

### *Department Vision*

- To be a national centre of excellence in teaching and research in biotechnology.
- To focus on teaching and research in diversified fields of biotechnology

### *Department Mission*

- To mould competent Biotechnologists for employment world wide.
- To become professionally fit to transform the acquired knowledge gained in life sciences and engineering into apt skills.
- To cope with the emerging challenges in the field of biotechnology.
- To deploy modern methodologies of teaching and research to make student-centred teaching learning practices a part of the system.
- To provide state-of-the-art infrastructure including campus ambience.

### **HODs Message**

Biotechnology Engineering Department of Sahrdaya College of Engineering and Technology continues its legacy of meritorious and co-curricular achievements of its staff and students. The yearly newsletter has always been true to faithfully documenting all the events and achievements. It stands testimony to Sahrdaya's dedication to excellence in all aspects of education. I wish the college the very best in all its endeavours and wish that the college may grow in the years forth into the best of the best.

The Inauguration of Post Graduate hostel was held on 7<sup>th</sup> November, 2014 by *Mar Pauly Kannoorkadan, Bishop of Irinjalakuda Diocese*. Dr. Leon Ittiachan was honoured for the award of his Ph.D degree from VIT university, Vellore in Bioscience and Technology.



Honouring Dr. Leon Ittiachan

### ***PRIZES SECURED IN PROJECT COMPETITIONS***

- Project team consisting of Ms Emilia Babu, Ms. Katrin Joseph, Ms Steny Mary Anto, and Ms Krishnapriya KV (2010 batch) won first prize of Rs 20,000 in Tech top 2014. The project was guided by Mrs. Rahna K. Rathnan.



- A team consisting of Blessy Varghese, Anju Francis, Parvathy Jayesh, Pinky Chandran, Neera Francis (S7BT) guided by Ms. Ranimol. G of BT department won the ‘All Women’s Project’ in the ‘Tech Top All India Project Competition 2015’ with a cash award of Rs 20,000.



• **Winners of Tech Top 2015**

### ***STUDENT PROJECT GRANTS***

- A team consisting of Celine Thomas and Jaslin James (Mtech,BTE) under the guidance of Dr Ambili. M, project titled “In-silico study of anti cancer activity pigment isolated from actinomycetes” recieved a project grant of Rs 10,000 from KSCSTE.

- A team consisting of Anjali.Soman,Harsha James and Anoop Anto (BTE) under the guidance of Mrs Salini P.J recieved grant of Rs.9000 from Manorama Yuva Master Mind competition.

### ***INTER COLLEGE PARTICIPATION***

- Ms Steny Mary Anto of first year M.Tech Industrial Biotechnology engineering won third prize in All Kerala Youth Innovation Meet at M.A College Kothamangalam.
- Ms Steny Mary Anto of first year M.Tech Industrial Biotechnology Engineering presented a paper in the UGC sponsored national seminar on Recent Advances in Biotechnology at St. Joseph’s College Iringalakkuda.
- Ms Sneha and Ms Sarah of third semester BTE won second prize in the paper presentation competition conducted at Amal Jyothy Engineering College, Kanjirappilly.
- A project team of third semester BTE consisting of Mr Harikrishnan, Mr Franklin and Mr. Linus Agustin was selected for the finals in the “V GUARD big idea business plan contest” on 17<sup>th</sup> & 18<sup>th</sup> of October 2014.
- Ms Anamika (S6 BT) won first prize in Table tennis in PEGSAGA Competition.
- Ms Bhavya (S8 BT) won first in Shuttle Badminton in PEGSAGA Competition

- A group of 12 students of S6 BT attended a workshop conducted at IIT Chennai on 14<sup>th</sup> & 15<sup>th</sup> of March 2015.
- Ms Atteena Andrews and Ms Urmila N Pai, students of 8<sup>th</sup> semester BTE presented a paper titled “Production of Laccase by Solid State Fermentation and its Application in Textile Dye Removal” at the International Conference conducted at Hindustan College of Science and Arts & Institute of Technology Department of Biosciences as a part of “Biosummit-15” at Coimbatore.
- A project group from 6<sup>th</sup> semester BT was selected to the final round of SPARKLE 2015 Design Contest at KPIT Technologies Ltd. and College of Engineering, Pune.

### ***TECHNICAL ASSOCIATIONS***

#### **BEATS**

- On 1<sup>st</sup> June, the BT department released the department journal, Bioquest 2014
- Industrial visit of S7 students to Kerala Solvant Extraction was conducted on 19<sup>th</sup> June 2014.
- On 28<sup>th</sup> June BEATS conducted BIONOVA, a one day workshop for higher secondary school teachers. Dr Oommen V Oommen(Chairman, Kerala Biodiversity Board) and Dr G.M Nair (Dean, School of Biological Sciences, Central University of Kerala) were the invited speakers.



