



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	DR. B. C. ROY ENGINEERING COLLEGE , DURGAPUR
• Name of the Head of the institution	Dr. Sanjay S Pawar
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	03432501353
• Mobile no	8967674754
• Registered e-mail	info@bcrec.ac.in
• Alternate e-mail	rajesh@bcrec.ac.in
• Address	Jemua Road, Fuljhore
• City/Town	DURGAPUR
• State/UT	West Bengal
• Pin Code	713206
2.Institutional status	
• Affiliated /Constituent	Private and Self Financing
• Type of Institution	Co-education
• Location	Rural

• Financial Status	Self-financing				
• Name of the Affiliating University	Maulana Abul Kalam Azad University of Technology				
• Name of the IQAC Coordinator	Dr. Sanjay Sengupta				
• Phone No.	03432504106				
• Alternate phone No.	9064179712				
• Mobile	9836303034				
• IQAC e-mail address	sanjay.sengupta@bcrec.ac.in				
• Alternate Email address	info@bcrec.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year))	https://bcrec.ac.in/NAAC-AOAR-2021-22.pdf				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://bcrec.ac.in/display-download-manager/AcademicCalendarJan23June23.pdf/Academic%20Calendar%20Even%20Semester%202022-23				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B+	2.72	2021	13/09/2021	12/09/2026
6.Date of Establishment of IQAC			08/06/2018		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
Electrical Engineering	Ankuraan Project	DA&FW, MoA&FW, RKVY-RAAFTAR	2023(1 year)	5 lacs	
8.Whether composition of IQAC as per latest NAAC guidelines			Yes		

<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	2
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> • If yes, mention the amount 	
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
IQAC was instrumental for submission of NBA-SAR Applications re-accreditation of two UG courses, ECE and CSE in the year 2023. IQAC team also jointly worked with the NIRF team for submission of NIRF application	
Through the initiative of IQAC an internal data repository for submission date related to events being organized and publication details of faculty members through Website is initiated. This effort has helped in data collection and reporting process.	
IQAC has taken initiative with the registrar section of the institute for registering its student and faculty members in PARAKH portal, creating institute NAD Id and also registering for Academic Bank of Credit in alignment with NEP 2020 policy	
IQAC is instrumental in initiating the process of signing of MoU with different industrial, research and training organization for better institute industry collaboration and supporting students to become industry ready.	
IQAC Coordinator has worked as mentor for one institute as assigned by the Govt of West-Bengal for hand holding in the NAAC accreditation process.	

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

Plan of Action	Achievements/Outcomes
Mandatory Internal and external Academic- Audit by IQAC team	IQAC prepared a format for conducting academic Audit of all the departments which was approved by the Academic Council. The IQAC team conducted the audit following the format to improve the quality process in academics. The team also ensured that all the departments have followed their recommendations. The external academic audit is also conducted
Submission of Prerequisite and SAR for reaccreditation for NBA accreditation	ECE and CSE department successfully submitted NBA prerequisite and SAR
Feedback System Further restructuring for course wise feedback for each subject (theory and practical)	The Course wise feedback system is successfully implemented and made available through Website where student can provide feedback for each subject they are studying from academic year 2023-24
Add on Course offering beyond the curriculum	Through IQAC initiative a number of of Add-On Courses are offered by different departments which significantly improved the participation of students in such courses in the AY 2022-23.
Getting Autonomous Status for institute	With modification of UGC policy the IQAC has immediately taken initiative of submission of application for autonomous status.

13. Whether the AQAR was placed before statutory body?

Yes

- Name of the statutory body

Name	Date of meeting(s)
Board of Governors	09/09/2023

14. Whether institutional data submitted to AISHE

Year	Date of Submission
2021-22	19/01/2023

15. Multidisciplinary / interdisciplinary

Being an affiliated college, course structure and the contents (Course curriculum) are designed by the parent university, Maulana Abul Kalam Azad University of Technology (MAKAUT), a state university, which is yet to implement the Multidisciplinary/interdisciplinary approach fully. However, in order to provide the holistic academic growth among the students aligning with the objective of NEP- 2020, Interdisciplinary/multi-disciplinary curriculum is being implemented at Dr. B. C. Roy Engineering College by offering Add-on courses to the students which gives freedom to the student to choose their preferred options from the range of programs offered by the institute. Classes for Add-on courses are being conducted on-line/off-line so that students of all streams can choose their preferred multi-disciplinary subjects. Institute is trying to obtain the Autonomy status also after which this approach may be more effectively implemented.

16. Academic bank of credits (ABC):

The institutional preparedness in implementation of Academic Bank of Credits solely depends upon the guidelines of the affiliated University and Higher Education Department, Govt of West Bengal. Provisions of Academic bank of Credit proposed in the NEP 2020 is to facilitate multiple entries and exit points in the academic programs. This is an innovative idea to earn and deposit credits through National schemes like SWAYAM, NPTEL, etc. leading to credit transfer and accumulation which will help the students to get the program completed. Aligning with the NEP-2020, the Institute has decided that Academic Bank of Credit (ABC) Id needs to be created by each student. The process for the same is being taken care and an instruction regarding the same will be sent to the students through the department. The same will be initiated by the Registrar section of the institute in the AY 2023-24

17. Skill development:

AICTE IDEA Lab started its activities for conduction of skill based

training to faculty members/students/professionals who are interested in starting business in the neighbouring area using the equipments like CNC Router, 3D printing, LASER Cutter, 3D Scanning procured in AICTE IDEA Lab.

The Institute has already set up an In-house Training Cell with two components - providing technical training as well as soft skill training starting from the 1st year. Apart from teaching of usual curriculum of parent university, Curriculum Enrichment is achieved through Beyond Syllabus Activities and Value Added Courses imparting transferable and life skills in the form of MOOCs courses through NPTEL, Coursera, etc. and programs on extracurricular and co-curricular activities conducted under Mandatory Additional Requirement (MAR) criteria of the affiliating University.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Institute ensures appropriate integration of Indian knowledge system by following the CBCS scheme set up by Parent University. Students are encouraged to do MOCs courses on Values and ethics. Although the primary mode of communication is English, faculty members and technical assistants are also imparting the knowledge and clearing doubts by communicating in regional languages like Bengali and Hindi, predominated by the students of those communities in this eastern part of the country. Institute has provision of various committee activities which contribute to sensitizing students to cross-cutting issues like Gender, Environmental Sustainability, Human Values and Professional Ethics for development of creative and divergent competencies. Subjects like Indian Constitution, Ethics & Value system of Indian culture, Environment Eco-system, etc. are offered in order to inculcate sense of national integration, culture and civic sense among the student community.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The objectives set out in the NEP 2020 on OBE are Competency, standard, benchmarks, and attainment of targets. In addition to this, the OBE incorporates three elements, (i) Theory of Education, (ii) Systematic Structure of Education, and (iii) specific approach to instructional practice. Efforts have been taken by the faculty members in the Institute to fulfil the objectives and achieve the target as per the structural curriculum provided by the affiliating university. Variety of approaches in teaching Learning process like lectures, seminars, tutorials/workshop/practical and project based learning field work, technology enabled learning internship and apprenticeship and research work are being adopted. Institute also

follows OBE through measuring the outcomes following the norms as specified by National Board of Accreditation and includes them in the course file.

