Sree Buddha College of Engineering, affiliated to Kerala Technological University, has been a centre par excellence in technical education. The sermons of Lord Buddha gave us a lead to be the flowers of exaltation. The primary objective is to promote education and research in the field of technology and to replenish the skills that get lurked in the budding technocrats. Each and every member in the family of SBCE pushes themselves to set the institution as an example to the world. Founded in 2002, Sree Buddha College of Engineering follows the cardinal teaching of Lord Buddha for educating the whole generation imbued with real values of life. The college focuses on the overall personality of students, empowering them to face future challenges. The college has excellent infrastructure, well equipped laboratories with modern instruments to ensure world-class education, and has qualified & well experienced faculty. Situated at Pattoor near Pandalam, a rural area of immense scenic beauty, the college is located in a lush green and picturesque landscape spread over an area of land overlooking a panoramic lagoon bordered by hillocks. The environment friendly and serene atmosphere of the campus provides a refreshing ambience for the mind and soul.

VISION
To create professionally competent engineers with human values and social commitment.

MISSION

- Offer well balanced curriculum with student-centric approach.
- Encourage students to participate in innovation, lifelong learning and research.
- Impart ethical and human values focusing on rural needs and sustainability.

SMART INDIA HACKATHON 2019 GRAND FINALE AT SREE BUDDHA COLLEGE OF ENGINEERING

The Inaugural Session of Smart India Hackathon 2019

Smart India Hackathon- 2019, the 36-hour non-stop coding challenge was held at 48 nodal centres across the nation on March 2-3, 2019. Sree Buddha College of Engineering Pattoor, a nodal centre in Kerala witnessed the coding extravaganza of 27 teams battling over 8 problem statements put forward by 03 industry partners; Cisco Devnet, Thermo Fisher and Amadeus Software Labs. The Hackathon was inaugurated by Prof. K Sasikumar, Chairman, SBCE.

Participants of Smart India Hackathon 2019

The event witnessed the participation of engineering students and their mentors from various AICTE affiliated Engineering Colleges in the country who were competing to solve problem statements from the Complex and Complicated cadre. Team Ferozepurwale from the Indian Institute of Technology, Bombay bagged a cash prize of Rs. 1 Lakh from CISCO Devnet for their techie solution for Securing and Increasing Productivity of BYOD. The out of the box solution for Security Camera powered with Machine Learning developed by Team Kamikazey from Thapar Institute of Engineering and Technology and the creative expertise by the Team Champion_Sam from IIT Bhubaneshwar on Digital Public announcement and Chatbot, also bagged respective prize money of 1 Lakh each from the CISCO Director, Dr. Anil Nair.

Team whack1 from Bharati Vidyapeeth`s College of Engineering

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fective solutions to overcome the uncertainties of general data protection rights in personalization experiences. Both the teams were awarded Rs. 75,000 by the jury from Amadeus Software Labs.

The program evinced live video conferencing by the Hon`ble Prime Minister Shri Narendra Modi. AICTE Director, Dr. Ramesh Unnikrishnan appreciated Ms. Anuja Kanhare, the SIH Coordinator and Mr. Gopu Darsan the SPoC from Sree Buddha College of Engineering for their commendable efforts in the overall coordination of the event. The participation certificates were awarded to the respective teams by SBCE Chairman Prof. K Sasikumar, Principal Dr. S Suresh Babu and Dr. Anil Nair, Director- CISCO in the presence of Shri. KK Sivadasan and other management representatives. The winning teams and the student and staff coordinators of SBCE were all praised and congratulated by the college management and the Principal for the successful conduct of the program.

