



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
Name of the head of the Institution	K. Krishnakumar
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0479-2375442
Mobile no.	9447266626
Registered Email	sreebuddha@ktu.edu.in
Alternate Email	principal@sbce.ac.in
Address	SREE BUDDHA COLLEGE OF ENGINEERING, NOORANAD
City/Town	ALAPPUZHA
State/UT	Kerala
Pincode	690529

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr. M. S. Senthil Saravanan			
Phone no/Alternate Phone no.		04792375442			
Mobile no.		6369282379			
Registered Email		sbceiqac@gmail.com			
Alternate Email		me.senthils@sbcemail.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://sbce.ac.in/			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://sbce.ac.in/academics/academic-calendar/			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.58	2014	10-Dec-2014	09-Dec-2019
2	B+	2.64	2019	15-Nov-2019	14-Nov-2024
6. Date of Establishment of IQAC			06-Sep-2008		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

RESEARCH METHODOLOGY AND SCIENTIFIC WRITING	29-Jun-2020 3	215
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Blended learning Research promotion

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achievements/Outcomes
Faculty development Program on Research Methodology	Successfully conducted a State level program on Research Methodology and Scientific Writing.
National Conference	IQAC Supported the departments to conduct a National conference in July
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	25-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Cloud based Enterprise Resource Planning (ERP) Software for automation of academic and non academic processes is used in the institute to maintain and analyze the data related to various processes of institute. List of modules currently operational in the ERP software is as follows: 1. Faculty Profile 2. Students database 3. Teaching plans 4. Time tables (Academic/Class and Personal) 5. Experiments schedule 6. Attendance monitoring 7. Examination schedule 8. Class assignments record 9. Question bank preparation 10. Syllabus coverage monitoring 11. SMS to the parents and students 12. Faculty feedback by students 13. Icard generation 14. Roll call list generation 15. Subject allotment and accessibility authority (Faculty, GFM, Head) 16. Variety of reports pertaining to academic monitoring can be printed

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Sree Buddha College of Engineering precisely plan the effective implementation of curriculum. The mechanism adopted in SBCE is as follows Planning for the Academic year Institution prepare academic calendar in line with the academic calendar prescribed by the University which consist of all academic and non-academic activities in detail. Allocation of subjects/Timetable Preference was

given to students to decide their choice to finalise and plan in advance for the electives. As per preference of subject, HOD assigns the faculty member as per their qualification and expertise and the subject distribution is communicated to the faculty member well in advance for proper preparation. Timetable is prepared as per the availability of infrastructure and shift of faculty member which is approved by authorities. The approved Time table is displayed on notice boards and college website prior to commencement of new term. Preparation by each faculty member: Once the subject is allotted to the faculty member, they prepare teaching plan and course file as per the departmental academic planner. Lab manuals are prepared for each subject by the respective subject in charge along with important oral questions. Academic Monitoring Committee: A senior Faculty Member (GFM) is appointed for each class to monitor day to day conduction of time table and academic planner. Daily attendance is monitored by each faculty member and defaulter students with poor attendance are identified. Parents of such students are informed by telephone and SMS alerts, if required counselling is done Advisors. HOD takes feedback of the faculty twice in a semester from students and analysis is done by GFM. If feedback is poor, then corrective measures are advised by HOD and Principal. Faculty member meetings are held every week by the HOD to take academic review and suitable remedial measures are advised if necessary. Resource Planning: Instruments which require repair or are obsolete are identified. Yearly budget is prepared based on consumables and equipment and planned lab wise and submitted to "Purchase Committee" to call for quotations. Comparative statements are prepared to release requisition for each item. After receipt of these, demonstration is arranged to check satisfactory operation and test report is prepared. Selection process of final year projects: Project coordinator is assigned to final year students who assign project guides to these student groups as per area of specialization of the faculty member. The students are encouraged to get company/college sponsored projects with innovative idea. Projects with market potential are considered and supported for development of new start-ups

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicability) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Biotechnology	01/08/2019
BTech	Computer Science and Engineering	01/08/2019
BTech	Civil Engineering	01/08/2019
BTech	Electronics and Communication Engineering	01/08/2019

BTech	Electrical and Electronics Engineering	01/08/2019
BTech	Mechanical Engineering	01/08/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	346	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Life skills	01/08/2019	560
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Electrical and Electronics Engineering	29
BTech	Biotechnology	Nil
BTech	Electronics and Communication Engineering	10
BTech	Computer Science and Engineering	73
BTech	Civil Engineering	18
BTech	Mechanical Engineering	80
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained
<p>Self-assessment provides feedback regarding the strengths, weaknesses, opportunities and threats relevant to quality assurance within the institute. Quality assurance framework within the College involves all the administrative and teaching wings of institution. The IQAC provides useful insights for the purpose of improvement in all aspects of curricular design and development. Student's Feedback: This feedback collects students input on design of curriculum, incorporation of current area of subjects and design careers. Student's evaluation of their learning experience is an integral and necessary component of any quality assurance system as adopted by universities and colleges as it allows the institution to evaluate how its service provision is</p>

viewed by its most important group of stakeholders, namely its students.

