

M. Tech Embedded Architecture and Programming now at SBCE

SBCE is now offering M. Tech Programme in Computer Science and Engineering with specialization in Embedded Architecture and Programming. Two other PG programmes and 6 UG programmes are already under the hood.

Genetic Profiling of Kerala Population

People of Kerala, whether Hindu, Muslim or Christian, have close genetic links to European and East Asian populations, says a study conducted by a group of students from the Sree Buddha College of Engineering at Pattoor. The findings would disprove the historical data based theory of Dravidian origin of the Kerala population. The paternal lineage of various non-tribal communities of Kerala showed a mixed genetic origin from East Asian and European populations.

Eleven final year BT&BCE students, guided by Dr. Seema Nair P. (HOD, BT&BCE) did a DNA Profiling (Y-STR) of various communities in Kerala. The project aiming to document the rich human genetic diversity started in 2009 after clearing various medical, ethical and legal aspects and was completed in 2010. Ms. Aswathy G. and Ms. Chippy Jagannath were the research assistants.

New Civil Engineering Block

New block for the Department of Civil Engineering was inaugurated by Prof. K. Sasikumar, (Chairman, Sree Buddha Educational Society) on 13th June 2011. Dignitaries including Prof. V. Prasad (Secretary, SBES), Mr. K.K. Sivadasan (Treasurer, SBCE), Dr. Somi Sebastian (Principal, SBCE) and Prof. B. Vijayakumar (HOD, CE) graced the occasion with their presence.

The new block houses 'state of the art' testing facilities for Environmental, Transportation, Geotechnical, Surveying and Concrete Laboratories.

The new three storeyed building also houses Drawing hall, Seminar hall, Computer Aided Design and Drafting Lab, Faculty rooms, Departmental Library and class rooms for the Department of Civil Engineering.



Prof. K Sasikumar inaugurating the new Civil Engineering Block at SBCE

News from SBCE

Graduation Day Ceremony

The sixth Graduation day ceremony of SBCE was on 9th May, 2011. Dr. M. Jayaprakash (Director, College Development Council, University of Kerala) was the guest of honour. Prof. K. Sasikumar (Chairman, SBES), Prof. V. Prasad (Secretary, SBES) and Dr. Somi Sebastian (Principal, SBCE) also graced the occasion.



Dr. M. Jayaprakash inaugurating the 6th Graduation Day Ceremony at SBCE

Compressed Air Car

Students of final year Mechanical Engineering, Mr. Vipin G Krishnan, Mr. Paul Abraham, Mr. Hari Krishnan S, Mr. Nibu Jose and Mr. Shijin PS designed and fabricated a Compressed Air Car as part of their academic project work. Compressed Air Technology (CAT), being a zero emission technology, has the potential to be the automobile fuel of tomorrow..

SPICMACAY @ SBCE

SPICMACAY chapter of SBCE organized Purulia Chhau Dance, a Tribal Martial Dance form of West Bengal, on 10th February, 2011 in the Asoka Auditorium of SBCE.



Purulia Chhau Dance

Annual Sports Meet

Dr. Somi Sebastian (Principal, SBCE) inaugurated the Annual Sports Meet of SBCE on January 13, 2011.



SBCE Annual Sports Meet - Dr. Somi Sebastian hoisting the meet flag

College Day Celebrations

The College day of SBCE was celebrated on March 26, 2011. The Celebration was inaugurated by Prof. D. Thankamoney. Prof. Thankamoney, a renowned environmental activist, was a Former Member Secretary, KSPCB and recipient of Vrikshamithra(2002), Vrikshasnehi (2002, 2004), Manorama 'Palathulli' (2010) and Swadesi Science Congress (2010) awards.



Prof. D. Thankamoney inaugurating the college day celebration of SBCE

Campus Active Program

The 'Campus Active Programme' has changed its pace from last year. Apart from remedial classes and various club activities, cultural programmes, quiz competitions, dance competitions, games and film shows are being conducted successfully. Every weekday three teachers from various departments stay till dusk for monitoring students in the library and computer centre. Both teachers and students use this time for various types of interactions, activities and experiments.

Gems of SBCE

SBCE congratulates all students who have graduated this academic year, especially the following students who topped from various departments.