SBCE BECOMES A NBA ACCREDITED INSTITUTION

The Sree Buddha College of Engineering, Pattoor is currently an NBA Accredited Institution. The National Board of Accreditation (NBA), India was initially established by AICTE (All India Council of Technical Education) under section 10(u) of AICTE act, in the year 1994, for periodic evaluations of technical institutions & programs basis according to specified norms and standards as recommended by AICTE council. NBA in its present form came into existence as an autonomous body with effect from 7th January 2010, with the objective of Assurance of Quality and Relevance of Education, especially of the programs in professional disciplines". The purpose of the accreditation by NBA is to promote and recognize excellence in technical education in colleges and universities—at both the undergraduate and post graduate levels. Institutions, students, employers, and the public at large all benefit from the external verification of quality provided through the NBA accreditation process. They also benefit from the process of continuous quality improvement that is encouraged by the NBA's developmental approach to promote excellence in technical education. The Accredited Programmes are as follows

Level	Programme(s) Name	Accreditation Status	Validity
Under Graduate	Biotechnology & Biochemical Engg.	ACCREDITED	Academic Year 2019-20, 2020-21 and 2021-22, i.e., upto 30-06-2022
Under Graduate	Civil Engg.	ACCREDITED	Academic Year 2019-20, 2020-21 and 2021-22, i.e., upto 30-06-2022
Under Graduate	Computer Science & Engg.	ACCREDITED	Academic Year 2019-20, 2020-21 and 2021-22, i.e., upto 30-06-2022
Under Graduate	Mechanical Engg.	ACCREDITED	Academic Year 2019-20, 2020-21 and 2021-22, i.e., upto 30-06-2022

NBA Accredited Departments in SBCE

3- DAY NATIONAL WORKSHOP ON "REVISED ASSESSMENT AND ACCREDITATION FRAMEWORK OF NAAC"

Internal Quality Assurance Cell (IQAC) of Sree Buddha College of Engineering organized a National workshop on "Revised Assessment and Accreditation Framework of NAAC" on 17-19th January 2019. The workshop was opened with the welcome note by Dr. Manoj Narayanan Secretary- IQAC in the inaugural session at 9.30 am on 17.01.2019. Dr. S. Suresh Babu, Principal & Chairperson- IQAC explained about the workshop. In his speech, he mentioned about the various programs organized in SBCE to promote awareness about the quality enhancement. The felicitation address was given by Shri. K. K. Sivadasan, Treasurer, Sree Buddha Educational Society. Dr. K. G. Satheesh Kumar, Professor, Amal Jyothi College of Engineering, Kottayam inaugurated the workshop and Dr. M. S. Senthil Saravanan, Coordinator - IQAC delivered the Vote of Thanks.

Inaugural Session

During 1st session after inauguration, Dr. K. G. Satheesh kumar delivered a plenary talk on IQAC and Accreditation. He explained about the criteria 3, 4 and 5. In the afternoon, Dr.Saji Varghese, NBA Coordinator of SBCE delivered speech on Outcome Based Education. In his speech, the need of OBE in higher education sector and the advantages of implementing OBE were discussed. Later he gave hands on experience in writing outcomes of the courses offered in Engineering Colleges and explained the mechanism of calculating the level of attainment in each courses. On day two, Dr. Sudhir, Director, Academic Staff College, University of Kerala gave invited speech on Criteria VI and VII. He explained about the documentary details and preparatory work for NAAC peer team visit. In the afternoon session, Dr. Ramesh. U, Director (Regional Centre), AICTE presided over the function and gave plenary talk on the impact of Accreditation on the quality of education served by the institution. The third session was handled by Dr. Sreejith Mohan, Associate Professor, Department of Mechanical Engineering SBCE. It was a hands-on training session for calculating the attainment level for each course. Day three started with a talk by Dr. Suresh Babu, Principal SBCE on preparation of SSR. It was a brain storming as well as training session for the participants. The afternoon session was interaction with participants and the program ended at 3.00 pm with group photo.

Participants - National Workshop

SLATE N PENCIL – TWO DAY WORKSHOP ON INNOVATION, LEADERSHIP AND CREATIVITY

Session by Mr. Arun Jayakumar (Nodal Officer, Mar Baselious College of Engineering, Trivandrum)

Innovation and Entrepreneurship Development Centre of Sree Buddha College of Engineering Conducted a 2-day workshop on Innovation, Leadership and Creativity named as Slate n Pencil on 26 and 27 January 2019 at the civil block seminar hall. The sessions for the workshop was taken by Mr. Arun Jayakumar (Nodal Officer, Mar Baselious College of Engineering, Trivandrum) and Mr. Aneesh (Nodal officer, SNIT Adoor). The participants of the workshop were the IEDC student members of SBCE. The workshop mainly concentrated on the ideation process where students

were given hands-on experience in choosing the proper problem statement and also the process to find a solution to the problem. Students were given an exposure to market surveying and also doing Business Canvas as part of the workshop and were given the opportunity to prepare their own ideation canvas.

