya George has participated and presented a paper titled "Advanced Walking Stick" in the international virtual conference RIST 2021



held on 19th of June, organized by Ernad Knowledge city, Technical campus, Malappuram.

17. Sreerag P.S, Noil Davies and Amarnath P.S of S6 Biomedical Engineering were the winners for the National Technology Day Event conducted by IEEE Student Branch, Sahrdaya College of Engineering and Technology.

18. The following are the toppers of S7 University exam from 2017-21 batch of Biomedical Engineering students.

First: Anukrishna T- (SGPA- 9.23)

Second: Soji Anna Saji (9.16), Theres Palatty (9.16)

Third: Greeshma Bobby (9.14)



19. 12 students from 2017-21 batch of Biomedical Engineering secured B.Tech Honours Degree.



## SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY



### CONGRATULATIONS

12 Students of 2017-21 batch of Biomedical Engineering secured B.tech(Honours) degree



AGNA JOSE



ALEN JOSE ANTO



ANUKRISHNA



ANZE JOSHY



EVELIN DUROM



FIJIN GEORGE



LAKSHMI



MUHAMMED ADIL



NEHA



ROJIN



SOJI



THERES PALATTY



DEPARTMENT OF BIOMEDICAL ENGINEERING  
www.sahrdaya.ac.in | 9061115664, 9961443764

20. The Alumni and Faculty Members at Department of Biomedical Engineering instituted an Award named “ Best Biomedical Evangelist Award” to recognise a final year B.Tech BME student who made voluntary contributions towards the promotion of Biomedical Engineering and the department, during his/her studies at Sahrdaya. The award consists of Rs. 5000/- as Cash Award and a Certificate of Appreciation. The prestigious Best Biomedical Evangelist Award winner for the year 2021 is Ms. Soji Anna Saji from S8 BM.

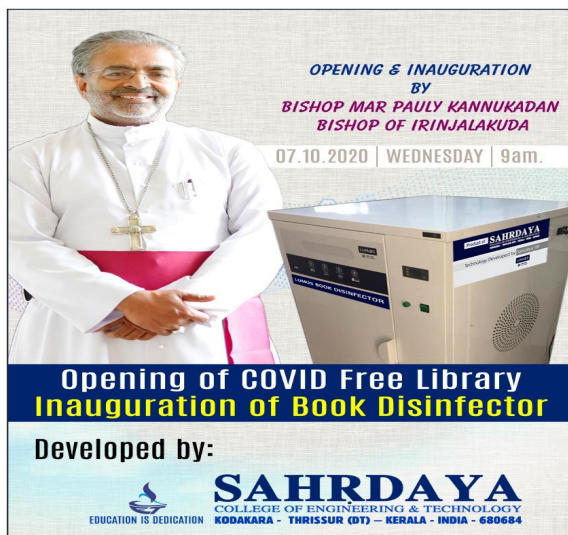


21. Best Final Year Project Award- BME has been awarded for the project titled: "A Real-Time Facial Recognition Based Heart Rate Monitoring System for the Detection of Atrial Fibrillation in Paralyzed". The team consists of Abhijith D, Alan Jose, Karthika A M and Soji Anna Saji. The project is guided by Prof. Reshma Jose, Assistant professor of BM Dept.



## FACULTY ACHIEVEMENT

1. The Inauguration of Book Disinfector and opening of Covid-19 Free Library took place on 7/10/2020 (Wednesday) at 9 AM in the Central Library by His Excellency Bishop Mar Pauly Kannookadan, Chairman, SCET. The Book Disinfector was developed at the Sahrdaya Technology Business Incubator. The device was developed by Mr. Geo Lawrence, Design Engineer, Devaditek Innovations Pvt. Ltd, Sahrdaya TBI and supported by Mr. Jibin Jose, Assistant Professor, Biomedical Department.



2. Dr. Finto Raphel, HOD of Biomedical Department was the moderator for IEEE webinar series on Opportunities and Challenges in Engineering Education on 18/9/2020.

