

The department of Biotechnology Engineering in Sahrdaya college of Engineering and Technology was established in the year 2002 with an intake of 60 for B.Tech programme. It also offers a PG programme in Industrial Biotechnology since 2013 with an intake of 18. Sahrdaya college of engineering and technology is one of the five colleges in the state offering B.Tech in Biotechnology, and the only college that offers M.Tech in Industrial Biotechnology. Our students bagged many university ranks and they proved their excellence in student projects by winning prizes in national and regional level competitions. The very foundation and culture of the Department evolved from the dream and conception of Professor George Thottappally, one of world's pioneering Biotechnologists, often referred to as the 'Father of African Biotechnology'. We proudly release our departmental newsletter "Bio Beads" for disseminating our achievements to the stake holders as well.

We the management, staff and students express our heartfelt condolences on the sad demise of Ms. Donna Teres John (1st year student, Dept of BT) on 17th,February, 2014.

SAD DEMISE



Ms. Donna Teres John
(S1 & S2, BT)

SPECIAL EVENTS:

- BEATS arranged a talk on Design & Development of biomedical instruments and application by Dr. Manoj Mathew, Techno Laser Consultant, National Centre for biological Science, Bangalore on 4th October ,2013
- The Diamond Ring for the Best All round student of the year 2013 -14 sponsored byM/s Sunny Diamonds, Rajaji Road, Ernakulum was awarded to Ms. CarolineRose Alukkal of S8 BT.



Caroline Rose Alukkal
(S8 BT)

UNIVERSITY RESULTS:

- The 6th semester results of 2010 batch were announced on 28th November,2013and the pass percentage of BT is 92%.



Caroline Rose Alukkal
(BT-9.79)

- The 4th semester results of the 10th batch (2011 admission) were announced on 18th December, 2013. The pass percentage of BT is 79%.



Bhavya V.H.
(BT-9.41)

Anjali V.
(BT-9.41)

- The 1 & 2 semester results of the 11th batch (2012 admission) were announced on 4th December, 2013. The pass percentage of BT is 63%.



- The 7th semester results of 2010 batch were announced on 4th April, 2014 and the pass percentage of BT is 100%.



Caroline Rose Alukkal
(BT-9.63)

- The 5th semester results of the 10th batch (2011 admission) were announced on 12th June, 2014. The pass percentage of BT is 90%.



Anjali V
(BT-9.73)

- The 3rd semester results of the 11th batch (2012 admission) were announced on 25th June 2014. The pass percentage of BT is 89%.



JasminHabeeb
(BT-8.91)

PRIZES SECURED IN PROJECT COMPETITIONS:

- A group of students, comprising of Seby Antony, Celine Thomas, Jubil C.A, Maria Thomas and SangeethaGopal under the guidance of Mrs . Rahna K Rathnan won the 1st prize worth Rs 25000 and certificates in the DEMO-IT project competition conducted by IEEE as a part of Asia-Pacific congress 2013 at Hyderabad.



- A team consist of GopikaKarth and Neenu Tom secured 3rd prize worth Rs 30000 for their project “URINE: a boom for power crisis” IN Top Tech 2013 National Level Project Competition and the project was guided by Mrs.Megha P.M. This team also won Women in Technology prize worth Rs.20000 for the same project.
- A group consist of Caroline Rose, Steffy Winson, EsparithaRose & Harsha Mary under the guidance of Ms. Praveena P. won consolation prize worth Rs.10000 for the project “Effective Utilization of effluents from Aluminium coating Industry “ in techtop 2013 Natinal level Project Competition.



- A group of final year BT students comprising of Ms. Steffy Vinson, Ms. HarshaMary, Ms. Caroline Rose and Ms. Espiritha Rose under the guidance of Mrs.Praveena P. received consolation prize of Rs. 1000 in a state level project competition SEE EXPO 2014 for their project titled “Complete Detoxification andUtilization of Effluent from Aluminium Coating Industry” conducted at SacredHeart College, Chalakudy.
- A team consists of Ms. EmilaBabu, Ms. Steny Mary, Ms. Katrin Joseph, Ms.Krishnapriya and Ms. Lilly Rajan (S8 BT) under the guidance of Mrs. Rahna K.Rathnan also received consolation prize of Rs.1000 in a state level projectcompetition SEE EXPO 2014 for their project titled “Industrial Waste EmpoweredBiofuel and Bioenergy generation system” conducted at Sacred Heart College,Chalakudy.