20.Distance education/online education:

Both faculties and students have experienced the online teaching and evaluation process through different software during the Covid pandemic. Institute is trying to make available different type of e-content materials (including recorded lecture videos in the class) prepared by faculty members to all students through website from next academic year 2023-24. Institute allows the M.Tech students to pursue their regular classes on hybrid mode (online / offline). Institute is trying to implement the learning management system (LMS) through which students will be able to get access to the lecture notes, tutorials etc and submit assignments online.

Extended Profile

1.Programme

1.1	914
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1	2805
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	340
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

2.3	799
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Number of outgoing/ final year students during the year		
File Description	Documents	
Data Template	View File	
3.Academic		
3.1		180
Number of full time teachers during the year		
File Description	Documents	
Data Template	View File	
3.2		156
Number of sanctioned posts during the year		
File Description	Documents	
Data Template	View File	
4.Institution		
4.1		56
Total number of Classrooms and Seminar halls		
4.2		1158.95
Total expenditure excluding salary during the year (INR in lakhs)		
4.3		1388
Total number of computers on campus for academic purposes		

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

Institute follows CBCS syllabus prescribed by the affiliating university, and ensures effective curriculum delivery. Department Academic Councils (DACs) of each department discuss the updated syllabus and identify curriculum gaps and propose ways to bridge/

address the gaps. Class representatives as part of the DACs also give their suggestions which are placed before the Academic Council for finalisation.

Effective course delivery is ensured using various instructional methods and pedagogical initiatives such as lectures, tutorials, laboratory experimental work, Project Work, Continuous Assessments both for theory and practical subjects as per University guidelines.

Institute has framed programme objectives, programme learning outcomes, course objectives and course learning outcomes for all UG and PG programmes.

Subjects are allocated to the faculty by the HoDs following which the faculty prepares lecture/ lesson plan and allocates number of lectures on the particular topics, based on the profile of students of the class and their past performance. Course coverage is periodically assessed and any related issues/discrepancies /modifications are discussed in the DAC meeting for effective curriculum delivery.

Institute is a recognized local chapter of NPTEL. Students and faculty are encouraged to get certified in relevant NPTEL courses. Student Chapters and Entrepreneurship Cell activities inculcate self-learning in the students.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

- A College academic calendar is prepared semester-wise following the calendar of university, after discussion with all stake holders. Along with Academic Calendar, the Activity Calendar is also prepared for extra-curricular and co-curricular activities of the students as part of Mandatory Additional Requirements (MAR) of the University.
- The academic calendar contains the following categories of activities:

- Commencement of class
 - Orientation and Mandatory Induction programme
 - Extra-curricular events like NSS activities, NCC activities, Blood Donation and Organ Donation Camps
 - Co-curricular events like Student Chapter activities
 - Mandatory Additional Activities as per requirement of the University
 - MOOCs activities (NPTEL courses, IIT-Bombay Spoken Tutorial Project, etc.)
 - Mentoring activities like individual interaction between Faculty Mentors and Student
 - Specific dates for conduction of Continuous Evaluations - CA1, CA 2, CA 3 and CA4 for theory subjects and PCA 1 & PCA 2 for Practical papers, as prescribed by the University
 - End-semester examinations (Practical & Theory) for University assessments
 - Commemorative events, Holidays and Semester-break
- For continuous internal evaluation (CIE) process the institute adheres to the academic calendar prepared by it based on the academic calendar of the affiliating University.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in C. Any 2 of the above following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.

Academic council/BoS of Affiliating University
Setting of question papers for UG/PG programs
Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

13

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

15

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

1330

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

To incorporate and amalgamate the crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum, Institute has introduced courses like Values and Ethics in Profession, Human Resource Management and Environmental Science etc. in its UG programme.

College has gender sensitization committee which is organizing seminars, workshops, group discussions to sensitize the gender issues. Class representatives are equal with both boys and girls. Around 24% of the students are female and the faculty is well balanced. Without gender discrimination female students are represented in NCC, E- Cell etc.

Environment and Sustainability are one of the ardent issues, addressed by the Institute. Regular awareness programs are conducted including the popular ones being 'Tree Plantation' and 'Clean India- Swachh Bharat Campaign'. Environmental Science is taught in different UG programmes as a compulsory subject in the second year.

Values and Ethics in Profession is included in the curriculum of UG and is taught in the second year. Some more subjects like Human Resource Management is also there compulsorily in the curriculum for UG second year students. University has also included a new paper- The Constitution of India in the UG curriculum for third year students.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

30

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

782

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students

A. All of the above

Teachers Employers Alumni

File Description	Documents
URL for stakeholder feedback report	https://bcrec.ac.in/feedback.html
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://bcrec.ac.in/feedback.html

TEACHING-LEARNING AND EVALUATION**2.1 - Student Enrollment and Profile****2.1.1 - Enrolment Number Number of students admitted during the year****2.1.1.1 - Number of students admitted during the year**

918

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)**2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

205

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

- The Institute admits students from diverse social and economic backgrounds, acknowledging that their learning outcomes are significantly influenced by their own talents and other qualities. To effectively assess students' learning levels, the Institute has established a structured assessment system.
- The initial interaction occurs during the AICTE Induction Programme, where instructors evaluate and identify individual students. Subsequently, during one-on-one sessions, mentors assess mentees' learning capabilities based on academic performance, behavior, and social and psychological traits. Additional sessions cater to their needs, focusing on reinforcing fundamental skills in math and English.
- Attempt for improvement of Slow learners is done through remedial classes. Both slow and advanced learners are encouraged to participate in webinars, seminars, expert lectures. They are also prompted to join professional organizations like IEEE, CSI, IEI and E-Cell, publish papers, engage in innovative projects and research, enroll in MOOC courses, and pursue certifications. Furthermore, they are encouraged to take part in competitive examinations such as GATE, GRE, CAT, among others.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_2/2_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
2805	180

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The college has been focusing on innovative and creative ways of disseminating, sharing, and facilitating knowledge development in students, adopting student-centric methods that are central to outcome-based education (OBE).