Educational Activities & Strategic Initiative for Academic Engagement  
IEEE Kerala Section

IEEE  
Advancing Technology for Humanity

Free Webinar Series (September 18 - 21)  
**Opportunities and Challenges In Engineering Education**

Register @ <http://bit.ly/QandCinEE>

**September 18, 4:30 - 6:30 PM**

**SPEAKERS**

Dr. Rajasee M S  
Vice Chancellor, APJKTU  
Chief Guest (Inauguration)

Mrs. Sarada Jayakrishnan  
Chair, IEEE Kerala Section

Dr. Sameer S M  
Professor, NIT Calicut

Dr. R Manu  
Professor, NIT Calicut

Dr. Harikrishna M  
Asst. Professor, NIT Calicut

**September 19, 4:30 - 6:30 PM**

Dr. K R Suresh Nair  
Founder & CEO, Design Alpha

Er. Varghese Cherian  
Head, Technology Services,  
UST Global

Prof. Muhammed Kasim S  
Professor (Retd.), TKMCE

Er. C M Varughese,  
CEO, EGET Kochi

**September 20, 4:30 - 6:30 PM**

Dr. Chinmoy Saha  
Assoc. Prof. IIST Tvm

Ar. Sebastian Jose  
Principal Architect, Silpi Architects

Er. Haneef Shijas  
Research Scholar

Er. Radhakrishnan A  
Advisor, EdgeVarsity Learning  
Systems Pvt. Ltd

**September 21, 4:30 - 6:30 PM**

Mr. H Manojkandan  
Director, Ja Hind Institute of  
Advanced Studies

Dr. K R Suresh Nair  
Founder & CEO, Design Alpha

Er. Varghese Cherian  
Head, Technology Services,  
UST Global

Dr. Finto Raphel  
Assoc. Prof. & Head, BME  
Sahridaya College of Engg.

Dr. Kumaran S  
Asst. Professor, NIT Calicut

3. Dr. Yuvarja V, Assistant Professor of Biomedical Department was the speaker for **International Online FDP on MEMS based Sensors and Actuators for biomedical Application** from Nov 2nd to Nov 7th conducted by the Department of Electronics and Communication, KL University, Vijayawada.

KL University Department of Electronics & Communications

**INTERNATIONAL ONLINE FDP ON MEMS BASED SENSORS AND ACTUATORS FOR BIOMEDICAL APPLICATIONS**  
NOVEMBER 2<sup>nd</sup> - 7<sup>th</sup>, 2020

**Dr. L. SUJATHA**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. S. RAGHAVAN**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. S. RAVISEKARAN**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. S. RADHAKRISHNAN**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. A. R. KALAIARASI**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. KRISHNAPRIYA**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. SUGANTHI**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. YUVARAJ VELUSAMY**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. RAMA S. KOMARAGIRI**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. SHANTHI**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. K. SRINIVASARAO**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

**Dr. ARAVINDAN**  
Associate Professor, Dept. of ECE,  
KL University, Vijayawada

Registration Link: <https://forms.gle/fH3Z6U3oCaHD1u29>

4. Dr. Yuvarja V, Assistant Professor of Biomedical Department was the speaker for **AICTE Sponsored STTP on FUTURISTIC APPLICATIONS AND RESEARCH OPPORTUNITIES OF NANOELECTRONICS IN BIOSCIENCE** from November to December conducted by the



Department of Electronics and Communication, Sathyabama Institute of Science and Technology.