DEPARTMENT OF BIOTECHNOLOGY AND BIOCHEMICAL ENGINEERING

NATIONAL TECHNOLOGY DAY CELEBRATION - TECNIKA 2K19

Mr. Anu Karthik addressing the gathering

Department of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering, conducted a one day seminar titled "TECNIKA 2K19" as a part of National Technology Day Celebrations which was duly supported by Kerala State Council for Science, Technology and Environment. The seminar was intended to enlighten engineering students about the educational interventions to build business ecosystem on campus and to engage students as partners, to grow start-up culture. Inaugural session was presided by Dr S Suresh Babu, Principal, Sree Buddha College of Engineering and inaugurated by Dr Anoop Raj J.R, HoD, Department of Biotechnology & Biochemical Engineering. Shri K.K Sivadasan, Treasurer, Sree Buddha Educational Society delivered the felicitation. Resource Persons and

Ms Anju Raj, Programme Coordinator were also present. The Chief guests of the event Mr. Rahul P.B, CEO, Inker Robotics Academy and Research Centre talked on the topic "Innovation and technological entrepreneurship"and Mr. Anu Karthik, Vice President, Operations and Strategy, Inker Robotics Solutions Pvt ltd. discussed about Startup frame work and opportunities in India. He also gave a brief demonstration of Robotics at their own company 'Inker Robotics'.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ONE DAY SEMINAR ON "AWARENESS OF IPR AND ITS RELEVANCE IN RESEARCH

Inaugural Session

The Department of Electronics and Communication Engineering,SBCE in association with Patent Information Center, Kerala/KSCSTE and Internal Quality Assurance cell of SBCE organized a one day seminar about IPR and its significance in research on Tuesday,29th January 2019. The seminar aimed to create awareness about IPR in various levels of research and also elaborated various procedures to be followed for patent filing. The sessions were handled by Dr Jippu Jacob, Professor & coordinator –IPR cell of KSCSTE, Amal Jyothi college of Engineering, Shri.R.S.Praveen Raj, Senior scientist,CSIR-NIIST, Thiruvananthapuram and Shri.Vishnu

V.A, Project fellow,PIC-Kerala,KSCSTE.

Sessiona by Shri R.S. Praveen Raj,Shri Vishnu V.A and by Dr. Jippu Jacob

NATIONAL SCIENCE DAY CELEBRATION - 'NIMITTA' 19

Inaugral Session

The Department of Electronics and Communication Engineering, SBCE, in association with Kerala state council for Science, Technology and Environment (KSCSTE) celebrated National Science Day on Friday 22/02/19.The theme of the program was "Communicating Science for All". It had three different sessions. Technical talk on "Communication Evolution and

Technical Talk by Unni cheruvathoor

Future" by Dr Unni Cheruvathoor, Professor (retired),TKM College of Engineering, Kollam and Ideation, Designing and prototyping of Robots, by Mr Premkumar S.,Sr Electronics Engineer, Sastra Robotics India Pvt. Ltd. and Group discussion competition on the focal theme "Communicating Science for All".

Ideation, Designing and prototyping of Robots, by Mr Premkumar S

Group Discussion Competition

ALUMNI MEET 2K19

Welcome speech - Prof. Pavitha P.P., HoD, Dept. of ECE

The department of Electronics and Communication Engineering organized an alumni meet on 19th January 2019 at Asoka auditorium. The meeting started with a silent prayer at 11 AM. Around 40 alumni members, heads of various departments and faculty members of the department were present in the function. Prof Pavitha P.P., HoD, ECE welcomed the gathering. In the welcome speech she gave an overview about the various activities conducted by the department. The function was presided over by Dr. S. Suresh Babu, Principal,S BCE. In the presidential address he explained the preparations of NBA accreditation process and the importance of alumni contributions for the same. He also explained the significance of getting accredited by NBA for getting job as well as higher studies in foreign countries. He suggested increasing the cooperation of alumni members for the development of the college. The meeting was inaugurated by Sri. K. K. Sivadasan, Treasurer, SBCE. Dr. Saji Varghese, NBA coordinator addressed the gathering and gave a brief description of the NBA activities in the college. Prof. Pradeep Kumar R, Placement officer interacted with the alumni and sought suggestions for improving the placement activities in the campus. Prof. Thomas Mathew, HoD, Dept. of HRD felicitated the gathering. Prof. Vishnu V.S, Secretary, Alumni association delivered the vote of thanks. The inaugural meeting came to an end by 12 pm. After that the alumni members shared their experiences in the industries and suggested some training courses for the students. Some of the members shared their memorable moments of the campus life. After that some of the alumni members interacted with current final year and pre final year students and shared their experience with them.