Ms. Aiswarya B. Chandran (1st) and Mr. Vishnu Prasad J. (2nd) from BT&BCE.

Ms. Syama Sasi (1st) and Ms. Sreelakshmi A. P. (2nd) from CSE.

Ms. Chippy Vijayan (1st) and Ms. Prabha Pillai (2nd) from ECE.

Mr. Sujith Rajan Thomas (1st) and Mr. Nithin John (2nd) from EEE.

Mr. Srinath S. (1st) and Mr. Raja Mohan and Mr.Georgy George (2nd) from ME.

ASTRAL 2K11 - The War of Intellects

ASTRAL 2K11, the most awaited event of the academic year, was held on 24th and 25th of March 2011. The techfest was inaugurated by Padmashree G. Sankar (*Chairman, Habitat Technology Group*) by lighting the auspicious lamp. The inaugural ceremony was chaired by Prof. K.Sasikumar (*Chairman, Sree Buddha Educational Society*). Other dignitaries including Dr.Somi Sebastian (*Principal, SBCE*), Sri.K.K.Sivadasan (*Treasurer, Sree Buddha Educational Society*) and HODs of various departments also graced the occasion.



Padmasree G. Sankar inaugurating ASTRAL 2K11

The two day program was a perfect blend of technical and cultural events. Enquesta, Paper presentation, Short film, Click it, Best engineer, Best planner, Machine assembly, Nexus, Voice of Astral, Mr and Mrs Astral, Solo dance and Fut-sal were the highlights of 24th March 2011.

Various Expos were also organized on 24th March 2011. Biosol (Biotech side of Life) organised by the Department of Biotechnology and Biochemical Engineering, Aakar (Civil Expo) organised by the Department of Civil Engineering, YemYex (Machine Expo) organised jointly by the Department of Mechanical Engineering and the Department of Electrical and Electronics Engineering were highly appreciated.

An exhibition, on the astrophysics and milestones of Indian Space Research, was jointly organized by the Dept of Electronics and Communication Engineering and Indian Space Research Organisation.

The Department of Computer Science organized a Food Fest in connection with ASTRAL 2K11. More than 30 colleges in and out of the state participated in the program in an active and enthusiastic manner.

On 25th March 2011, Circuit debugging, Debate, C debugging, Machine designing, Choreo video, Treasure hunt and Project expo were conducted.

The highlight of Astral, 2K11 was the PRO SHOW by 'Stephen Devassy and troupe'. The other celebrities of the Pro Show were Anand Narayanan and Remya Vinayakumar.



Stephen Devassy performing during ASTRAL 2K11

Idea, Airtel and Lounge were the main sponsors of the event. Kairali People, Club FM 94.3 and Radio Mango 91.9 covered the event.

Topping all the way

SBCE congratulates the following students who have topped in their respective semesters from various departments.

Ms. Gopika Manohar (BT3), Ms. Siby Geevarghese (BT5) and Aiswarya B. Chandran (BT8) from BT&BCE.

Ms. Neethu Elsa James (CS3), Mr. Prince Shaji (CS5) and Ms. Syama Sasi (CS8) from CSE.

Mr. Nithin V. Sabu (EC3), Ms. Shahana P.N.(EC5) and Ms. Chippy Vijayan (EC8) from ECE.

Ms. Maheswari S. (EE3), Ms. Danly Elizabeth Mathew and Ms. Nisha Prakash (EE5) and Mr. Nithin John (EE8) from EEE.

Mr. Dinesh Kumar U. (ME3), Mr. Dileep Kumar C. (ME5) and Mr. Srinath S. (ME8) from ME.

Ms. Lincy Varghese (CE3) and Ms. Roopa V. (CE5) from CE.

INCANTARE 2010 - '11

CASTELLOS, Department of Civil Engineering and Computers and Structures International (CSI) joined hands to conduct a seminar on the 'Emerging Trends in Computer Aided Analysis and Design' on December 13th, 2010. CSI is one of the major players in the development of software for Civil and Structural Engineering. A team led by Rajiv Sharma of CSI India handled various sessions. Live demonstrations of widely used software like ETABS & SAP turned out to be informative and interesting.