Course Delivery Methods:

- Group discussions
- Seminars/Mini projects
- Technical Reports and Case studies
- Simulations and experimental exercises
- Lab experimental work
- Class Assignments/Quizzes

Individual learning:

- E-learning tools like NPTEL videos, SWAYAM, Coursera, IIT Bombay Spoken Tutorial Project, etc. let students learn independently and enhance classroom learning.
- Encouraged to enroll and get certification for add-on online courses for self-paced learning.

Experiential learning:

- Student-centric learning is provided in the practical sessions to apply concepts learned in the classroom.
- Internships and vocational training.
- Final Year group Projects, Technical Fest, and Workshops
- Short Visit to nearby industries/labs

Participative /collaborative learning:

- Exhibiting at intra-college, state, and national project competitions and technical festivals for R&D projects
- Invited talks by experts and alumni from industry and academia.
- MOUs are signed with leading industries to bridge the gaps in

the curriculum.

Problem-based learning promotes students' critical thinking to find solutions in real-life situations.

Faculty also map the learning outcomes from the above initiatives.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The institute always aims to provide up-to-date ICT infrastructure for its students, professors, and technical personnel. The student's learning experiences are enhanced by the teachers' use of educational technologies and the effective usage of ICT-enabled tools.

- Institute has dedicated digital classrooms for all programs with the use of multimedia teaching aids like LCD projectors, internet-enabled computer/laptop systems, and the teacher's use the modern teaching aids.
- Institute has nine smart classrooms, and ICT enabled with projectors & wifi.
- Internally created an online examination system accessible by students via LAN or the internet.
- Grooming/communication skills/Mock tests are conducted using ICT-enabled tools.
- The library subscribes to a large number of e-journals in Engineering, Science, and Management and provides access to online and offline databases.
- The entire academic process is managed by the university's integrated academic management system. The institute has also implemented an ICT-based student admission and payment system for the semester and hostel fees.
- Two seminar halls and two auditoriums are equipped with multimedia facilities.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	No File Uploaded

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

141

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

180

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

77

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

2118

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

- Institute prepares its own academic calendar well before the semester commences based on the University's Academic Calendar. These include completion of syllabus coverage and CAs for theory, PCAs for sessional and laboratory papers. Changes in schedules, patterns, and methods are communicated to students forthwith. The syllabus for the test is communicated to students by class teachers well in advance.
- Internal assessment for theory and lab papers is done through Continuous Assessments (CA1, CA 2, CA 3, CA 4, and PCA 1, PCA 2). The institute has prepared standard formats for question papers depending upon the type of subject based on Course Outcomes (COs) for Continuous Assessment (CA). Departmental question paper moderation committees evaluate the quality of question papers and coverage of the entire COs in the CAs.
- Institute has implemented a digital evaluation of semester-end examination papers, which has helped speed up the evaluation process and increase transparency. Students can raise any discrepancy found in the assessment. Adoption of the above

method as per MAKAUT guidelines ensures complete transparency in the system of internal assessment and strengthens the bond between faculty and students. The institute's examination system is thus completely transparent.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

- The Central Examination Cell is supervised by a faculty member chosen by the authorities. The institute carefully adheres to the affiliated university's norms when conducting internal tests and semester exams.
- All CA and PCA marks for Theory, Practical, and Sessional are uploaded into the university portal, and students can access them by logging in with their own login IDs. After the publication of the results, a student can apply for Post-Publication Scrutiny (PPS) and Post-Publication Review (PPR).
- Viva-voce and lab copy evaluations are explained in front of students to keep the process transparent and minimize grievances. Project seminars are held in Google Meet/Seminar Halls in front of the entire class to ensure complete transparency in internal assessment.
- The Examination Cell, in close collaboration with the University, deals with any student grievances regarding Admit Cards, Registration Cards, etc.
- Any exam malpractice is reported to the Examination Cell and dealt with as per university guidelines. The invigilator can cancel a paper online, and the examination cell can mark it as "Reported Against (RA)". If the student cannot substantiate his case to the satisfaction of the committee, he has to repeat the examination the next semester.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

- Institute follows the outcome-based education following Bloom's Taxonomy guidelines of NBA.
- PSOs are identified after detailed deliberation with the stakeholders and are placed in prominent places including labs and offices. The College is following the COs as specified by MAKAUT, in case the COs is not specified by the university, NBA guidelines are followed.
- The POs, PSOs, and COs are disseminated through Institute Website, Prospectus, Course file, Departments, Laboratories, etc. As a part of the Induction Programme, Institute apprises POs, PSOs, and COs, and other academic details to the fresh batch of students of respective academic programs. Each Course Outcome is mapped to Program Outcomes in terms of relevance. Three levels of relevance are based on the degree of correlation i.e. 1 for low, 2 for medium, and 3 for high correlation. The contribution of course to each PO is expressed in terms of the average relevance of COs mapped to that particular PO. Similarly, the value computed for all the courses including first-year courses is entered for the corresponding PO and PSOs. The agreed-upon COs form the basis for achieving POs and PSOs and thus contribute towards achieving the Mission and Vision of the Institute.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

- The efficiency and effectiveness of the process of attainment of POs and COs are monitored, assessed, and improved by taking inputs from the discussion/suggestion/decision taken in the meetings of the Department Academic Council, Academic Council, and IQAC Cell.
- The following method is used to assess course outcomes. Course attainment levels are defined based on prior performance and

are expressed as a proportion of students achieving a target score.

Theory subjects:

1. Internal Evaluation (weightage 30%): Continuous internal assessment.
2. External Evaluation (weightage 70%): University theory examination.

Practical Subjects:

1. Internal Evaluation (weightage 40%) Lab performance Practical continuous assessment.
2. External Evaluation (weightage 60%) University practical examination.