DEPARTMENT OF CIVILENGINEERING

TWO DAY WORKSHOP ON QUANTUM GIS

Department of Civil Engineering, Sree Buddha College of Engineering, Pattoor organised a two day workshop on open source software, on 'Quantum GIS' for sixth semester students of Civil Engineering on 26th and 27th February 2019. The workshop was conducted in association with Institute of Engineers, India (IEI) and Kerala State IT Mission (KSITM). Resource persons for the training program were consultants of Kerala State IT Mission. 69 students registered and attended the workshop. The coordinator of the two day workshop was Ms. Regi P. Mohan.

Mr. B.K. Jayaprasad from KSDI handling the introductory session

Workshop started with the felicitation from Head of the Department, Dr. Gouri Antherjanam. The classes started by 9.00am with the introductory lecture by Mr. B. K. Jayaprasad, consultant of KSIT. He handled classes on basic concepts of GIS – its overview and application areas of the software. Another Trainer Mr. Tanish Brown, gave introduction on Kerala State Spatial Data Infrastructure (KSDI) and Kerala Geo portal. Ms. Kala Raj took classes on web and mobile GIS applications, spatial analysis of data etc.

HoD Dr. Gouri Antherjanam with the Trainers and Coordinators

After lunch, students were introduced to practical sessions on using the software, various tool bars, creating different features, Georeferencing, projection, attribute entry, spatial analysis, lay out generation and exporting for publication etc. Practical sessions continued on the second day also. It ended by 4.00pm on 27th February with the valedictory function. Certificates were also distributed.

Participants of the workshop with Trainers, HoD and Coordinators

TWO DAY TRAINING PROGRAMME ON "ADVANCED STRUCTURAL HEALTH MONITORING AND ITS EXPERIMENTAL APPLICATIONS"

The Department of Civil Engineering, Sree Buddha College of Engineering, Pattoor organized a two day training programme on "Advanced Structural Health Monitoring And Its Experimental Applications " from 29th to

Practical Session of the workshop

30th April 2019. Dr. Gouri Antherjanam, Head of The Civil Engineering Department, formally inaugurated the session. Ms Ritzy R, Assistant professor Civil Engineering Department coordinated the workshop. The target group was first year PG students . 24 PG students of our college attended the training programme. The resource person was Dr. Akash Rajan, Vibration Analyst CEO, Tyrannus Innovative Engineering & Research Academy (TIERA) CET-TBI College of Engineering Trivandrum. The trainer handled analytical and experimental sessions on application of LAB View software in concrete testing. The course was highly beneficial for PG students for planning ahead their project work and enhancing their research capabilities.

Participants of the workshop with Trainer

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

WORKSHOP ON WEB APPLICATION DEVELOPMENT USING NODE JS

Handson Workshop on NodeJS by Mr. Anish S. Nair,CEO, Logix Space Technologies

A One-day symposium titled 'WORKSHOP ON WEB APPLICATION DEVELOPMENT USING NODE JS' was organized by the Department of Computer Science and Engineering of SBCE on 20.03.2019. This workshop was conducted in association with ICFOSS off the job training scheme at Project Lab, Computer Science Block. The event was officially inaugurated by Dr. S V Annlin Jeba, Head of Dept. CSE. The resource person for the session was Mr. Anish S Nair, M/s. Logix Space Technologies. Pvt. Ltd. Pandalam, Alappuzha.