Er. Rajiv sharma of CSI India presenting ETABS & SAP

RTOSA 2011

National seminar on Real Time Operating Systems and Applications (RTOSA-2011) was conducted by the Department of Electronics and Communication Engineering from 30th May to 1st June 2011. The seminar was inaugurated by Dr. V. P. Devassia (*Principal, College of Engineering, Chengannur*). Dr. Somi Sebastian (*Principal, SBCE*) distributed certificates to the participants from various colleges in South India.

TAKSHATI 2K11

'TAKSHATI 2K11' was organised by the Department of Electronics and Communication Engineering on 18th February, 2011. The intra department fest was inaugurated by Prof. B. Somanathan Nair (*Eminent academician and author of a number of books*). A technical session on "Digital Systems" was conducted and the guest of honour chaired the same. Dr. Somi Sebastian (*Principal - SBCE*) released the poster of 'DESTINO', the department journal.



Dr. Somi Sebastian presenting a memento to Prof. B. Somanathan Nair.

NSS Activities

NSS Special Camp from 22nd to 27th January 2011 for the academic year 2010-11 was inaugurated by Principal Dr. Somi Sebastian (*Principal, SBCE*). Life Skill Workshop, Road Safety awareness and Orientation Programme for the volunteers were organized during the camp. Mr. Girishankar (EC4) and Ms. Maya Sivadas (EC4) were selected as the best male and female camp volunteer respectively.

An eye donation camp was organized at PHC Noornadu during which 160 agreement forms fully filled and signed by students and staff of SBCE was handed over to Primary health centre officials.



Dr. Somi Sebastian inaugurating the NSS Special Camp at SBCE



Inauguration of Eye donation camp organized by NSS unit of SBCE at PHC Nooranad

NSS unit of SBCE has associated itself with the Cochin Kidney Foundation, and is providing voluntary units of blood for the economically weak kidney patients on dialysis at Josco hospital, Edappon.

Ms. Arunima S (CS5) attended the 16th National Youth festival at Udaipur from 12th to 16th January 2011 as part of Kerala NSS contingent along with 9 other volunteers from the state. Ms. Nisha Nadeshnan (CS4) & Ms. Veena Gopinath (EC4) attended NSS annual meet at Ilahia College of Engineering Muvattupuzha.

Invited Lecture

Dr. Jency Blesson (AP, BT&BCE) delivered a lecture on 'Cloning and stem cell therapy' at St.Thomas College, Pala on 15th January 2011 in connection with the inauguration of 'Biomics'.

Knowledge Sharing Platform

⇒ BT&BCE

The Department of Biotechnology and Biochemical Engineering of SBCE organised seminars on *Ind. Fermentation technology* (Ms.Anjali T. G.), *Effect of climate change on humans exposure to pathogens and climate* (Dr.Siddharth B) in connection with the Knowledge Sharing Platform at SBCE.

⇒ CSE

Following are the seminars organised by the Department of Computer Science and Engineering of SBCE - *Computer system for expressive music performance* (Ms.Misha Ravi), *Remote PC administration using constrain shortest path* (Ms.Supriya L. P.) and *Mobile networks* (Ms.Soumya M.).

⇒ CE

Seminars on *Ocean colour monitoring using satellites* (Ms.Bilu Susan Babu) was organised by the Department of Civil Engineering.

⇒ EEE

Electrical and Electronics Engineering Department contributed on - *Power quality* (Ms.Praseetha K.) and *Voltage control of SEIG using ELC* (Ms.Sheeba Babu).

⇒ ECE

Seminars on *Nanotechnology* (Ms.Rekha), *3D Transparent transistor* (Ms.Saritha N R), *FGM* (Ms. Ambika S.), *ARM Processor* (Mr. Alex P. George) and *Wireless sensor network* (Mr.Vishnu V S.) were organised by the Department of Electronics and Communication Engineering of SBCE.

⇒ BS

The Department of Mathematics and Basic Sciences presented seminar on *Graph theory* (Ms.Jinu) and *Explosives* (Ms.Raji Sankar).

Achievers!!!

Ms. Sruthi Narayanan (EC4) bagged first prize for *Kadhakali* competition in *Kerala University Youth festival* held at Attingal.