- Each CO has a target level and is achieved if the attainment is equal to or exceeds the target. Once the total attainment of CO is calculated, it is used for measuring the level of attainment of POs and PSOs.
- Direct Attainment (80% weightage) and Indirect attainment (20% weightage).
- Direct attainment is calculated from CO attainment based on four Continuous Assessments and Semester Examinations and Indirect attainment is calculated based on 25% Program Exit Survey + 50% Alumni survey + 25% Employer Survey.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_6/2_6_2/ADDITIONAL_INFORMATION/

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

758

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://srv15-bcrec.in/vc/IQAC/BCREC_IQAC_RE PORT.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

<https://bcrec.ac.in/feedback.html>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

5

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

17

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://www.manage.gov.in/managecia/

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

R&D cell motivates the faculty members to submission of research proposals to various funding agencies. PRISM-DSIR project was completed. Some projects are in the indifferent stage of consideration in AICTE. Ankuraan project was sanctioned of Rs 5 Lakh by DA&FW, MoA&FW.

Some Patents were published and granted during the AY 2022-23 and applications are also submitted for approval.

BCREC AICTE-IDEA Lab got the 1st position during the academic year 2022-23 among the all AICTE-IDEA labs in INDIA. Various activity was organized by the BCREC AICTE-IDEA Lab for the students of BCREC and for others.

Institute has published its vol: 4 no: 1 online journal in the name of BCREC Engineering Science Transaction (BEST).

Entrepreneur Cell, IPR Cell and IIC cell were organizes several workshops and webinars for awareness on IPR, research methodology and how to startup.

MOU with ISOAH Data Securities Pvt. Ltd., DCG-Data Core System India Pvt. Ltd. helped the students and faculty members for Training & Research Activities, Industry Readiness, internship and placement for the students.

For the creation and transfer of knowledge among the students and faculty members, financial support is provided for organizing STTPs, National /International Conference/ Symposiums etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

37

File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

4

File Description	Documents
URL to the research page on HEI website	https://bcrec.ac.in/rnd-details
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

51

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

152

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Students with the objective of sensitizing them about various social issues and strengthening community participation for holistic development are carried out inside and outside the campus under the

banner of NSS & NCC.

The office of the Prime Minister has Celebrated "Har Ghar Tiranga" awareness about "unsung heroes of Indian independence" on 15th August 2022.

Organize health camp for villagers and blood donation camp for the nearby villages.

Clean the surrounding premises of hostel by the students to promote equality of work and cleanliness as a part of Swachh Bharat Abhiyan.

New clothes were distributed among the marginalized people especially women and children from the underprivileged sections of society on the occasions of Durga puja.

Innovative Idea Presentation by Students and Alumni on National Youth Day 2023 with the theme "Viksit-Yuva-Viksit-Bharat".

Women's Day is celebrated as part of Gender Sensitization programs. A webinar "Nutrition & Hygiene for Women's Self-sufficiency" was conducted to aware the students.

"International Yoga Day" was celebrated too for making the students mentally and physically fit.

PPT Presentation competition on Health & Yoga Session was organized by NCC cell to celebrate the World Health Day and tree plantation was done to celebrate the World Earth Day.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

12

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

520

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

58

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

10

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

The Institute has following adequate physical infrastructure to accommodate all departments for conducting its effective teaching-learning process.

- Located on 10.11 acres of land

- 35686 sq. m. built-up area
- Well equipped spacious 55 classrooms (12 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls
- Laboratories with experimental set-ups, computers & peripherals and Instructors to provide constant support and maintenance.
- Separate R&D labs to carry out research activities.
- Industry tie-up laboratories like Texas Instruments Innovation Lab in collaboration with Texas Instrument, USA, and VLSI lab in tie-up with Xilinx, USA to provide the students hands-on experience and wide exposure
- AICTE IDEA Lab imparting 21st century skills
- Language Lab with modern accessories
- Adequate Staff rooms, Toilets, etc.
- Wi-Fi enabled campus
- Two dedicated Central Computer Centres with 257 desktops
- Six computers in Digital Library, 144 computers in various departments and offices.
- 27 Computer labs with a total of 1388 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 246 KVA for back-up power supply.
- Two Auditoriums with state-of-the-art facilities to carry out extra-curricular activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Institute has created both infrastructural and instructional facilities to bring about all round development for the students including games & sports and extra-curricular activities.

- Large playing fields support a wide variety of games.
- A 200-metre athletic track and courts for Basketball, Volleyball, Handball, and Throw Ball with Day-Night facilities to conduct matches.
- The institute also has a large indoor gymnasium facility for

both boys and girls.

- Karate sessions are held regularly within the college premises and students have represented the Institute at the national level in Karate.
- Yoga sessions are carried out regularly by a permanent Yoga teacher
- The Institute has appointed full-time qualified Sports Personnel (04) to train and guide students in various sports.
- Institute teams have been proving their excellence in various Inter and Intra-Institutional, University, National level competitions.
- Dedicated spaces for Indoor sport.
- Many entertaining events are arranged in two auditoriums as part of cultural activities to exhibit the talent of the students in music, dance, band, etc. with uniqueness and magnanimity.
- Photography club, Debate Club, Quiz Club, etc.
- Tech Fest is conducted by the Student Council to exhibit the technical acumen of the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

16

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in

lakhs)

87.65

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

1. Central Library of the Institute occupies a very important place in the campus.
2. It supports study, teaching-learning process and research activities by providing an ideal learning space for the student (UG & PG), faculty, and staff members.
3. The Central Library is housed in a sprawling three-storied building with a carpet area 1091.16 sq. m.
4. The Central Library is automated with Integrated Library Management Software, LIBSYS [Version: LSEase on Cloud]. The library collection is accessible 24x7, 365 days through Web OPAC (online public access catalogue).
5. The College Library System has a total collection of 7517 titles and 96,223 volumes of books (including 61615 volumes in the Book Bank and 5620 volumes in departmental libraries). Users have access to publications of all major publishers like Elsevier, Springer, Wiley, IEEE, TMH, Pearson, etc.
6. The Library subscribes to about 60 printed journals, 17 printed magazines, and 3 daily newspapers. It also subscribes to a good number of e-journals in the field of engineering, science, and management [IEEE-ASPP (192 titles), Springer Nature 3 Subject Collection (331 titles), Sage Publication (10 titles), etc].
7. It is a member of DELNET (2500+ e-books and 1567 e-journals) and NDLI (6 lakh e-books) providing access to STEM subjects.
8. It has also developed an Electronic Library with facilities for accessing online and offline databases. Patrons can access e-resources using LAN and Wi-Fi facilities.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources **B. Any 3 of the above**