Alumni's Feedback: This feedback obtains the inputs from the alumni on the quality of the graduates. This helps us to assess the extent of attainment of the programme outcomes. Alumni feedback was collected from all participating alumnus during Alumni meet and through e-mail.

Employer's Feedback: The purpose of the feedback is to obtain the employers input on the quality of the graduates. The student's ability to handle the professional situations and knowledge acquired during their learning can also be assessed. The feedback from recruiters was collected manually and electronically.

Teacher's Feedback: The purpose of the feedback is to obtain the teachers input on the overall educational environment prevalent in the college. The feedback pertaining to curriculum design, assessment patterns, research policies, and overall working environment were collected online and manually by NAAC during an academic year.

MODE OF FEEDBACK COLLECTION: Online feedback through Google form link and offline submission through printed questionnaires. Also appreciation letters and e-mails were also analysed.

FEEDBACK ANALYSIS Data collected from various stakeholders will be analysed by assigned faculty and the scores to be submitted to Head of institution for compilation of data.

FEEDBACK REVIEW RECOMMENDATIONS On the basis of the feedback received from various stakeholders, the feedback co-ordinator will compile the final observations (includes departmental average and institutional average) and put forth for further action by respective program committee.

ACTION TAKEN On the basis of feedback review and recommendations given by program committee, the final action/ resolution to be taken by head of the institution.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Nil	540	286	286
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	796	100	90	5	10

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
105	91	12	12	12	12
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Most of the students studying in the institution lack the motivation and competitive mentality that are found in city-bred students. The advisors have taken up the challenge of motivating the students to bring about a change in their attitude. Problems of the students are identified by analyzing their marks, attendance, class performance, behaviour and attitude, etc and suitable adjustments are made in the form of counselling, remedial classes, parent-teacher interaction, etc. The first year students are in a transition stage from 2 to technical education. Besides, they come from a system different from the one being followed in technical institutions in terms of subjects, schedule, problems related to discipline etc. Therefore, a co-ordinator is posted to monitor the functioning of the first year classes separately Each group of around 20 students is allotted to a class advisor in the first year itself, So that each class has 3 advisors, with one of them given the overall responsibility as senior advisor. These advisors will be with the students for the rest of their degree course in the institution. Besides these three advisors, the first year students also have a class teacher who takes classes in the first year subjects. The advisor collects and regularly updates all the personal, academic and extracurricular/ co- curricular activity details of each student in their group in an advisory file. The advisor also keeps track of the student by collecting feedback from other teachers, parents and classmates. The advisor publishes a monthly attendance report prepared with the details collected from the class register to keep a check on absenteeism. They consolidate the series exam marks and prepare the corresponding result-analysis to gauge the academic progress of students individually, class-wise and subject – wise. The advisor also consolidates the internal marks required for submission to the university. The advisor acts as a mentor and guide to their group of students. They provide counseling to the students who have problems in academics or other areas. Thus, there is a deep bond between the advisor and student. There are monthly advisory meetings between the advisor and group where the students are free to express their views regarding classes, teachers, college facilities, etc. The advisor gives solutions to problems, if any, when possible and refers them to higher authorities. A report of the meeting is given to the HOD and most problems are solved at the departmental level, if not, forwarded to higher authorities. The parent and advisors keep in touch with each other on a regular basis. Besides, PTA meetings are conducted twice or thrice in a semester. The student, parent and advisor work together for the student's academic progress and personal development. The feedback about members of faculty, courses, infrastructure etc. is collected from students at regular intervals. The students having difficulty in any subject are given remedial classes as and when required. The brighter students are given enrichment courses and motivated to achieve higher levels of excellence

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1377	105	1:13

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
105	105	Nil	Nil	15

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end
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No Data Entered/Not Applicable !!!