WORKSHOP ON WEB APPLICATION DEVELOPMENT USING PYTHON FLASK

An One day symposium titled 'WORKSHOP ON WEB APPLICATION DEVELOPMENT USING PYTHON FLASK was organised by the Department of Computer Science and Engineering of SBCE on 23.02.2019. This workshop was conducted in association with ICFOSS off the job training scheme at our Net Lab. The event was officially inaugurated by Dr. S V Annlin Jeba, Head of Dept. CSE.

Handson Workshop on PYTHON FLASK by Mr. Anish S. Nair,CEO, Logix Space Technologies

The resource person for the session was Mr. Anish S Nair,CEO,Logix Space Technologies. Pvt. Ltd. Pandalam, Alappuzha.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

TWO DAY WORKSHOP ON ELECTRICAL CIRCUIT DESIGNING IN ASSOCIATION WITH AUTOCAD ENGINEERING SOLUTIONS

Participants

As part of the Electrical Department Association activity, Department of Electrical and Electronics, Sree Buddha College of Engineering, Pattoor in association with AutoCAD Engineering Solutions Pvt. Ltd., Chengannur organized a two day workshop on "ELECTRICAL CIRCUIT DESIGNING" on 11th and 12th February, 2019 at Seminar Hall,

EEE Block. Department association faculty in charge Asst. Prof. Chama R Chandran welcomed the gathering. Mr. Midhun, Central Manager conducted the sessions. The workshop was conducted for final year UG and PG students. It gave an insight to Autodesk EAGLE software. In this competing environment, apart from an Engineering degree every company is looking for an additional certificate course for their candidates. In this regard, our department has organized such an event to add an additional course for the students. Around 26 students participated in the workshop.

10TH SEMINAR COMPETITION BY KSEB ENGINEERS ASSOCIATION

Inaugural session

KSEB Officers Association jointly with Sree Buddha College of Engineering organized the 10th Seminar series on 25 March 2019. Er James M David, Chief Engineer inaugurated the seminar series. Dr. S Suresh Babu, Principal presided over the function. Er George Mathew, Chief Engineer, Koodamkulam Power High way, KSEB, Sri K K Sivadasan, Treasurer, Sree Buddha College of Engineering, Er Sreekanth, Er Anil Kumar, Er Rajesh spoke on the occasion. Around 25 selected teams from every district participated in the presentation

DEPARTMENT OF MECHANICAL ENGINEERING

RAME 2K19

The Department of Mechanical Engineering organized a National Conference entitled "Recent Advances in Mechanical Engineering (RAME 2019)" as a part of the Third Annual Series of the E2F2'19 (Engineering Education for Facing the Future) Conference of the Sree Buddha College of Engineering, Pattoor on 16th May 2019. This was a platform for academics, industrial experts, researchers and students to present their projects and research findings and involve in active discussion. The number of full papers received was 35 and 33 papers were accepted for presentation. The number of papers registered for the conference is 32 (9 external + 23 internal) and all papers were presented on the day of the conference. The conference was evaluated by a team of experts which included Dr. Anoop Raj, Dr. Trijo Tharayil, Dr. J B Sajin, Mr. Renjith Raj R, Mr. Venugopal N, Mr. Amjith T R, and Mr. Prasanth from Sree Buddha College of Engineering, Pattoor. The conference started with an introduction and followed by a welcome address. The time allotted for each participant was 15 minutes. There were papers from various areas of Mechanical Engineering. Two best papers were selected by the evaluation team and they were presented with a best paper certificate. The best paper awards were given to Mr. Akhil S S and team of Sree Buddha College of Engineering (Title: Roofing Sheets Using Biomaterial) and Mr. Kiran George Thomas and team of Mar Athanasius College of Engineering, Kothamangalam (Title: Design and Development of an Automatic Ironing Machine). Similarly, certificates were issued to those who presented the papers and the co-authors of the respective papers.