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

26.03

File Description	Documents
Any additional information	View File
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

303

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

- The institution has a policy for periodical upgradation of the IT facilities. New IT infrastructure is created taking into consideration the requirements of the entire college.
- The Institute has a 570 (500+70) MBP Shigh-speed internet connectivity through OFC/LAN/Wi-Fi, with access points/switches (including L2) strategically located across the campus. Wi-Fi is authentication driven with restrictions at different levels to ensure maximum security.Wi-Fi facility in all hostels is for 24 hrs.
- The campus is governed by Microsoft Campus Licensing Agreement.
- A dedicated Computer Centre with more than 300 desktops is provided.
- Our ERP server on the cloud (www.bcrecdgp.ac.in) offers ERP services to the college from any end of the globe.
- In order to ensure safety and security of data, a licensed Sophos firewall with web and application filtersare used.
- The IT infrastructure in the last year is tabulated below:

YEAR

2022-23

Number of Computers (in working Condition)

1388

Laptops

21

Servers

1

Wi-Fi / Access Points/ Switches

176

Open source software

20

Types of Licensed Software

68

Printers (in working condition)

63

No. of Scanners

18

No. of Online UPS

25

No. of CCTV Cameras

64

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

1388

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

181.13

File Description	Documents
Upload any additional information	View File
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

- Institute continuously strives to meet the growing needs of the academics making available adequate physical infrastructure and constantly upgrading facilities in order to provide a good teaching learning environment.
- Academic Council/IQAC convenes regular meetings to assess the infrastructural facilities and requirements. In order to ensure

maintenance and optimum utilization, various systems and procedures are established so as to benefit all the stakeholders.

- Administrative officer of the Institute oversees the campus maintenance which includes buildings, classrooms, laboratories, hostels, playground, lawns etc. Cleaning, Dusting, Sweeping and Mopping, Maintenance of Garden, Pest control, entire campus snag work etc. is undertaken daily by the housekeeping staff. Institute has a workforce of Carpenters, Masons, Electricians and Plumbers for repair work.
- CCTV cameras have been placed at strategic places to help in maintaining discipline and a sense of security, in addition to Security Guards hired through an external private agency. The Institute has deployed Fire Alarm Systems too.
- Files relevant to Library and Library services are well maintained and labelled for easy access.
- Periodic servicing and calibration of equipment/instruments are carried out in all the laboratories.
- System Administrator is responsible for the maintenance of computers and IT facilities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

335

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

237

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	https://bcrec.ac.in/bcrec_training.html
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

925

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

925

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

516

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

13

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

6

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

16

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

The Institute boasts a dynamic Students' Council, comprising representatives from all academic years, delineated into three distinct bodies: the Student Academic Council, Student Social & Cultural Council, and Student Administrative Council. Chaired by the Dean of Students' Welfare & Alumni, three faculty advisors collaborate with students to strategize comprehensive curricular, co-curricular, and extra-curricular development. The Academic Council, with 5-6 student representatives, gathers feedback on teaching-learning processes and proposes enhancements in library facilities. The Administrative Council oversees hostel feedback, anti-ragging initiatives, alumni affairs, and grievance redressal. The Dean addresses issues related to infrastructure, hygiene, and amenities, referring matters to administrative authorities for improvements.

The Social and Cultural Council, represented by 5-6 students, actively engages in organizing sports events, social initiatives, community outreach programs, and recreational activities, collaborating with faculty mentors. The NSS serves to sensitize students to societal issues and community service. The Alumni Association fosters strong connections among former students. The overall structure emphasizes collaborative decision-making through

brainstorms and formal meetings, reinforcing the institute's commitment to holistic student development and a thriving academic community.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

4

File Description	Documents
Report of the event	View File
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

- Alumni Association was formed in the Institute at 2008 and it was reregistered in June 2023.
- Since its inception, the Alumni association has provided enormous support to motivate present students to enhance the employability and shared their expertise regarding various educational opportunities available in country and abroad.
- The association contributing as Expert speakers, sharing experience with students.
- The Alumni facilitate too for campus recruitment through the HR of their respective companies and also play a key role to bridge the gap between industrial requirements and academics

through seminar/ webinar / workshops / industrial training organized by various departments.

- Till date a large number of Alumni are serving the Institute as Faculty Members.
- Mr. Shauvik Bakshi, President Alumni association, is helping the IQAC as active members for enhancement quality of our college.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

5.4.2 - Alumni contribution during the year E. <1Lakhs (INR in Lakhs)

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

BCREC is governed by Dr. B. C. Roy Engineering College Society.

Members of the B.O.G of the College have been constituted as per the guidelines of AICTE, and meets regularly during theyear.

BoG members always encourage the efforts of the college team in maintaining quality standards as well as provide guidance wherever necessary.

The College has an Academic Council with Principal as

Chairman, Deans, HODs and Registrar, Head (Admn.), Campus

Administrator as members taking care of all academic and administrative issues like budget, recruitment, purchases, admissions, promotions, conferences, variation in intake etc., are

discussed and approved in the meeting and thereafter implemented. The meetings are held every twomonths.

To ensure the quality and imbibe the culture of excellence, IQAC has developed the Strategic Plan aligning with vision and mission of the Institute. Faculty opinions and participation is given due weightage by their participation in various committees like Anti-ragging, IQAC, Research, Examination, Placement, Internal Complaint Committee (ICC)to ensure the value addition.

Student Council meetings are held every month to brief students on important decisions and consider theirsuggestions and look into their grievances, if any.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The management has a participative management system with collective decision-making involving Principal, Deans, HODs, IC(Exam) and Registrar.

Case Study

The Institute has developed a well-defined decentralized system to follow the university guidelines for conducting the Internal Assessments as well as end-Semester Examinations.

In-charge of the Examination Cell under the advice of the

Principal execute the process in close liaison with the Controller of Examinations of MAKAUT as well as disseminate the instructions to the HoDs and Departmental Exam Coordinators.

Semester-wise and Department-wise Students' Enrolments, Marks uploading of Internal Assessments (Theory and Practical) and end-Semester Practical, Examination Form fill-up (Regular and Backlog), Scrutiny and Review process are carried out by the Departmental Exam Coordinators under the advice of HoDs and IC, Exam of the Institute.