Ms.Nayana Rachel Simon (CS4) got 2nd prize in *English Recitation* in *Kerala University Youth Festival* 2011.

Mr. Rahul Jayaram (CS4) got 'A' grade in *Mimicry* in *Kerala University Youth Festival* 2011.

Mr. Naveen Parameswar and Mr. Cyril Rajan of (EC6) got first prize in *Debate competition* and second prize in *Newscast competition* held at *TKM College of Engineering, Kollam* in connection with CONJURA'11.

Mr. Cyril Rajan (EC6) got second prize in *Just A Minute competition* held at *TKM College of Engineering, Kollam* in connection with CONJURA'11

Mr. Premkumar S. and Mr. Amal Prakash (EC6) secured second position in *Circuit Debugging* competition held at *TKM College of Engineering* in connection with CONJURA'11.

Mr.Arjun S. Unnithan (CS8) got 1st prize in *photography* in Technical Festival conducted by *College of Engineering, Kalooppara*.

Mr.Sarun C.S. and Mr.Kesavadas H. of (EE6) won first prize in *Circuit designing Competition* conducted on *Musaliar College of Engineering, Pattanamthitta* in April 2011.

Book published

Dr. Somi Sebastian (Principal, SBCE) published a book titled 'A laboratory course in Microwave'.

Publisher: Laxmi Publication(2011).

ISBN : 9789380856599

Papers published

Dr. Seema Nair (*HOD*) and *Research Assistants* Ms. Aswathy Geetha and Ms. Chippy Jagannath of *BT&BCE* published a research paper titled 'Y-short tandem repeat haplotype and paternal lineage of the Ezhava population of Kerala, south India' in the *Croatian Medical Journal*, CMJ 2011; 52; 344-350.

Mr. Sudeep. P.V. (*AP-EC*) published Paper entitled 'A number theoretic approach for high capacity data hiding in images' in *AMSE Journal* Vol.53, Issue2, 2010.

Mr. Sanu Krishna S. S. (*AP-ME*) published a paper titled 'Improving the Effectiveness of a Heat Exchanger using Nanofluids' in *International Journal of Applied Engineering Research* (ISSN 0973-4562 Volume 6, Number 6 (2011) pp. 1247-1259).

Poster presented

M. Tech students along with Dr. Seema Nair.P (*HoD*) and Dr. Siddharth Banerjee (*AP*) of *BT&BCE* attended the 11th edition of Bangalore INDIA BIO, International conference at Bangalore from 4th to 6th May, 2011 and presented the following posters.

'Y-STR Haplotype analysis in Kerala Population for Determination of Paternal Lineage' by Dr. Seema Nair, *Research Assistants* Ms. Aswathy Geetha and Ms. Chippy Jagannath and Mr. Robin J. M.

Nutraceutical applications of novel probiotic *Lactobacillus rhamnosus* of human origin by Dr. Seema Nair.P. and Ms. Surya Padmakaran.

'Biotechnology In Validation And Optimisation Of Ayurvedic Asavarishta Fermentations' by Dr. Seema Nair.P, Ms. Chippy Jagannath, Sheela Karalam B and Shiji Bhaskaran.

'Inflammatory response to pyrogens determined by a novel ELISA method using human whole blood' by Dr. Siddharth Banerjee

Paper Presentations & Courses

Dr. Seema Nair P. (*HOD, BT*) presented the paper entitled 'Applications of Biotechnology in food safety –a novel Probiotic bacteria in food preservation' in the International Conference on Recent Advances in Chemical Engineering and Technology (RACET 2011) organised by the Indian Institute of Chemical Engineers -Kochi Regional Centre and the Chemical Engineering

Group of School of Engineering, CUSAT at Kochi on 10th to 12th of March 2011.

Mr. Vaisakh G. (*AP - CE*) and Ms. Sivabala P. (*Lecturer _ CE*) presented 2 technical papers titled 'Dynamic Response of High-rise Structures under the Influence of Discrete Staggered Shear Walls' and 'Effect of Shear Wall Panels on the Dynamic Response of a Silo' at 3rd International Conference on Intelligent Science and Technology at Sun College of Engineering and Technology, Nagercoil on 24th and 25th March 2011.