- A group consists of Ms. Katrin Joseph, Ms. Emilia Babu, Ms. Krishnapriya K.V., Ms.LillyRajan and Ms. Steny Mary Anto (S8 BT) under the guidance of Mrs. RahnaK Rathnan secured the second prize worth Rs. 25,000 in KSCSTEproject competition for their project titled “Exploration of hidden wealth fromIndustrial Waste” held at GEC, Wayanad.
- Ms. GopikaKartha of S8 BT won “Best Agro-Technical Award” worth Rs.15,000 and “Best Innovation Award” worth Rs. 1,00,000 in the state levelproject competition “SRISHTI-14” conducted at Saintgits College of Engineering,Kottayam for her project “Electricity Production from Urine” and the project wasguided by Mrs. Megha P. M.



STUDENT PROJECT GRANTS:

- A group of students comprising of GopikaKartha and Neenu Tom under the guidance of Mrs.Megha P.M. received a project grant of Rs.10000 from ManoramaYuva mastermind for their project titled “Solar panel from hair”.
- A group of final students comprising of Steny Mary Anto, Emilia Babu and Katrine Joseph under guidance of Mrs .Rahna K Rathnan a project grant of Rs.11000 from KCSTE for their project titled “insilico Analysis of Antitubercular andHypeto protective Activity of ipomea.turpethum”.

INTER COLLEGE PARTICIPATION:

- Four students from S7 BT attended a workshop on MIT Media Lab in association with Tech Top at Mar Baselious College of Engg.&Tech. Trivandrum from 29th July to 1st Aug 2013.
- “Best paper presentation award” bagged by Ms. Jaslin P. James and Ms.HimaPrakash (M.Tech IBT) on the topic “Technological Solution for Sewage WasteTreatment & Reuse” in National Level technical competition conducted at GEC,Wayanad during 28th - 30th January, 2014.

- Ms. Sangeetha Gopal and Ms. Celine Thomas (M. Tech IBT) participated in a paper presentation competition conducted on 28th January, 2014 at GEC, Wayanad on the topic “Antimicrobial Potential of Honey towards Antibiotic Resistant Urinary Tract Pathogen”.
- Ms. Anjali Krishnan and Ms. Anusha Francis (S8BT) presented a paper on “Benefits of Traditional Knowledge-Lessons from Arogyapacha” in Kerala Science Congress held at GEC, Wayanad on 28th January, 2014.
- Ms. Steny Mary Anto & Ms. Emilia Babu (S8 BT) presented a paper entitled “Exploration of Hidden Wealth from Industrial Waste” organized by KSCST at GEC Wayanad held on 20th February, 2014.

BEATS (BTE TECHNICAL ASSOCIATION):

- On 20th July, 2013 The technical association of BT organized a motivational talk on young Leadership by Dr. Shan Rajegopal, Chairman of i3 Global UK, London
- BEATS organized an awareness class on Health & Hygiene in connection with world literacy day (Sept 8), to the villagers of Puliparakkunnu at L P School, Puliparakkunnu.
- Department of BT in association with Kerala State Council for Science Technology & Environment organized one day seminar on Intellectual Property Rights by Dr. Balagangadharan, scientist, VSSC, Trivandrum and Febin James, Trademark Attorney, Thrissur on 24th September, 2013.
- On 26th September, 2013 Dr. George Thottapilly Memorial Lecture was delivered by Dr. P R Sudhakaran, Director, Kerala Biotech Commission on the theme Molecularization of Biology and Beyond.
- BEATS arranged a technical talk on Environmental pollution in connection with World Natural Day by Prof. Sudhakaran, Head of Civil Engg Dept, SCET on 3rd October 2013 and distributed saplings to various departments. An interdepartmental Idea generation competition-“Best out of waste” conducted on the same day
- BEATS arranged a technical visit to Rubber Training Institute, Kottayam for the final year B.Tech students on 17th October, 2013.
- Alumni of Sahrdaya College Mr. Navin Jacob Koshy Senior Intellectual Property Consultant, Dubai, addressed M.Tech Industrial Biotechnology students on 19th November, 2013.
- The Bioinformatics seminar held on 7th December, 2013 had three sessions led by eminent faculties from Avinashilingam University, Coimbatore. The speakers were Dr. Shanthi, Professor, Dept. Of Biotechnology, Bioinformatics and Biochemistry, Mrs. Rajeshwari and Mrs. Shobaa (Asst. professor, Dept. Of Biotechnology, Bioinformatics and Biochemistry).
- On 11th December, 2013 Dr. K Subramanian, Prof and head of BT, Bannari Amman Institute of Technology, Tamil Nadu delivered a talk on ‘Biopolymers’.