Internal Assessment marks and end-semester final lab marks are scrutinized by Departmental Marks Moderation Committee headed by the HoDs and being endorsed the marks are uploaded by individual subject teacher tagged by the university.

The requirement for setting question papers are informed to the Principal and the IC(Exam), by the University which is sent to the HoDs for distribution amongst the faculty members in confidential manner.

End-Semester Paper checking is carried out by individual tagged teachers.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Strategic plan of the institute is displayed in the website.

The College is working on Three Es - Equity in education and Excellence in academics which will together lead to optimum levels of Employability.

Case study:

Institute have set their priorities as being a prime aide in employment generation for their students. A few comprehensive strategic changes over the last two years have redefined the performance standards.

The Campus team comprising of senior and experienced professors monitor the training and placement activities since July, 2018

alongside the Training & Placement Team of Kolkata. The team had refurbished the complete training process making a few vital changes with three distinct components, Aptitude, Technical and Verbal & Soft Skills; as a result during the academic year

In the 2022-23 Academic year students got a total 516 single job

offers which is almost 64.4% of total pass out students.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The Institute has an internal Organizational Structure that has evolved over 20 years which is displayed in the website.

The hierarchy is followed at every level.

The Institute is managed by the Board of Governors (BOG).

The Institute has decentralized its operations and has delegated authority at various levels to ensure good governance.

The Statutory bodies of the College are the Academic Council

(AC) and Internal Quality Assurance Cell (IQAC) framed as per norms of AICTE. These bodies play an important role in framing policies and its execution.

The Principal is the academic and administrative head who monitors the overall functioning and growth of the

Institute. Principal acts as the Member-Secretary of the BOG

and the Chairman of Academic Council and IQAC.

The involvement of the effective leadership is achieved through the well-defined system and organizational structure.

The Institute has Service and Recruitment Rules as per the norms of the Government of West Bengal.

Promotion Rules are as per the norms of AICTE/ Government of West Bengal.

Service Rules & Regulations are displayed in the website for dissemination amongst the faculty and staff.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_6/6_2/6_2_2/ADDITIONAL_INFORMATION/
Link to Organogram of the institution webpage	https://bcrec.ac.in/public/pdf/BCREC_BOG_STRUCTURE_PRESENT.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

B. Any 3 of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Progress of an organization depends on its employees. The Institute has effective welfare schemes for the benefit of its teaching and non-teaching staff. All faculty and staff are insured for medical coverage. Institute encourages its teachers in acquiring the latest skills by deputing them for various programs/conferences. Institute supports the teachers by providing Special Leave/Study Leaves to pursue Project/Doctoral/Post- Doctoral research. The Institute has rules for Leaves, DA and HRA, EPF, Gratuity, ESIC scheme, Medical insurance of Rs 1.50 lakhs, Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the

website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. Sports, Gym (male & female), Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. The Institute has Grievance Redressal committee, Internal complain committee, SC/ST Committee responsible to sort out the issues/complaints, if raised by any staff.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

18

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

164

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

180

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

From 2022-23 academic year the institute according to the prescribed standard guidelines developed a Academic Performance Indicator (API) system. API scores are proposed for (a) teaching related activities; (b) domain knowledge; (c) participation in examination and evaluation; (d) contribution to innovative teaching, new courses etc. The minimum API score required by teachers from this category

is 75. The self assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee. API scores are proposed for co-curricular and extension activities; and Professional development related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee. API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

College conducts internal and external financial audits regularly.

A. Internal Audit

The Internal audit is entrusted to qualify Auditors who carry out internal audit checks every quarter and they do a thorough check and verification of all financial transactions with the supporting documents and approval of proper authority for each transaction. The financial transactions are accounted in Tally. ERP by the college. Internal Auditor will examine all vouchers on cent percent basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. On such verification any errors or omissions and commissions when pointed out by the audit team are immediately corrected/rectified and precautionary steps are taken to avoid recurrence of such errors in future.

B. External Audit

All the financial transactions of the college are audited by an external agency. The external audit is carried out by the auditors as per the provisions of the Government rules and regulations. The College has maintained the highest level of transparency in all financial transactions. It may be seen from the audited reports that all the financial transactions are carried out as per the standard norms.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)**6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)**

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Being a self-financed institute, fee collection is the only major source of revenue/income generation for the institute.

The annual budget is prepared according to the need and requirements of the departments taking into consideration the annual intake of students, laboratory and infrastructure development, students, faculty & staff requirements and promotions and latest technologies etc.

The college obtains proposals from the concerned departments regarding expenditure in an academic year, which is matched with the projected income for an academic year and is consolidated by the Principal of the College for approval by the Society that manages the affairs of the College. Once it is approved by the Society, the Principal apprises the Departments of the allocation so that re-appropriation of budget outlays are avoided or kept to the minimum. After the allocation, the departments can avail the financial resources within the given limit.

Purchases are made with the recommendations of duly constituted purchase committee. If any expenditure is made beyond budget sanctioned, it gets ratified in a special meeting.

Our object for resource mobilisation and optimal utilisation of resources puts in the forefront quality of education and growth of students, as the primary and fundamental objective.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

As an IQAC quality initiative, all the departments were suggested to initiate Research Proposal and consequently submit to the funding agencies for procuring Govt. fund as well as begin Industry-Institute partnership through MoU signing.

Practice - 1

In AY 2022-23, Electrical department received a grant of Rs. 5 lakhs from DA&FW (Pre-Seed Stage Funding). This is part of a startup. Also, faculty members started submitted patent. The overall publication in conference and journal increases. Faculty members are provided with motivational financial support for publishing in journal and for conference registration. IQAC taken initiative in formulating the new research policy which includes the above.

Practice - 2

As part of IQAC quality initiative institute has signed MoUs with DCG-Data Core System India Pvt. Ltd. and ISOAH Data Securities Pvt. Ltd. As part of these students have done course on Cyber Security which is out of their curriculum. Also as part of existing MoU, with the IQAC initiative students went for internship programmes at NHAI and CSIR-CMERI. IQAC has taken initiative that all the existing MoUs remain functional with at least one activity as part of the MoU. Some field visits are also organized as part of the MoU.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

(1) To have an effective teaching-learning process, IQAC has taken initiative for implementation of teaching learning through Learning Management system (e.g CANVAS). In some cases this has been implemented. It will be completely implemented from 2023-24 academic year.

IQAC further suggested that the students should be counseled through the Mentors to reduce the stress in students. Faculty Mentors remained always in touch with the Mentees and took care of the students as their Guardians which improved personal bonding, teaching-learning process and improvement of attendance.