 <b>SATHYABAMA</b> <small>INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) Accredited "A" Grade by NAAC   12B Status by UGC   Approved by AICTE www.sathyabama.ac.in</small>		
<b>AICTE Sponsored STTP on</b> <b>"FUTURISTIC APPLICATIONS AND RESEARCH OPPORTUNITIES OF NANO-ELECTRONICS IN BIOSCIENCE"</b> <b>09.11.2020- 14.11.2020 (Online Mode)</b>		
Day	10.00 A.M. – 11.30 A.M.	02.00 P.M. – 3.30 P.M.
9.11.2020 (Monday)	<b>Inauguration 9.45 AM to 10.00 AM</b>  <b>Evolution of Nano electronics</b> by <b>Dr.T.D.Subash</b> Dean, Academic & Research Mangalam College of Engineering Kottayam, Kerala	<b>Nano device and Characterization</b> by <b>Dr.P. Kuppusami</b> Scientist, Sathyabama Institute of science and technology, Chennai
10.11.2020 (Tuesday)	<b>Basics of Nanosensors</b> by <b>Dr.Ravindra Kumar Jha</b> Scientist, CSIR-CEERI Pilani	<b>Introduction to Micro and Nano technology and indigenous developme of MEMS sensor and its novel applications</b> by <b>Dr. J.Jayapandian,</b> Head & Scientific officer(Retd), IGCAR, Kalpakkam
11.11.2020 (Wednesday)	<b>Nano Robotics in Bioscience</b> by <b>Prof.Dr.V. Yuvaraj</b> Associate Professor Sahrdaya College of Engineering & Technology, Kerala	<b>Scaling of Nanostructures</b> by <b>Dr.Kumar Prasannajit Pradhan,</b> Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram
12.11.2020 (Thursday)	<b>Device Physics, MEMS and NEMS</b> by <b>Dr. S.Raji Marjorie</b> Professor and Program Director Saveetha School of Engineering	<b>Role of Chemistry in Nano electronics</b> by <b>Dr.K.S.Nithin</b> Assistant Professor, Department of Chemistry The National Institute of Engineering, Mysore

5. Dr. Yuvaraj, faculty of BM Department presented a topic in an online one Week International Faculty Development Program **"Modelling, Simulation and Fabrication of Futuristic Semiconductor, MEMs and NEMs devices"**.

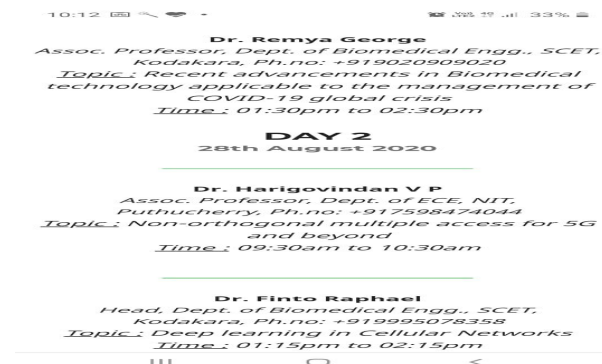


6. Mr. Jibin Jose, Assistant Professor, Department of Biomedical Engineering was involved in the product development of IBIS Medical Equipment & Systems Pvt Ltd as a consultant for the

product Raze COV-advanced Ultraviolet (UV-C) Disinfection System for quick, chemical-free sterilization of high infection-prone areas, vital for containing the Covid-19 spread.



7. Dr. Remya George and Dr. Finto Raphael were the Keynote speakers for AICTE sponsored two-day National Conference on “Innovations in Communication Networks, Information Security, Embedded Systems and Signal Processing (ICIES 2020)” for the topic **“Recent advances in Biomedical Technology applicable to the management of COVID -19 global crisis and Deep Learning for Cellular Networks”**.



8. Ms. Reshma Jose presented a paper titled "CAD SYSTEM FOR DETECTION AND CLASSIFICATION OF LIVER CANCER USING OPTIMIZED ONN & CNN CLASSIFIERS" at IEEE PICC 2020, the third edition of the International Conference on POWER INSTRUMENTATION CONTROL AND COMPUTING held on December 10th to 12th 2020 at GEC, Thrissur and published in IEEE Xplore, DOI: 10.1109/PICC51425.2020.9362448, **INSPEC Accession Number:** 20509082, **Electronic ISBN:**978-1-7281-7590-4, **ISBN:**978-1-7281-7591-1.

9. Mrs. Reshma Jose presented a paper titled **“Automatic Segmentation of Tumor using Super pixel Segmentation and Advanced Classification Algorithm”** under the Energy Track of the International Conference on Energy and Environment (ICEE) held at Jyothi Engineering College, Thrissur on April 9, 2021.