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution continuously monitors the changes that are happening at the university level and makes appropriate effective changes in the internal evaluation system with each scheme change for UG programs and the same procedure is adopted for PG programs. All the changes are informed to the students through interactions circulars with utmost transparency Continuous Semester Evaluation • Two series tests and one model examination in theory courses and one model examination in case of practical are conducted in each semester. • The department will carry out internal assessment on all subjects based on internal test performance and evaluation of assignments of the students. • Continuous evaluation procedure is followed for practical courses. Internal assessment is based on continuous evaluation marks and end semester model examination marks as stipulated by APJ Abdul Kalam Technological University. • Effective implementation of evaluation reforms of the university are strictly followed and the own initiatives of the institution are ensured by strict compliance of process and procedure suggested by the university. The Institute has taken the following measures for the effective implementation of the evaluation reforms introduced by the University: • The Institute has exam cell coordinators from each department for the smooth conduct of examinations. • The examination committee meets periodically to discuss all the examination related matters. • At Institute level, effective implementation of tutorials and internal tests takes place. • The students can see their evaluated answer sheets and discuss the same with concerned faculty. Internal tests ,based on the university syllabus are in the form of questions of graded nature. • All the evaluation data are collected and stored in digital format for recovery/reference purpose. • Comprehensive Viva and oral exams are conducted by relevant academicians and industry personal. Practical examinations are conducted based on the syllabus prescribed by the APJA-KTU. • For smooth conduct of University theory examination, an internal squad comprising of senior faculty members are appointed. • The faculty publishes attendance and marks of the students periodically. The Institute sends its faculty members to the CV Camps as examiners to evaluate semester examination answer scripts. • The regulations, and syllabi of all the programmes offered by the Institute are available in the Institute and affiliated University website. During the Induction program the newly admitted students are updated about the attendance and pass mark requirements and the grading systems for the internal and university examinations. Whenever the students are in doubt, they are encouraged to clarify them by discussing with the teachers.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institution strictly adheres to the academic calendar prepared by it with respect to the conduct of Continuous internal evaluation. An academic calendar is prepared by the institute as explained below. Academic year starts as prescribed by APJ Abdul Kalam Technological University. The university publishes in advance, the academic calendar containing plans for curricular and co-curricular activities based on the available working days as per university norms. The KTU coordinator of the college prepares the tentative College academic calendar in concurrence with the University calendar. The prepared academic calendar is placed in the Academic Council Meeting (ACM) for their feedback/suggestions. After incorporating the required suggestions, approval for the same is given by the Principal. The academic calendar is circulated to all faculty, students and also uploaded in the college website for information

compliance before commencement of the semester. The academic calendar is strictly followed except in extraordinary situations like declaration of unforeseen holidays. Lesson plans are then prepared based on the academic calendar. Academic calendar of the Institute includes schedule of curricular activities, assignment dates, technical events, internal tests, submission of mark lists, extracurricular activities, list of holidays, Schedule of Course Committee and Class Committee, schedule of online submission of internal marks and attendance etc. Time Table of regular lectures for the semester is prepared as well and displayed on the notice board. Students are then informed about time table and academic calendar. The detailed lesson plan/ teaching methodology as suited to syllabus is prepared by each faculty before start of the semester. The lesson plan comprises of content, learning aid and methodology, faculty approach and course outcomes. The lesson plan generally highlights the content and total lectures for completion of the curriculum. Monitoring of implementation of lesson plan is done by Heads of the departments and corrective actions are suggested, wherever required. The laboratory schedule is prepared by the concerned faculty and batch-wise details are specified in laboratory schedule. The HOD monitors the day- to- day conduct of the lectures based on the time table

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://sbce.ac.in/branches/peos-pos-and-psos-6/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
No Data Entered/Not Applicable !!!					
View File					

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://sbce.ac.in/feedback/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Future Fit # 3: Towards a	CIVIL ENGINEERING	15/11/2019

new philosophy of construction		
Revit software Training	CIVIL ENGINEERING	13/02/2020
Fundamentals of Structural Analysis	CIVIL ENGINEERING	20/02/2020
Spillways and Energy Dissipators	CIVIL ENGINEERING	23/05/2020
Sludge Treatment and Disposal	CIVIL ENGINEERING	23/05/2020
Leading and Controlling	CIVIL ENGINEERING	23/05/2020
Workshop on Fundamentals of Computers and Networking	COMPUTER SCIENCE AND ENGINEERING	06/01/2020
Building Scalable Cloud Architecture on AWS	COMPUTER SCIENCE AND ENGINEERING	06/05/2020
Recent Trends in Advanced Computing Technologies	COMPUTER SCIENCE AND ENGINEERING	18/06/2020
Cyber Attacks for Gaining an Initial Foothold	COMPUTER SCIENCE AND ENGINEERING	22/08/2020
Industrial Revolution 4.0: Emerging Trends in Information Technology	COMPUTER SCIENCE AND ENGINEERING	13/07/2020
Essentials of Cyber Security in Digital Era	COMPUTER SCIENCE AND ENGINEERING	10/08/2020
Digital Image Analysis using Deep Neural Network	COMPUTER SCIENCE AND ENGINEERING	26/07/2020
Opportunities after B.Tech	COMPUTER SCIENCE AND ENGINEERING	01/08/2020
Cyber Security and the Career Paths	COMPUTER SCIENCE AND ENGINEERING	26/09/2020
Big Data Analysis for Auditing	COMPUTER SCIENCE AND ENGINEERING	11/07/2020
Programming in C	COMPUTER SCIENCE AND ENGINEERING	16/12/2020
Web App Development and Hosting using Bootstrap	COMPUTER SCIENCE AND ENGINEERING	21/05/2020
Files in C Programming	COMPUTER SCIENCE AND ENGINEERING	26/05/2020
Formal Writing	COMPUTER SCIENCE AND ENGINEERING	28/05/2020
Structure in C	COMPUTER SCIENCE AND ENGINEERING	29/05/2020
PHP- Form Handling Techniques	COMPUTER SCIENCE AND ENGINEERING	30/05/2020
Travelling Salesman Problem-Branch Bound Method	COMPUTER SCIENCE AND ENGINEERING	04/06/2020
ANSYS Workbench and	MECHANICAL ENGINEERING	05/03/2020

Fluent		
Industry Workshop on Arduino and Sensors	ELECTRONICS	

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
IoT Based Integrated Dam Monitoring System	Fahad,Vishnu, Athira,Stephy, Raj ,harikrishnan	Reboot Kerala Hackathon	28/02/2020	Students
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
No Data Entered/Not Applicable !!!	