(2) IQAC suggested for Academic-Administrative Audits for all the departments to be made mandatory for overall improvement of teaching-learning process. Also IQAC has suggested that an external academic audit should be conducted.

(3) Re-structuring of Feedback system following the OBE process IQAC suggested that Feedback system should be re-structured following the OBE process and the corrective measures should be taken by the departments for implementation. IQAC suggested for availability of course wise feedback for laboratory and theory classes for each semester through website. The same has been implemented and course wise feedback will be taken from 2023-24 AY.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://srv15-bcrec.in/vc/IQAC/BCREC_IQAC_REPORT.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- **Gender sensitivity is an extremely important topic. The Institute arranges activities and events on a regular basis to raise awareness about the problem. The Institute's goal is to promote gender parity by hosting seminars, debates, and group discussions for both boys and girls on a single platform, as well as a public awareness campaign about women's empowerment and gender sensitivity, cybercrime, and self-defense.**

- As per the rules and regulations of the Statutory Separate Common Rooms for Boys and Girls, basic facilities exist in the college. Counseling for both female and male students is provided on a regular basis by the female faculty members of the aforementioned committees.
- In collaboration with police officials from the surrounding area, Durgapur, and the Burdwan district, awareness programs on women's empowerment and gender sensitivity, cybercrime, and self-defense were held on the college grounds in 2022, and female collectives from the institute enthusiastically participated.

File Description	Documents
Annual gender sensitization action plan	https://bcrec.ac.in/GenderSensitizationActionPlan.pdf
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

- Environmental protection is a top priority at the Institute. A sustainable campus environment is something the institute is

constantly working toward, and it has made great strides in creating one.

- The campus's verdant landscape is maintained by a hardworking crew of gardeners and sweepers who attend to the grounds on a daily basis.
- The Institute has organized seminars, webinars, NSS cells, and other educational events to educate its staff and students in compliance with the Swachha Bharat Abhiyan.
- The Institute's technique for disposing of waste is quite effective. Durgapur Municipality gathers garbage that won't break down in the environment, and then they sort the organic waste to make compost that residents can utilize. Green and blue trash cans are used for solid waste separation at the hostel and cafeteria.
- The municipal sewage system receives the collected liquid waste.
- An E-waste collecting company buys the finished product from innovation laboratories, where students salvage the parts.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus C. Any 2 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for A. Any 4 or All of the above

greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities

B. Any 3 of the above

(Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

- The Institute is well-known not just for its academic quality but also for its HR practices that promote empathy, societal consciousness, and harmonious interaction with its surroundings and sensibilities.
- Faculty, staff, and students at the institute are from all around India, and they enjoy each other's festivals, music, and art. Orientation programs for students include some artistic offerings from each of the students' home states. The diversity of musical and cultural performances is reflected in student bands and cultural activities.
- Linguistic disparities are accommodated by using a common professional language, such as English, during working hours.
- Divisions within communities are uncommon. The Institute has a strong and long-standing commitment to social responsibility. The NSS Cell has been involved in numerous socially responsible efforts, such as charity initiatives for the needy in society.
- Ramps, elevator facilities, and even specific supporting staff members are provided for differently-abled students, workers, or teachers.
- During the Soft Skills Sessions, group discussions on LGBTQ awareness, rights, and empowerment are covered. This is done to alleviate student concerns and apprehensions from the start of hostel living while also encouraging awareness and

inclusivity in the approach to campus life.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

- The Institute is well aware of its important role as the architect of India's next generation. In both speech and deed, the Institute is committed to the philosophy of the Indian Constitution. The Institute is well aware of its important role as the architect of India's next generation. In both speech and deed, the Institute is committed to the philosophy of the Indian Constitution.
- A copy of the Preamble to the Constitution is kept in the welcome area of the main office building to highlight the emphasis the Institute places on it.
- The Preamble is recited verbatim by the Institute as a symbol of their renewed dedication to the Constitution on Constitution Day.
- Through several programs, such as the New India Pledge ceremony on Republic Day and Independence Day, the Institute seeks to inculcate in its students a sense of responsibility towards the Constitution.
- The course Constitution of India/Essence of Indian Knowledge and Traditions is taught as part of the curriculum; however, it is not credit-bearing.
- Following the ideals and values of community service, the institute organizes the Swachh Bharat and Swasth Bharat Initiatives regularly.
- Annually, the Organ Donation Pledge Workshops are organized by the National Service Scheme (NSS) in collaboration with non-governmental organizations (NGOs) to inform students about the critical need for more people to donate their organs.
- Every year, World Environment Day is marked with tremendous passion on campus by planting trees.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/
Any other relevant information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

- On a national and international scale, the Institute has an extensive tradition of commemorative days, anniversaries, and festivals.
- The institute's buildings are named after notable persons and visionaries, such as Vidyasagar Bhawan, Ashutosh Bhawan, Mahalanabish Bhawan, Sister Nivedita Girls Hostel, Chittaranjan Boys Hostel, Satyen Bose Boys Hostel, and so on.
- The gardens are named after individuals, such as Bidhan Udyan,

Rabindra Udyan, Vivek Udyan, and so on.

- Independence Day and Republic Day are traditionally celebrated at the institute with tremendous enthusiasm and fervour. A parade of NCC members by the student group, the principal's address, the singing of the national anthem, and the unfolding of the tricolour national flag are all part of the celebrations.
- Another major event that instills passion and loyalty to our nation's constitution is the Constitution Day celebration, which commemorates the adoption of the Indian Constitution in 1950.
- The Vivek Udyan is named in honour of Swami Vivekananda, and the institute makes every effort to commemorate the anniversary of his birth. The institute commemorates National Education Day to celebrate the efforts of Bharat Ratna Maulana Abul Kalam Azad.
- The Institute commemorates Teachers Day on September 5th, the birth anniversary of Dr. S. P. Radhakrishnan.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice 1 Career Guidance Training

In today's ever-changing dynamism, Career Guidance to the students is the most vital aspect of college education so that the students can serve the needs of the ever-changing and dynamic market needs. Students are trained on Communication & Presentation Skills (using language lab) imparted by the faculty members of English Department.