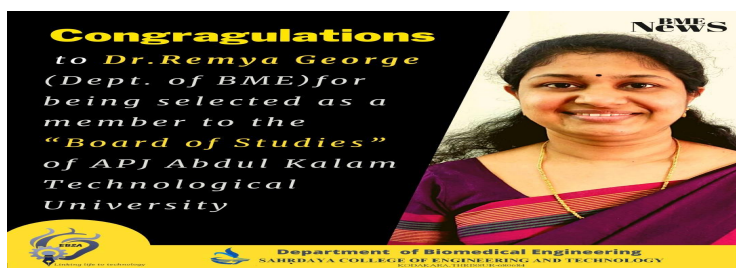
10. Mrs. Reshma Jose published a paper titled **“Automatic Segmentation of Tumor using Super pixel Segmentation and Advanced Classification Algorithm”** in AIP Conference Proceedings 2396, 020018 (2021); <https://doi.org/10.1063/5.0066639> Published Online: 28 September 2021.

11. Ms. Reshma Jose published a paper titled **“Sustainable analysis of liver tumour detection using various segmentation techniques”** in the *World Review of Science, Technology and Sustainable Development (WRSTSD)*, Vol. 17, No. 2/3, 2021, DOI: 10.1504/WRSTSD.2021.114682.

12. The Centre for Assistive Technology & Innovation (CATI) at the National Institute of Speech & Hearing (NISH) had invited proposals for developing Augmentative and Alternative Communication (AAC) systems for children with poor communication ability.

The proposal submitted by a team from Biomedical Engineering department guided by Ms. Reshma Jose with student members Antony Paul, Clinto Martin, Angel Rose Chakkiath, Rinta Raju, Jummy Jaimy and Jasmine John has been shortlisted for the next round of AAC Device Development Project.

13. Dr. Remya George was selected as a member to the Board of Studies of APJ Abdul Kalam Technological University.



14. Mr. Kiran Philip Isaac of Biomedical Engineering department got admission for Ph.d at IIT, Chennai.

15. Mr. Jibin Jose, Assistant Professor of Biomedical Department was the resource person for **Webinar on Innovation and Product Development** on May 29th jointly conducted by the Institution's Innovation Council and Association of Biomedical Engineering, SSN College of Engineering, Chennai.



## Sri Sivasubramaniya Nadar College of Engineering

(An Autonomous Institution, Affiliated to Anna university,  
Old Mahabalipuram Road, Kalavakkam, Chennai 603 110.)





**Institution's Innovation Council (SSN - IIC)  
&  
Association of Biomedical Engineering**

**Organize  
Webinar on  
Innovation and Product Development  
May 29th, 2021**

**Zoom link :** <https://us02web.zoom.us/j/8717306842?pwd=NVpvcStHT0Vxb2k5c09KSUENNGlRQT09>

**Event Coordinators**  
**Ms. Dhanalakshmi M, Assistant Professor, BME**  
**Ms. R. Nithya, Assistant Professor, BME**

**Resource Persons**



**Prof. Srikanth Janarthanan,**  
 Part II LLP, Project manager,  
 KG Information systems limited - Consultant,  
 GRADS LLP, Director and CEO.  
 Time : 2.00 pm - 3.00 pm



**Mr. Jibin Jose**  
 Innovator & Mentor, Nodal officer & Co-ordinator,  
 Innovation and Entrepreneurship Development Center,  
 Kerala Startup Mission,  
 Sahridaya College of Engineering and Technology,  
 Ottappalam, Kerala  
 Time : 3.00 pm - 4.00 pm

16. A UK Patent has been granted for the invention titled "Device for Surgical Assistance" by Mr. Jibin Jose, faculty of BM department.



17. The faculty members of Biomedical Department have been appointed as technical experts by the District Disaster Management Authority to visit eight hospitals under its jurisdiction and give reports regarding the preparedness of the hospitals for the third wave of corona and give their recommendations to improve the overall functioning of the hospitals.