STUDENT ACHIEVEMENTS

A team of Mechanical Engineering students (Batch 2015-2019) developed a GoKart with the financial support from college. The Kart was fabricated under the guidance of Dr. M. S. Senthil Saravanan and Dr. Sreejith Mohan, Faculty members of Mechanical Engineering department, SBCE. The name of the GoKart team is CLUTCHLESS and went for National level competition named "All India GoKart Design Challenge" held on 22nd to 27th February 2019 at Buddh International Circuit, Greater Noida, Uttar Pradesh. Gokart team was led by

Mr. Pranav. A, Mr. Mohamed Faiz, Mr. Akhil, Mr. Achyuth, Mr. Midhun, Mr. Sreeshankar and Mr. Akshay. The team CLUTCHLESS won the first prize in Endurance tests (Racing) and secured 6th position in Overall championship with Cash price Rs.15000/- GoKart from Sree Buddha College of Engineering, Pattor is the fastest GoKart under 150cc category in India

QUAD BIKE DESIGN CHALLENGE-2019

The third and fourth-year Mechanical Engineering students designed and fabricated a Quad bike and participated in the Fourth season of National level "Quad Bike Design Challenge" competition organised by FMAE (Fraternity of Mechanical and Automobile Engineers) during 14th to 18th of March at Hyderabad. The bike powered with a 200 cc engine can deliver an output of 23N-m at a top speed of 60km/hr. The All-Terrain category vehicle was designed to handle a wider variety of terrain than most other vehicles. The project was completed within a month duration in the department project lab. On behalf of the institution the flag off ceremony was presided by Sri.K.K.Sivadasan, Treasurer, SBES, along with Principal Dr.S.SureshBabu. Prof. Sreekumar E.N. and Prof. Vaisakh P.S. gave proper guidance for designing the Quad Bike. Dr.Saji Varghese, HoD, ME, Prof. Anilkumar A .V, Prof. S.Sreekumar, Prof. Venugopal N., Prof.Prasanth V. also attended the flag off ceremony. The 25 member Quad Bike team" Raptors "was led by Mr. Harrison T M and Mr. Anandakrishnan Nair of S6 ME.

SBCE - SAE INDIA COLLEGIATE CLUB

Heartiest congratulations to our members Anathakrishnan Nair and Madhava Chandran of S6 Mechanical, for securing third prize in national level welding competition held as a part of SAEINDIA student convention 2019 at Bannari Amman Institute of Technology, Sathyamangalam

"PRAYAANA"-CAREER QUEEN SUMMIT 2019 CONGRATULATING PRAYAANA FELLOWS OF SBCE

Prayaana is the first of its kind EMPLOYABILITY, ENTERPRENEURSHIP and INNOVATION lab for women in Kerala. Sree Buddha College of Engineering is a part of it and encourages women to actively participate in various venture of prayaana related to women empowerment. We have a group of students who are members of prayaana, they are trained and molded to plan their career by established women entrepreneurs in Kerala. The prayaana fellows of SBCE have shown excellent performance in all the activities of pryaana bringing name and fame to the institution. As a part of Women's day celebration "career Queen Summit 2019" Sree Buddha College of Engineering received three awards.

- Campus with highest number of Social impact stories.
- Hub with highest number of Prayaana fellows in 2018.
- The best ambassador - Ms. Sruthi.S of final year Electronics and communication department.

It was a great opportunity to receive it from none other than Dr.Tessy Thomas, "The missile woman of India". "We as an Institution congratulate all the award winners and Proud of It"

STAFF ACHIEVEMENTS

- Ms. Shamnamol G.K., AP, BT&BCE received Best paper award for the paper titled "Microwave assisted biodiesel production from fish oil: two step process"; 4th International Conference on Bioenergy, Environment and Sustainable Technologies (BEST2019) held at Arunai Engineering College, Tiruvannamalai, Tamilnadu, India during January 28-30, 2019.
- Ms. Shamnamol G.K., AP, BT&BCE received Best paper award for the paper titled "Preparation and characterization of activated carbon from Aegle marmelos fruit Shell for fluoride removal"; 4th Kerala Technological Congress-KETCON OF KTU TECHFEST 2019 jointly organized by KTU &KSCSTE at Govt. Engineering College,Trichur during 15-17 February 2019.
- Mr. Renjith Raj R , AP, ME qualified the Energy Auditor and Manager exam conducted by Bureau of Energy Efficiency, Govt of India.
- Mr. Amjith T R receives Special Appreciation Award from Chief Minister Mr. Pinarayi Vijayan for Coordinating the flood relief activities of NSS Technical Cell in Alappuzha district

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