Ms. Soumya Murali (*Lecturer - CS*) presented a paper on the topic 'A Gen2+ Authentication Protocol' in the International Conference on Emerging Technology Trends at BMCE, Sasthamcotta on 25th and 26th of March 2011.

Mr. Riji N. Das (*AP - CS*) published a paper titled 'A public Transport System Based Sensor Network for Fake Alcohol Detection' in the IAENG World Congress on Engineering 2011 at London from 6th to 8th July, 2011.

Ms. Supriya L.P (*AP - CS*) presented a paper titled 'Data Intensive Cloud Computing' in the International Conference on Emerging Technology Trends at BMCE, Sasthamcotta on 25th and 26th of March 2011.

Ms. Reeba R. (*AP - CS*) presented a paper titled 'Sharp Color Edge Preservation Using HOI' in the International Conference on Emerging Technology Trends at BMCE, Sasthamcotta on 25th and 26th of March 2011.

Assistant Professors (*ME*), Mr. Sanu Krishna S.S. and Mr. Binu B. Pillai presented a paper titled 'Experimental Determination of Thermal Conductivity of Nanofluids' at National Conference on Emerging Trends in Engineering and Technology, organised by Government Engineering College, Kozhikode (GECK) on 25th and 26th of February 2011.

Mr. Binu B Pillai (*AP-ME*) presented a paper titled 'A Study on the Entrepreneurial Opportunities in Ayurvedic Wellness Tourism by Analysing the SWOT with reference to Kerala' at the National Conference (Dames' 11) held at Crescent Business School, Madras.

Mr. Alex V. (*AP, EC*) got the Best Presentation Award for the paper entitled 'GPS assisted Train Anti Collision Device' in International Conference on RAME – 2010.

Mr. Sanu Krishna S. S. (*AP, ME*) attended a 2 day workshop on Research Methodology at NIT Calicut on 4th and 5th of April 2011.

Mr. Sudeep P.V (*AP, EC*), Mr. Mahesh A. (*Technical Officer, EC*) and sixteen students of *M.Tech Embedded Systems* attended the course on VxWorks

RTOS at DOEACC, Calicut from 24th January to 28th January 2011.

Assistant Professors (CS), Ms. Reeba R and Ms. Supriya L.P., participated in the National Seminar on Digital Image Processing at Mount Zion College of Engineering on 12th March 2011.

Ms. Minu Lalitha Madhavu (AP, CS) and Ms. Priyanka (Lecturer, CS) attended a short term training programme in Open Source Tools in Engineering Design And Documentation from 16th to 21st May at College of Engineering, Karunagappally.

Ms. Praseetha K (AP, EEE) attended a short term course 'ANSTE 2011' on advances in numerical and statistical techniques for engineers at NIT Calicut from 30th May 2011 to 3rd June 2011.

Lecturers (BT), Ms. Asha Rani V. S. and Ms. Anju B. I. attended a workshop on 'Virtual labs in Physical and Chemical Sciences' at Amrita Viswavidyapeedam, Karunagappalli on 7th January, 2011.

Certifications

Mr. Vaisakh G. (AP, CE) and Mr. Binu B. Pillai obtained 'Dale Carnegie International Certification for Teachers and Trainers' on High Impact Teaching Skills.

Mr. Vaisakh G. (AP, CE) and Mr. Binu B. Pillai also obtained 'Mission 10X Certification' from Wipro.

News from SBCEW

College Day celebrations

The College day celebrations of SBCEW were held on 17th and 18th March 2011. The renowned poet Sree Kureepuzha Sreekumar was the Chief Guest. The function was preceded by very colourful cultural program organized and presented by the students and followed by a Musical afternoon by the Music Troupe 'SARANG' from Pathanamthitta.

Annual Sports Meet

The Annual Sports competitions were held in the college between 15th and 18th February 2011. There was enthusiastic and overwhelming participation of the students in various events. Games like Shuttle Badminton and Table Tennis were big crowd pullers.

Christmas Celebrations

Christmas was celebrated at SBCEW Hostel on December 22, 2010 with all pomp and gaiety. Besides melodious Christmas carols and delicious Christmas cakes, the occasion proclaimed the message of peace and joy through various programs.