BIONOVA

- Industrial visit of S3 students to Milma,Waynad and SABMiller India Ltd, Chalakudy was conducted from 11<sup>th</sup> to 13<sup>th</sup> of July 2014.
- On July 25<sup>th</sup> BEATS conducted poster making competition in connection with World Embryological Day.
- On July 31<sup>st</sup> BEATS conducted novel idea competition in connection with Nature conservation Day.
- Industrial visit of S7 students to JK agri Genetics Ltd,AP ,Center for dna finger printing and diagnostics and Center for cellular and molecular biology,Hydrabad was conducted in the month of August 2014.
- On October 13<sup>th</sup> and 14<sup>th</sup> the Tech fest PALMARIUS 2014 was conducted. The events were FINMASH (To prove the logical and technical ability), INQUISITIVE (Quiz competition) and POP OUT MODEL (Building of a green city).
- On October 17<sup>th</sup> BEATS arranged the technical talks by Dr. Benny Antony (M.D, Arjuna Naturals Ltd), Mr. Vinod

Manjila(M.D, Double Horse Food Products) and Dr Karthikeyan Shiva shanmugham (Professor, VIT).

- On February 5<sup>th</sup> the department of Biotechnology Engineering conducted a poster making competition in connection with World Cancer Day on the topic “Cancer Awareness”.
- On February 24<sup>th</sup> BEATS arranged an alumni interaction session on the topic ‘Scope of Higher Studies in Foreign Universities’. Sandeep Gopal, Research Scientist, Monash university , Australia and his wife Poornima Sandeep, Business Analyst at Biocon, (2002-2006 Batch alumni) shared their experiences in their respective fields of work .
- In February, the 2013 batch students donated Rs 10,000 towards the construction of a meeting hall at K.V U.P.School, Manakulangara in memory of Late Dona Teres John.
- On 22<sup>nd</sup> April the BT department signed an MoU with Arjuna Natural Extracts Ltd.



MoU with Arjuna Natural Extracts

- A technical quiz on ‘environmental engineering’ was arranged on 29<sup>th</sup> June 2015 as a part of ‘World Environment Day’ celebrations.

#### ***FACULTY EXCELLENCE***

- Mrs Rahna K.Rathnan (BTE) received a grant of Rs 2,00,000/- for the project “Mushroom Cultivation for the Rural Women”.
- Dr Ambili Mechoor (Professor and R & D Coordinator, BTE) received a grant of Rs 80,000/- from KSCSTE for conducting a workshop on Advancements in Fermentation Technology in August 2015.

#### ***PAPER PUBLICATIONS & PRESENTATIONS BY FACULTIES***

- Dr.Ambili Mechoor (Prof&HoD,BTE) published an invited article on “Research in Science” in school magazine of Delhi Public School,Sharja.
- Dr.Ambili Mechoor (Prof&HoD,BTE) delivered an invited talk on “Linking Biochemical Pathways by Molecular Approach” at St Marys College, Thrissur.
- Dr.Leon Ittiachan (Prof,BTE) delivered an invited talk on “ Engineering the Knowledge Economy” at Manipal Institute of Technology,Manipal.

- Dr.Ambili (Prof.&HOD,BTE) delivered a talk on Career guidance at Socorso Convent ,Mala on 31 December.
- Mrs Amitha Joy(Asst.Professor,BTE) presented a paper in the UGC sponsored national seminar on Recent Advances in Biotechnology at St. Joseph's College Iringalakkuda.
- Mrs Rahna.K.Rathnan (Asst.Professor,BTE) presented Business Idea in All Kerala Youth Innovation Meet at M.A College Kothamangalam.
- Mrs Rahna.K.Rathnan (Asst.Professor,BTE) published a paper on "Comparative study of saccharification of fruit waste by mono and mixed fungal cultures "International Journal of current microbiology and applied science", Vol.3, No. 6, 2014[ISSN: 2319-7706].
- Ms Praveena P (BTE), published a paper on "Screening of Efficacy of Various Extracts of Carica Papaya L for Potential Antifertility Activity" in Asian Journal of Pharmaceutical Science And Technology .
- Dr.Ambili Mechoor (BT) attended a wokshop by Kerala Technical University on "Visualising Academics Through Research" on the 31<sup>st</sup> of January.
- Mrs. Marria.C.Cyriac(BT) and Ms. Rosa Ephrem(CE) attended a 3-day workshop on 'Sustainable engineering' during June 18<sup>th</sup> - 20<sup>th</sup> at College of Engineering, Trivandrum.

#### ***WORKSHOPS & TRAININGS***

#### ***ATTENDED BY FACULTIES***

- Mrs Marria.C.Cyriac (BTE) attended a National Science Academies - sponsored 2-day lecture–workshop on the theme "Frontier areas in Biotechnology" organized