പ്രേഷകൻ

പൊതുവിതരണ  
ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റി &  
ജില്ലാ കളക്ടർ  
തൃശ്ശൂർ

സ്വീകർത്താവ്

പ്രിൻസിപ്പാൾ  
സഹായ കോളേജ് ഓഫ് എഞ്ചിനീയറിംഗ്  
കൊടകര

സർ,

വിഷയം: കോവിഡ് 19- മൂന്നാംതരംഗത്തിന് മുന്നോടിയായി പ്രതിരോധ  
പ്രവർത്തനങ്ങൾ സ്വീകരിക്കുന്നത് -സംബന്ധിച്ച്  
സൂചന: ജില്ലാ പ്രൊജക്ട് മാനേജർ (NHM), തൃശ്ശൂർ- ഈ സഹായ  
എഞ്ചിനീയറിംഗ് കോളേജ് പ്രിൻസിപ്പാൾ എന്നിവർ തമ്മിലുള്ള ഫോറം  
സംഭവം.

മേൽ വിഷയത്തിലേക്ക് ശ്രദ്ധ ക്ഷണിക്കുന്നു. താങ്കൾ മേധാവിയായിട്ടുള്ള സഹായ  
കോളേജ് ഓഫ് എഞ്ചിനീയറിംഗ്, കൊടകരയിലെ ബയോ മെഡിക്കൽ എഞ്ചിനീയറിംഗ്  
വിഭാഗത്തിലെ അദ്ധ്യാപകരെയും അവസാന വർഷ വിദ്യാർത്ഥികളെയും  
ഇംഗ്ലീഷ് പരീക്ഷയ്ക്കായി ജില്ലയിലെ കോവിഡ് ചികിത്സ നടത്തുന്ന എല്ലാ സർക്കാർ  
ആശുപത്രികളിലേയും, സർക്കാർ മെഡിക്കൽ കോളേജിലേയും മെഡിക്കൽ ഉപകരണങ്ങളുടെ  
കാര്യക്ഷമത പരിശോധിക്കുന്നതിനും ഇറപ്പുവരുത്തുന്നതിനായി ബയോ മെഡിക്കൽ ടീമുകളെ  
സജ്ജീകരിച്ച് ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റിയുടെ കോവിഡ് പ്രതിരോധ  
പ്രവർത്തനങ്ങളുമായി സഹകരിക്കാൻ അഭ്യർത്ഥിക്കുന്നു.

പരിശോധന നടത്തേണ്ട ആശുപത്രികളുടെ വിവരം ചുവടെ ചേർക്കുന്നു.

1. സർക്കാർ മെഡിക്കൽ കോളേജ്, തൃശ്ശൂർ
2. ജനറൽ ആശുപത്രി, തൃശ്ശൂർ
3. ജനറൽ ആശുപത്രി, മാങ്ങാട്

18. The faculty members of Biomedical Engineering Department headed by Dr. Finto Raphael split into three groups and visited all the eight hospitals from 5th to 9th July 2021 and made a detailed study on the working and maintenance of biomedical equipment and preparation made by them to face the third wave of corona. The team visited all the departments including OTs, wards and oxygen plants and consulted medical and paramedical staff for the detailed investigation of the problems faced by the hospital and their suggestions for the same.

19. The APJ Abdul Kalam Kerala Technological University Sponsored Five-days FDP on "Embedded Systems and IoT in Biomedical Applications" organized by the Department of Biomedical Engineering, Sahridaya College of Engineering and Technology in association with the Biomedical Engineering Society of India (BMESI) was conducted from 12th - 16th July 2021.