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Mechanical	5	Null
International	CSE	4	1
International	Mechanical	9	2.3
No file uploaded.			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Computer Science and Engineering	1
Mechanical	6
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
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No Data Entered/Not Applicable !!!

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	26	4	Nil
Presented papers	1	6	Nil	Nil
Resource persons	1	5	Nil	6

No file uploaded.

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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No Data Entered/Not Applicable !!!

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
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No Data Entered/Not Applicable !!!

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Programme	IE(I) Students Chapter, Dept. of ME, SBCE	Product Design Using ANSYS	2	120
Awareness Programme	SAEINDIA	Role of Electronics and software in Automotive Advancement	1	121
Awareness	IE(I)	Awareness	2	35

Programme	Students Chapter, Dept. of ME, SBCE	Programme on Technology and Innovation as a part of World students Day Celebration by IE(I) Students Chapter, Dept. of ME Venue: Gvt. L.P School, Pattoor	
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
No file uploaded.			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Noorul Islam Center for Higher Education	06/01/2020	Research	10
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
23	23

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Topscore software	Partially	1.0.156	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Books	2000	13570	3000	13570	5000	27140
Journals	111	198930	20	20000	131	218930
e-Journals	25000	785101	3	13750	25003	798851
No file uploaded.						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Senthil Saravanan M S	LMS	Googlemeet/Youtube	09/03/2020
Arun P S	LMS	Googlemeet/Youtube	09/03/2020
Vaisakh P S	LMS	Googlemeet/Youtube	09/03/2020
Harikrishnan G	LMS	Googlemeet/Youtube	15/06/2020
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existin	652	498	60	0	60	10	24	1	0

g									
Added	0	0	0	0	0	0	0	0	0
Total	652	498	60	0	60	10	24	1	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

140 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
A-View platform with camera for e content development	https://sbce.ac.in/wp-content/uploads/2019/07/LCSFacility.mp4

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1000000	1043146	11650000	12094419

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Classroom Maintenance: Regular cleaning and maintenance of class rooms are carried out so as to provide effective learning environment to the students. Class rooms are cleaned daily by the housekeeping staff of the college. Central time table is designed in such a way that there is maximum utilization of infrastructure and class rooms. **Laboratory Maintenance:** The records of all the equipment are maintained in stock registers. Every semester, laboratory equipment's are checked, and calibrated and preventive maintenance is done by the laboratory staff. However, major maintenance of any equipment or machinery, is done by external party. Regular monitoring of electrical and fixtures is done and repaired immediately. Furniture and fixtures are repaired as per the requirement centrally. **Library Maintenance:** Library is partially automated. Computerized issuing and returning of books is done so as to save time. Department of library has library committee which involved representative faculty from all department which gives the book demand to library for smooth working. **Computers Maintenance:** Computers Maintenance and support are carried out by system administrators. Regular up gradation is carried out for computers and software. Available computers are distributed in office, library and for administrative work as per the requirement and load of the work. Computers are connected through LAN and with high speed internet facility. Sport material is issued to students as per the schedule. For intercollegiate competitions sport material is issued to the student for the period of the competition. **Gymnasium** is used by students as per the given slot.

<https://sbce.ac.in/naac-cycle-2/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

Name/Title of the scheme	Number of students	Amount in Rupees
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Financial Support from institution	Management Merit Scholarship	60	1599800
Financial Support from Other Sources			
a) National	E Grant scholarship for SC/ST/OEC students, Low income group concession, AICTE Fee waiver	168	400000
b) International	Nil	Nil	Nil
No file uploaded.			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial coaching	02/12/2019	50	Faculty handling the subject, Sree Buddha Engineering college.
Language lab	05/08/2019	188	Faculty handling the subject, Sree Buddha Engineering college.
Soft skill development	05/08/2019	292	Organized as part of induction programme organised by the college for first year students, Jays Academy, Trivandrum
Career Counseling	01/07/2019	486	Value Added Programme implemented by Sree Buddha Engineering college.
No file uploaded.			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Value Added Programme implemented by Sree Buddha	Nil	486	1	70

Engineering college.

No file uploaded.