MoU signed

Prof. K. Sasikumar (Chairman, Sree Buddha Educational Society) signed a Memorandum of Understanding with Faith Infotech, of Technopark Trivandrum for training the students of SBCEW for better placement.

A batch of 39 students had already availed training for a week at Faith Infotech campus at Technopark Trivandrum.



MoU signed between Representatives of SBCEW & Faith Infotech

REIEEZ Inaugurated

REIEEZ, the Association of students of Applied Electronics and Engineering and Electronics and Communication Engineering was formally inaugurated on February 11, 2011. The key-note address was given by Prof. B. Premlet (Professor, Department of Basic Sciences, TKM College of Engineering, Kollam).



Prof. B. Premlet inaugurating REIEEZ at SBCEW

Achievers!!!

Students from SBCEW bagged the second prize in Group Dance in MG University Youth Festival 2010 conducted from 28th to 31st January, 2011. A few of our students got the 'A' Grade in various items.

Paper Presentations & Courses

Mr. Harish Kumar V.C (*Lecturer, EE*) presented a paper on 'Finding Solutions to cutting stock problems' in the International conference on "Recent Innovations in Technology", held at Rajeev Gandhi Institute of Technology, Kottayam from 10th to 12th of February, 2011.

Ms. Alphy Firoz, Ms. Ashina K. K. and Ms. Silpa V. P. of *fourth semester (AE)* presented a paper on 'Process Automation' in the District Level Competitions conducted by KSEB at Pathanamthitta on 24th February 2011.

Mr. Manoj P Simon (*HoD, AE*) attended the national seminar 'Digital Image Processing' organized by Mount Zion College of Engineering, Pathanamthitta on March 12, 2011.

Mrs. Bindu P.V (*HoD, EC*) attended the national seminar 'Digital Image Processing' organized by Mount Zion College of Engineering, Pathanamthitta on March 12, 2011.

Mr. Manoj P Simon (*HoD, AE*) also attended the National Seminar "Issues in Digital Image Processing" organized by MEPCO SCHLENK College of Engineering, Sivakasi, Tamilnadu on March 19, 2011.

Mr. Shankar N (*AP, AE*) attended the DRDO sponsored workshop on "Recent Trends in Intelligent System Security Design using Lab VIEW" organized at Noorul Islam University, Nagercoil, Tamilnadu on 28th and 29th April, 2011.

Orientation Program for Teachers

A two-day Orientation Program was organized in the college on 14th and 15th June 2011 for the newly joined members of the faculty utilizing internal resources. Dr. V. Ajaykumar (*Principal, SBCEW*) took a session on 'Best Practices in Engineering Education'. Dr. K.I. Koshy (*Vice Principal, SBCEW*) led a session on 'Learning Preferences and Teaching Methodologies'. *Assistant Professors* of SBCEW, Dr. Subha P. V. and Ms. Asha V., took classes on 'Effective Teaching' and 'On Question Paper Setting' respectively.

SPICMACAY @ SBCEW

A West Bengal dance Troupe from Purulia District of West Bengal presented the 'Purulia Cahu Nritya' dance form at SBCEW. It was a novel and wonderful experience to witness this new dance form. The dance performance was jointly organised by SBCEW and SPICMACAY.

Doctorate Degree

Ms. Subha P. V. (*AP*) of the *Department of Basic Sciences and Mathematics* was awarded Ph.D. degree by Mother Teresa University, Kodaikanal. Dr. Subha successfully defended her doctoral dissertation on April 9, 2011.

NSS Activities

The NSS Unit of the college organized a Special Camp at Pookaitha Colony of Mezhuvvely Panchayath from 11th to 17th of February, 2011. The objective was to create awareness on environmental protection. The NSS volunteers took the initiative to clean the village pond and the surrounding areas. They got whole hearted support and cooperation from the residents.



NSS Volunteers of SBCEW during the Special Camp at Pookaitha Colony of Mezhuvvely Panchayath

Career Counselling for Higher Secondary students

A Career Counselling Program was organized on January 15, 2011 for students of 12th standard from Higher Secondary Schools in and around Elavumthitta. More than 150 students attended the program, which was well received and appreciated by both the participants and their parents.

Editorial Board

Chief Editor: Mr. Vaisakh G. (CE)

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