**APJ Abdul Kalam Technological University**

**SPONSORED**

**Five-Day online Faculty Development Program  
"Embedded Systems and IoT  
in**

**Biomedical Applications  
(ESIBA 2021)"**

**July 12th-16th, 2021**

**Coordinators:  
Dr. Finto Raphael**

**Register on or before  
8th July 2021**

**Dr. Remya George**

**Contacts: 9942255044, 9995078358  
email: bmepgm@sahridaya.ac.in**

**DEPARTMENT OF BIOMEDICAL ENGINEERING**  
**in association with**  
**Biomedical Engineering Society of India**  
**(BMESI)**



**SAHRDAYA**  
College of Engineering & Technology

## WORKSHOPS/ FDPs/ TRAININGS ATTENDED BY FACULTY

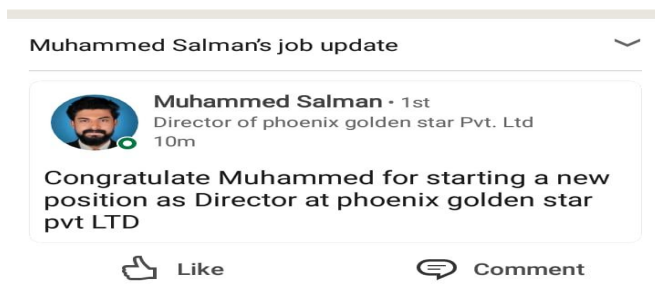
1. Mr. Yuvaraj, faculty of BM Department attended AICTE Training And Learning (ATAL) Academy Online FDP on **"3D Printing & Design"** from 2021-1-4 to 2021-1-8 at Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram.
2. The BM Department conducted an online FDP titled **"Artificial Intelligence and Machine Learning for Biomedical Applications"** from July 13th to July 24th, 2020, BME dept. SCET.
3. All faculties of BM department attended AICTE sponsored STTP on **"Outcome-based Education with assessment and Evaluation"** organized by the Department of Electronics and Communication Engineering of Sahrdaya College of Engineering and Technology, Kodakara from 23rd Nov to 28th Nov 2020.
4. Ms. Reshma Jose attended a webinar on **"Polymeric Biomaterials for Tissue Engineering Applications"** hosted by google meet platform at 11 a.m -12:30 p.m on November 30, 2020, by the Department of AS & H of Sahrdaya College of Engineering and Technology, Kodakara.
5. Ms. Reshma Jose attended an AICTE Sponsored two week FDP (Online) on **"Machine Learning and Deep Learning: A Hands -On Approach"** organised by Division of Electronics Engineering, School of Engineering, CUSAT during 7 to 19 December 2020.
6. Ms. Reshma Jose of BM Department participated in an AICTE sponsored online ATAL FDP on **"Applied Machine Learning and Data Science "** hosted by Department of Computer Applications, SAINTGITS College of Engineering, Kottayam, Kerala from 18th to 22nd January 2021.
7. Ms. Reshma Jose of BM Department participated in KTU sponsored online three day Faculty Development Program on **"Biosensors in Point of Care Diagnostics- Strategies and Implementation"** hosted by Department of Biotechnology and Department of Biomedical Engineering, Sahrdaya College of Engineering and Technology, Kodakara from 19th to 21st April 2021.
8. Ms. Reshma Jose of BM Department participated in KTU sponsored online FDP on **"Deep Learning for Signal Processing- Basics to implementation"** hosted by Department of Electronics and Communication, Sahrdaya College of Engineering and Technology, Kodakara from 26th to 30th April 2021.
9. Ms. Reshma Jose attended an online webinar on **"Implementation of National Educational Policy 2020"** organised by Sahrdaya College of Engineering of Technology, Kodakara on 6th May 2021.
10. Ms. Reshma Jose of BM Department attended KTU sponsored online FDP on **"Precision Health Technology "** hosted by Department of Biomedical Engineering, SSN College of Engineering, Chennai from 28th June to 2nd July 2021.

11. Dr. Remya Geoge attended an AICTE Sponsored FDP (Online) on "IOT" by Amity School of Engineering and Technology, New Delhi, held during 12 to 16 October 2020.

12. Dr. Remya George, Assistant Professor of BM Department has participated in the webinar entitled "Data Analytics using Visualization Tools" organized by the Department of Computer Science and Engineering of Sahridaya College of Engineering and Technology, Thrissur, Kerala held on 22 - October - 2020.