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Zifo Technologies	22	2	Tata Consultancy Services	45	7
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	5	B.Tech	BTBCE	Amrita Center for Nanoscience and Molecular Medicine, Amrita Vishwa Vidyapeetham	M.Tech.Molecular Medicine
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Nil	Nil	Nil
No file uploaded.		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the	National/	Number of	Number of	Student ID	Name of the
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	award/medal	Internaional	awards for Sports	awards for Cultural	number	student
2020	3rd Place in Javelin Throw in the All Inter Collegiate Athletic meet organized by Reliance group of India , held at Police Stadium, Trivandrum	National	1	Nil	SBC16CS059	Vijo P Varghese
2020	2nd Place in Intercollegiate Volleyball Tournament held at NIT Calicut	National	1	Nil	Nil	Volley ball team
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

• A Student Affairs Council (SAC) is constituted with representatives from teaching faculty and student community. College Principal acts as the ex-officio president of the SAC and he nominates one coordinator and three co-coordinators from the teaching fraternity. In addition to this, there are faculty representatives from all departments nominated by respective HoDs. After the onset of academic year, two students (preferably a male student and a female student with no arrear papers) are elected from each class under the supervision of class advisors. These student representatives would further elect the SAC office bearers in presidential election mode. Chairman, Vice Chairperson (female candidate is preferred), General Secretary, University Union Councilors (2 No.), College Magazine Editor (from pre-final year class), Arts Club Secretary, Sports Secretary, Lady Representative and Representatives for each year are the various student positions in SAC. The SAC meeting is conducted in regular intervals to plan various programmes and to address students' grievances. • As part of the university curriculum, during the beginning and end of each semester a separate class committee and course committee is conducted to discuss the academic related matters. The class committee consists of the HoD, One senior faculty as chairman, course faculties, class advisors and student representatives. The committee will meet thrice in every semester to follow up the academic work. Course committee will also be met thrice in every semester to discuss the course progress and course of action for a course common to different branches. It consist of one senior faculty as chairman, course faculties and student representatives.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Since SBCE opened its doors in 2002, over 1400 students have become Engineering graduates. SBCE Alumni association was formed in 2006 as a platform to strengthen the bond between alumni members. Annual meetings are conducted every year to renew their friendship, interact with the younger generation of SBCE and experience the transformed campus environment with nostalgic memories. Executive Body of Alumni association consists of Ex-Officio President as Principal, Secretary as a Faculty (Mr. Vishnu V.S. Asst. Professor, ECE), Treasurer: Mr. Pradeep Kumar, Placement officer.

5.4.2 – No. of enrolled Alumni:

344

5.4.3 – Alumni contribution during the year (in Rupees) :

344000

5.4.4 – Meetings/activities organized by Alumni Association :

6

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institution strives to create an environment which fosters development of the students and faculty. It offers a harmonious environment to build healthy relationship between all staff members and students. The governing body provides guidelines and policies of the Institute and directly participates in various activities of the Institution. Regular meetings are conducted to share the relevant information to the employees. The Principal constitutes various committees for executing activities in accordance with quality policy and provides directions to the faculty and coordinates them. The Dean provides direction, guidance and supervision on all academic functions, policies, constructive feedback mechanisms etc. The Head of the Department is responsible for overall functioning of department and they hold position as members of the Academic Council and College Council where major Academic/Administrative decisions are taken. For effective implementation and execution of policies and plans, the institution has in place several Committees / Sub-Committees to continuously monitor/guide the academic and administrative activities. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, HoDs' meetings with Principal and HoDs meetings with management. The Management will publish a quality policy manual every year, to ensure transparency and guide the staff to discharge their responsibilities with ease and efficiency. The book contains policies, procedures, rules, benefits and other service matters. The faculty members are also deputed to various administrative training programmes. Many senior faculty members occupy pivotal administrative positions like the Dean, Placement Officer, IQAC coordinator, Controller of Examination etc. They are also part of various decision making administrative bodies. At the department level, decisions are taken by various department level Committees like DAB, PAC etc. The head of the department has been bestowed with the authority of deciding the activities and delegating the responsibilities to the staff members. The

department decides on timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, workshops and recommends necessary industrial visits and internships. The Principal provides leadership for the academic administration and creates an effective environment conducive for learning. Every year, an academic planner is prepared in a meeting as per the academic calendar received from the affiliated University. The meeting convened by the Principal will be attended by HoDs of various department, placement officer and management representative. The schedule approved by the Principal will be sent to the management for approval. After approval, academic calendar of the college will be published.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Teaching and Learning	<ul style="list-style-type: none"> • Class rooms are equipped with smart boards and projectors for effective ICT enabled teaching. • Library has a large collection of books, journals and other e-resources which are being regularly updated. • Students are taken to different industries relevant to their domain to understand industrial developments and requirements for a minimum of two visits per year. • In advisory system, each faculty member is entrusted with the task of mentoring 20 students. This has paved way for strengthening the bond of trust and affection between teachers and students.
Curriculum Development	<ul style="list-style-type: none"> • Following the Tutorial Book System • Carrying out semester wise Mini / Micro projects. • Conducts hands on training programmes for students on new softwares. • Industrial visits are made part of the curricular activities in all semesters to provide awareness about the industrial processes and also make the students understand the needs of the industry- vis-a-vis the academic process. • Students are provided with updated lab manuals for the respective lab sessions. The manual contains detailed explanations, significance and possible viva questions for their ready reference.
Examination and Evaluation	<ul style="list-style-type: none"> • The Controller of Examinations of the college facilitates and ensures the smooth conduct of series examinations and University examinations of UG and PG in accordance with university guidelines. • For effective monitoring of academics and examinations, all the