- BEATS celebrated World Cancer day with a video presentation and a classwise poster making competition on 4th February, 2014.
- The techfest BIOVISION 2014 was inaugurated on 10th Feb, 2014. The technical sessions were handled by Dr. Asha Nair, Scientist E, RGCB on the topic “Lethal cells in the womb”, and Dr. Michelle Antony on the topic “Life style and Cancer”.



BIOVISION 2014

- On 27th June, 2014 BT students participated in a seminar on “Latest Trends in BT” at St: Josephs College, Irinjalakuda.
- BEATS in association with Kerala Academy of Science organized a workshop on “Scope and Trends in Bio-Technology” for higher secondary school teachers on 28th June, 2014. Dr. Oommen V Oommen, Director, KAS inaugurated the event.

FACULTY EXCELLENCE:

- Mr. Francis John (Asst. Professor, BT) registered for PhD at Calicut university.
- Ms. Amitha Joy (Asst. Professor, BT) registered for PhD at Bharathiyar University and completed the course work successfully.
- Mr. Leon Ittiachan (Asst. Professor, BT) successfully completed his P. hD programme.
- Dr. Ambili Mechoor (HOD, BT) conducted a career guidance class at Socrosso Convent School, Mala and CMI School, Chalakudy on 3rd and 7th January, 2014 respectively.
- Mrs. Rahna K. Rathnan (Asst. Professor, BT) delivered a talk at Paramakkavu Vidya Mandir, Thrissur held on 10th January, 2014 in order to enlighten the students about the need for protecting our environment.
- Mr. Francis John (Asst. Professor, BT) was selected to be a part of the research team from GEC, and visited IIT Chennai. He also interacted with the faculties and Head of the Biotechnology Department.
- Dr. Ambily Mechoor (HOD, BT) delivered an invited lecture on the topic “Science and Technology in Drugs Pharmaceuticals” held at GEC, Thrissur on 24th February, 2014.

- “Best Mentor Award” was bagged by Mrs. Megha P.M. (Asst. Professor, BT) in the state level project competition conducted at Saintgits College of Engineering, Kottayam on 26th February, 2014.

PAPER PUBLICATIONS & PRESENTATIONS BY FACULTIES:

- Mrs. Rahna K Rathnan (Asst. Professor, BT) and Dr. Ambili Mechoor (HOD, BT) published paper on “In vitro callus induction from leaves of ipomea Turpethum and study of anti-tuberculosis activity of leaves and callus extract” in world journal of pharmacy and pharmaceutical science, vol.2, pp.5769-5777, issue 6. [ISSN 2278-4357].
- A paper titled ‘BIOCONSERVATION of waste paper by co-culture of fungi isolated from lignocellulosic waste’ authored by Mr Francis John (Asst. Professor, BT) & co-authored by Dr. Ambili Mechoor (HOD, BT) Mrs. Rahna K Rathnan (Asst. Professor, BT) was presented in the national conference on advanced trends in chemical engineering, held at GEC Thrissur during 26th to 28th September, 2013.
- Dr. Ambili Mechoor (HOD, BT) presented a paper on “Production of bacterial cellulose and cellulose enzyme using waste paper as hydrolysate and coconut waste as dual cheap carbon source” in an international conference on materials for future, conducted at GEC Thrissur on 6th October, 2013. Co-authors on the paper include Mrs. Rahna K Rathnan & Mr Francis John (Asst. Professor, BT).
- Mrs. Rahna K. Rathnan (Asst. Professor, BT) presented a paper on the topic “Reinventing Traditional Knowledge-A Study on the Attitude of Kerala Society towards Ayurvedic medicine” in Kerala Science Congress held on 28th January, 2014 at GEC, Wayanad.

WORKSHOPS & TRAININGS ATTENDED BY FACULTIES:

- Mrs. Rahna K Rathnan (Asst. Professor, BT) attended one day training on ‘Mushroom Culture’ at Agricultural University, Thrissur on 20th July, 2013.
- Dr. Ambili Mechoor (HOD, BT) attended FDP on technopreneurship during 2nd-6th September, 2013 at GEC Thrissur.