## PLACEMENTS

1. Muhammed Salman, 2016-20 Batch was selected as the Director of Phoenix Golden Star, Pvt. Ltd.



2. Mr. Deepak Sajan of the 2016- 2020 batch has been placed in HCL Technologies Limited as member technical staff.

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### OFFER & APPOINTMENT LETTER

Offer Release Date: February 1, 2021

**Deepak Sajan D**  
T.C 25/516(1) Darsana  
Mosque Lane, Thampanoor  
Trivandrum, Kerala

Dear Deepak Sajan D,

Congratulations! With reference to your application and subsequent interview with us for a career in our organization, we are pleased to inform you that you have been selected for employment in HCL Technologies Ltd. ( herein referred as "HCL" or "Company") we are pleased to inform you that you have been selected for employment in our organization as **MEMBER TECHNICAL STAFF**.

3. Mr. Febin and Mr. Athul of the 2016- 2020 batch have been appointed as trainee Biomedical Engineer for the Made in India ventilator project under the PM- CARES fund.

4. Mr. Vishnu P Vishwanathan of the 2016- 2020 batch has been placed at 365 Medical India Genetix as key accounts manager.

5. Ms. Edina Prakash, Ms. Anju Vinod, Ms. Midhu Susan and Ms. Bhagyalakshmi of the 2016-2020 batch have been placed at HCL Technologies Limited as Regulatory Biomedical Engineer.
6. Ms. Simna Simon of the 2016- 2020 batch has been placed at Ibis Medical Systems.
7. Ms. Gayathri of the 2016- 2020 batch has been placed at Blue Neem Medical Devices, Bangalore as Junior Engineer- R & D.
8. Mr. Jerin Thomas of the 2016- 2020 batch has been placed at Medtronics, India.
9. Ms. Parvathi Vijayan of the 2016- 2020 batch has been placed at Meditix Solutions Pvt. Ltd as RA/QA Engineer.
10. Ms. Abhishna of the 2016- 2020 batch has been placed at Pondicherry Manufacturing facility of Schiller Healthcare India Ltd.
11. Ms. Sifi of the 2016- 2020 batch has been placed at Care of Sweden as Biomedical Engineer- R & D.
12. Ms. Shabana, Ms. Sherin and Ms. Shalom Fatemah of the 2016- 2020 batch has been placed at TATA Elxi.
13. Eveline Durom and Muhammed Adil of 2017-21 batch BME were selected for placement at ZIFO Technologies.
14. Agappe Diagnostics Ltd selected two students from final year BM: Soji Anna and Anu Krishna.
15. Soumya Santhosh of 2020 batch got appointed by National Health Mission as a Biomedical Engineer at Alappuzha Medical College Hospital.
16. Shanty P X of 2017-21 batch BME has been selected for placement at Infosys.
17. Seven students of final year Biomedical got placed by Meditix Solutions Pvt. Ltd. as Associate Trainee in RA/QA.

1. AGNA JOSE
2. AISWARYA M RAJAN
3. AISWARYA RENGAN



4. Anze Joshy
5. Hitha Jayapalan
6. Keerthi Das
7. Lakshmi.K

18. Ms. Krishnapriya and Mr. Joel Tom of 2017-21 batch BME got selected as the International business development intern of Ibis medical equipment systems pvt ltd.

19. Ms. Greeshma Varghese of S8 BME got placed at Agappe Diagnostics Limited as Associate Design Engineer in R&D Equipment Division.

20. Ms. Anusree of S8 BME got placed at OMC Medical systems in the Regulatory section.

21. Mr. Albi Augustine of the 2017- 2021 batch has been placed at Meditix Solutions Pvt. Ltd as RA/QA Engineer.

22. Ms. Shilpa of the 2017- 2021 batch has been placed at Meditix Solutions Pvt. Ltd.

23. Ms. Jifeena Thomas of the 2017- 2021 batch has been placed at Star Innovations as Trainee-Medical data analyst.