	class rooms are equipped with CCTV cameras.
Research and Development	<ul style="list-style-type: none"> • Experts from Industries, Research Organizations and Academic Institutions are invited to deliver lectures on latest trends • Faculty members are encouraged to apply for funded projects of AICTE, KSCSTE, CERD (KTU), DST etc. • Faculty members are deputed to participate in workshops, seminars, and conferences in both national and international repute. • Each student in PG studies is attached to a faculty as a part of research, and their findings are published in journals and conference proceedings. • Financial Assistance are provided by management to faculty for publishing technical papers in indexed journals • In-house management funding for quality research projects • Faculty will be granted leave for doing PhD
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • The central library has a large collection of books, journals and other resources which are regularly updated. The count of books is 34429 of which 202 books were added in 2019-20. • The digital library has a vast collection of e-books which are renewed and updated yearly. • Each department has a department library with good collection of books and other reference materials • Most of the classrooms are equipped with projector and smart boards. Every department has a mobile projector which can be used in any classroom. • New equipment are added to department laboratories. All the equipments are well maintained and calibrated for accurate results.
Human Resource Management	<ul style="list-style-type: none"> • College is partnered with ICT academy for conducting training programmes for students and staff. • SBCE is a remote centre for carrying out workshops and faculty development programmes under NMEICT organized with support from various IITs. • Welfare measures like maternity leaves, half pay leave, transportation facility, staff quarters, Special study leave for PhD are granted to teaching and non teaching staff.
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Personalities are invited from various industries as resource persons for seminars, workshops and conferences. • Collaboration with

Industries: o MAKS Automations(P) Ltd ,
 Ezhukone, Kollam, Kerala o Navagriha
 Constructions Kollam, Kerala o
 Geostructurals (P) Ltd, Cochin, Kerala
 o K. Lekshmanan Co, Kollam, Kerala o
 Logix Space Technologies Private Ltd,
 Kochi, Kerala o Crypt4bits Private Ltd,
 Kochi, Kerala o Zero-pi technology
 Private Ltd, Trivandrum, Kerala o
 Exacore IT Solutions Pvt. Ltd,
 Ernakulam, Kerala • Technology
 Collaborations: o Department of Nano
 Technology, Noorul Islam Centre for
 Higher Education, Thuckalay,
 Kanyakumari District, Tamil Nadu o
 Department of Mechanical Engineering,
 Noorul Islam Centre for Higher
 Education, Thuckalay, Kanyakumari
 District, TN. o Department of
 Automobile Engineering, Noorul Islam
 Centre for Higher Education, Thuckalay,
 Kanyakumari District, TN o National
 Highway Authority of India • Students
 and Faculty Internships: o Sarathy
 Autocars, Kollam, Kerala o Logix Space
 Technologies Private Ltd, Kochi, Kerala
 o Crypt4bits Private Ltd, Kochi, Kerala
 o Zero-pi technology Private Ltd,
 Trivandrum, Kerala o Exacore IT
 Solutions Pvt. Ltd, Ernakulam, Kerala

Admission of Students

• The seats are filled up according to the norms prescribed by the Government of Kerala and AICTE

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	The governing bodies such as Sree Buddha Educational Society and Sree Buddha College of Engineering as well as institute always work together to achieve betterment in administration by maintaining the utmost transparency in all the courses offered. In order to check the status and the updates related administration the college participates in different surveys conducted by NGOs, Government agencies or private agencies. As a part of this process the feedback from all the stakeholders is sought frequently.
Finance and Accounts	In order to maintain transparency all the payments made or received are done online or through cheques. In order to meet the daily expenses to be incurred, petty cash facility is available with certain financial freedom delegated to the Principal

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
No Data Entered/Not Applicable !!!						
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
104	105	26	28

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
College Conveyance, Maternity Leave, Staff Quarters	ESI, PF, College Conveyance, Maternity Leave	Management scholarship, Fee concessions, College Conveyance, Hostel facilities for Boys and Girls

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institution conducts internal and external financial audits regularly. Internal and external auditors are appointed by the Sree Buddha Educational Society. The internal and external audits are carried out in each half of the financial year. External Audit Report- •Balance in current liabilities are subject to

confirmation, reconciliation and adjusts, if any, required. • Fixed assets are stated at written down value instead of at gross value and accumulated depreciation. • Internal control procedure and systems, particularly in respect of purchase transactions, reconciliation of exam fee, and timely settlement of advances have scope for improvement. The necessary instructions have been given to the concerned for compliance of the remarks given by auditors.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NA	0	NA
No file uploaded.		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Affiliated University	Yes	IQAC
Administrative	Yes	ISAAC and SURESH Chartered Accounts, Kollam	No	College Admin

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parent- teacher meet • Feedback / Suggestions from parents if any • Providing contacts for Industrial Visits / Expert lecture / etc. • Providing leads / contacts for placement of students

6.5.3 – Development programmes for support staff (at least three)

• Non teaching staff of this college is an integral part and actively involves in the academic and administrative process. • They also have a great part in other activities like consultancy works, online examinations etc.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Blended Learning for Online Teaching Research Seed money for enhancing the research output Implementation of Social relevant project for UG and PG students Encouraging the faculty members to do PhD

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Nil
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality	Date of	Duration From	Duration To	Number of
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	initiative by IQAC	conducting IQAC			participants
2020	FACULTY DEVELOPMENT PROGRAM	01/06/2020	29/06/2020	01/07/2020	220
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Energy conservation day	14/12/2019	Nil	18	32
National Youth Day	12/01/2020	Nil	23	35
Republic Day by NSS	26/01/2020	Nil	13	22
Science Day by IE(I) Students Chapter	28/02/2020	Nil	24	42
World Engineering Day for Sustainable Development by IE(I) Students Chapter	04/03/2020	Nil	18	37
Environment day	05/06/2020	Nil	17	31

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
49.5 percent

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Braille Software/facilities	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address	Number of initiatives taken to	Date	Duration	Name of initiative	Issues addressed	Number of participating students
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	locational advantages and disadvantages	engage with and contribute to local community					and staff
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No Data Entered/Not Applicable !!!

[View File](#)

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
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No Data Entered/Not Applicable !!!

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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No Data Entered/Not Applicable !!!

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Tree plantation was done in the campus by NSS and other clubs of SBCE 2. Institute has installed roof top solar power plant 3. Green audit was done in the campus 4. Rain water harvesting plant implemented in the campus. 5. Institute encourages staff and student to use bicycle for local transportation. 6. E-waste management system in association with local body which properly disposes the e-waste generated in college

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)
 Response: BEST PRACTICES-I Title of the practice : Project Based learning
 Objective Project Based Learning (PBL) prepares students for academic, personal, and career success, and readies young people to rise to the challenges of their lives and the world they will inherit. The objectives of PBL are • To improve the mathematical skills of the students • To enhance the students to acquire deeper knowledge through active exploration of real world challenges and problems. The context Project-Based Learning (PBL) is an instructional methodology that encourages students to learn and apply knowledge and skills through an engaging experience. PBL presents opportunities for deeper learning in- context and for the development of important skills tied to college and career readiness. It is a style of active learning and inquiry-based learning. The Practice In Project Based Learning, teachers make learning come alive for students. Students work on a project over an extended period of time - from a week up to a semester - that engages them in solving a real-world problem or answering a complex question. They demonstrate their knowledge and skills by developing a public product or presentation for a real audience. As a result, students develop deep content knowledge as well as critical thinking, creativity, and communication skills in the context of doing an authentic, meaningful project. Project Based Learning unleashes a contagious, creative energy among students and teachers. Evidence of success Students from Computer Science and engineering developed a project named "Essentia". It is a self learning app for children based on on Device Machine Learning. It can predict various objects and display materials based on the predicted object. Students from Biotechnology and Biochemical Engineering developed a Mosquito repellent, Piyush Natura Herbal Tea, Bio-detergent etc. Problems encountered and resources needed Problem encountered during implementing Project based learning was less awareness among faculty members and students. This can be overcome by arranging

proper training sessions to faculty members. Originality of the project is often lacking among the students. Sree Buddha College of Engineering takes steps to impart knowledge to the students to find solutions for socially relevant problems. The resources needed for implementing the PBL is funding. The students are encouraged to take up socially relevant projects which can easily attract the funding from government agencies. BEST PRACTICES-II Title of the practice : Ideate Innovate Incubate (I3) @ Sree Buddha Incubation Centre Objective The objectives of I3 are • Inculcate a culture of entrepreneurship through innovative student projects. • Apply institutional mechanism to develop entrepreneurial culture among the students. • Promote employment opportunities through innovation. The context Sree Buddha College of Engineering takes initiative in developing Entrepreneurial culture. Students are given platforms to showcase and present innovative ideas. The college has a dedicated space under IEDC named as Sree Buddha Incubation Centre (SBIC) for the students to work after college hours to develop innovative products. Potential entrepreneurs' ideas will be discovered, reviewed and the required support will be given for product development. The practice Motivated many students to participate in various innovation contests and has also bagged prizes in various events. Students are given support for prototyping ideas through proper mentoring. Financial support is also given for developing the product. Students are also given opportunity to exhibit their prototypes in exhibitions conducted in different colleges across the state. Students' startups are always motivated by giving a pre-incubation space in the college and later help given in registering the company officially. Students are also given chance to interact with various Entrepreneurs in the state. Evidence of success ? Student's group participated in the innovative project competition conducted by IHRD College of Engineering Adoor on 10/02/ 2020 and secured first prize for the project IoT based Inverter Parameter monitoring System ? Team Outliers with members Abhilash S. Nair, Dhiman Saha, Krishnakumar and Vishakh V presented the project "Project X: Human Character map generation using Machine Learning" and got selected to the final rounds of the Techathon 2020 conducted by ICT Academy, Kerala. ? Idea of students Sivaprasad S, Mithun M, Ms. Jayalekshmi V.K, Midhula M, Arun Thampy titled "Mr. Saver : Railway GATE Assistive System" presented their prototype at the innovative project competition conducted by IHRD College of Engineering Adoor on 10/02/ 2020 and secured second prize. ? A group of 6 students were selected to the final round of Reboot Kerala Hackathon 2020 held during 28-02-2020 to 30-02-2020, 36 hours hackathon organized by the Department of Higher Education, Kerala for presenting an IoT Based Integrated Dam Monitoring System. ? Student's group got selected to the final round of the technical contest named ICTAK Techathon conducted by ICT Academy of Kerala on 05/03/20 and 06/03/20 for presenting the project 6 step VSI control of 3 phase solar water pump with INC-MPPT algorithm. ? Student's group participated in 36-hour virtual tech innovation marathon conducted by the University of Maryland, Baltimore County and presented the project. Project of the team has won first prize in the health care category. ? Idea of students Ebin Babu Thomas, Akhil B and Hari Krishnan B S selected for the final round of Codefest-Vodafone Idea Limited on the theme AI Powered Solutions for Customer Engagements held during February 8-9, 2020. ? Students participated in the hackathon "Hacking Health" organized by Grapes Solutions and Kerala StartUp Mission during January 19-20, 2020. Problems encountered and resources needed Accounting and Business plan report creation for proper idea prototyping Identifying investors for startups BEST PRACTICES-III Title of the practice : Cambridge English Language Assessment (BEC) Objective The objectives of BEC are ? To boost student's employability ? To make the recruitment easier ? To develop the English language skills of students ? To make the student's acceptable for taking admission in foreign universities. The context Cambridge English: BEC is a high-quality international English language exam that shows students have the work-focused English language skills for study and work

success. This market-leading exam is developed by Cambridge English Language Assessment – a department of the University of Cambridge and world leader in language teaching and assessment. Sree Buddha College of Engineering has taken initiative in making students fit for employability by practicing BEC. The practice ? Student's are offered with a communicative English program for 15 hours. ? Student's who have registered for BEC certification exam special training will be provided. ? Certification Exam will be conducted for registered students. MoU ? Sree Buddha College of Engineering has signed an MoU with International Institute of Foreign Studies for practicing BEC. Evidence of success ? A total of 150 students have registered for BEC.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://sbce.ac.in/>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of the institution is "To create professionally competent Engineers with human values and social commitment" The legacy of excellence of Sree Buddha College of Engineering is displayed in its importance on providing well balanced professional education with student-centric approach which includes research, innovation and hands on experience. In the view of vision and mission, the institution initiated the idea of social relevant projects for the students. To develop Communication skill and Leadership character among the students, the idea of Major Student Projects was initiated, wherein, the institute provides infrastructure to build a technical project to compete in international competitions. An example of such an initiative is GoKart club , a student engineering project aiming to design, conceptualize, fabricate, test and race a single seater, open-wheel Formula Style race car. The fabricate GoKart won the first prize in endurance test at national level GoKart championship. The other innovative student technical projects include low cost 3D printing machine, Quadbike, Solar pump etc. Department of Biotechnology organizes programs on food processing technique for women entrepreneurs. With resources like Technology Business Incubator, Ideation Cafe, Central Instrumentation Facility, and Supercomputing facility, the IED CELL urges young minds to explore, ideate and create. The Incubator of SBCE takes into consideration ideas, proof of concept, innovation factor, and sustainability. Service Learning is part of the Curriculum of the Sree Buddha College of Engineering. The Services the Institution renders to the neighbourhood makes it distinct from other institutions in the city. The Services the Institution renders to the neighbourhood makes it distinct from other institutions in the city. As part of the Unnath Bahrath Abiyan and also through its village Adoption Programme, the college has contributed significantly to the enrichment of the local communities.

Provide the weblink of the institution

<https://sbce.ac.in/>

8.Future Plans of Actions for Next Academic Year

? To initiate the procedure for academic autonomy. ? Applying for 2nd cycle of NBA. ? To develop networking with international universities. ? To encourage students to opt for summer training programs in international universities. ? To increase the number of placements through the activities under career development program. ? To encourage faculty members to do PhD ? To increase the number of students undergoing industrial training/internship. ? To encourage the students to undertake socially relevant project ? To increase research publications in