Specific training is provided to the students by hiring different Professional agencies e.g. Co-cubes, Bangalore. At the individual department level, Career Guidance is provided to the students through Alumni interaction to help them explore various career options. Students are encouraged to participate in technical contests, carry out project work, undergo internships and also organize various technical fests and social activities to enhance their knowledge through experiential learning. Different MoUs with CSIR-CMERI and Capgemini are signed for helping students for better career guidance through industry academia interactions. Entrepreneurship also promoted by E-Cell of collaboration Institute Innovation Council(IIC).

Best Practice 2 Content beyond Curriculum

The main objective of the practice is to help students to groom in a progressive environment to become competent professionals through necessary skill development and self-learning such that they can involve in innovation and creative thinking. As a nodal center of NPTEL, the institute has been recognized as an ACTIVE and one of the top 100 local chapters. Students enrol for MooCs courses through NPTEL for obtaining knowledge on content beyond curriculum. The newly set up AICTE IDEA Lab provide students to develop their skills in different emerging areas.

File Description	Documents
Best practices in the Institutional website	https://bcrec.ac.in/public/pdf/BCREC_BEST_PRACTICES.pdf
Any other relevant information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute is celebrating more than two decades of its meaningful contribution in the promotion of higher technical education with a focus on sustainable growth through industrial tie-ups, faculty expertise and media relationships. Earning media reputation over the years is one distinctive area to its priority and thrust.

Institute has signed up MoUs with different organizations e.g. CSIR-

CMERI , Capgemini, ISOAH, DataCore etc to have a more enhanced industry academia relationship. Students are participating in the internship programs of CSIR-CMERI and NHAI like organizations as part of the MoUs.

Institute has also focused on developing an innovation culture among the students and faculty members. Alinging to this goal institute has setup Institute Innovation Council (IIC) and encouraing students and faculty members towards developing innovative ideas which will covert to some kind of usable products.

The AICTE IDEA lab has been setup in the institute to encourage concept ideation using the lab. Also, IDEA lab is helping students and teachers / faculty members of nearby different other institutes to develop skills in the emerging areas. Building up of an innovation hub is under progress as part of MoU with VITTI Research Foundation.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

Institute follows CBCS syllabus prescribed by the affiliating university, and ensures effective curriculum delivery. Department Academic Councils (DACs) of each department discuss the updated syllabus and identify curriculum gaps and propose ways to bridge/address the gaps. Class representatives as part of the DACs also give their suggestions which are placed before the Academic Council for finalisation.

Effective course delivery is ensured using various instructional methods and pedagogical initiatives such as lectures, tutorials, laboratory experimental work, Project Work, Continuous Assessments both for theory and practical subjects as per University guidelines.

Institute has framed programme objectives, programme learning outcomes, course objectives and course learning outcomes for all UG and PG programmes.

Subjects are allocated to the faculty by the HoDs following which the faculty prepares lecture/ lesson plan and allocates number of lectures on the particular topics, based on the profile of students of the class and their past performance. Course coverage is periodically assessed and any related issues/discrepancies /modifications are discussed in the DAC meeting for effective curriculum delivery.

Institute is a recognized local chapter of NPTEL. Students and faculty are encouraged to get certified in relevant NPTEL courses. Student Chapters and Entrepreneurship Cell activities inculcate self-learning in the students.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

- A College academic calendar is prepared semester-wise following the calendar of university, after discussion with all stake holders. Along with Academic Calendar, the Activity Calendar is also prepared for extra-curricular and co-curricular activities of the students as part of Mandatory Additional Requirements (MAR) of the University.
- The academic calendar contains the following categories of activities:
 - Commencement of class
 - Orientation and Mandatory Induction programme
 - Extra-curricular events like NSS activities, NCC activities, Blood Donation and Organ Donation Camps
 - Co-curricular events like Student Chapter activities
 - Mandatory Additional Activities as per requirement of the University
 - MOOCs activities (NPTEL courses, IIT-Bombay Spoken Tutorial Project, etc.)
 - Mentoring activities like individual interaction between Faculty Mentors and Student
 - Specific dates for conduction of Continuous Evaluations - CA1, CA 2, CA 3 and CA4 for theory subjects and PCA 1 & PCA 2 for Practical papers, as prescribed by the University
 - End-semester examinations (Practical & Theory) for University assessments
 - Commemorative events, Holidays and Semester-break
- For continuous internal evaluation (CIE) process the institute adheres to the academic calendar prepared by it based on the academic calendar of the affiliating University.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate

C. Any 2 of the above

in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

13

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

15

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

1330

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

To incorporate and amalgamate the crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum, Institute has introduced courses like Values and Ethics in Profession, Human Resource Management and Environmental Science etc. in its UG programme.

College has gender sensitization committee which is organizing seminars, workshops, group discussions to sensitize the gender issues. Class representatives are equal with both boys and girls. Around 24% of the students are female and the faculty is well balanced. Without gender discrimination female students are represented in NCC, E- Cell etc.

Environment and Sustainability are one of the ardent issues, addressed by the Institute. Regular awareness programs are conducted including the popular ones being 'Tree Plantation' and 'Clean India- Swachh Bharat Campaign'. Environmental Science is taught in different UG programmes as a compulsory subject in the second year.

Values and Ethics in Profession is included in the curriculum of

UG and is taught in the second year. Some more subjects like Human Resource Management is also there compulsorily in the curriculum for UG second year students. University has also included a new paper- The Constitution of India in the UG curriculum for third year students.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

30

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

782

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://bcrec.ac.in/feedback.html
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://bcrec.ac.in/feedback.html

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

918

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

205

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

- The Institute admits students from diverse social and economic backgrounds, acknowledging that their learning outcomes are significantly influenced by their own talents and other qualities. To effectively assess students' learning levels, the Institute has established a structured assessment system.
- The initial interaction occurs during the AICTE Induction Programme, where instructors evaluate and identify individual students. Subsequently, during one-on-one sessions, mentors assess mentees' learning capabilities based on academic performance, behavior, and social and psychological traits. Additional sessions cater to their needs, focusing on reinforcing fundamental skills in math and English.
- Attempt for improvement of Slow learners is done through remedial classes. Both slow and advanced learners are encouraged to participate in webinars, seminars, expert lectures. They are also prompted to join professional organizations like IEEE, CSI, IEI and E-Cell, publish papers, engage in innovative projects and research, enroll in MOOC courses, and pursue certifications. Furthermore, they are encouraged to take part in competitive

examinations such as GATE, GRE, CAT, among others.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_2_2_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
2805	180

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The college has been focusing on innovative and creative ways of disseminating, sharing, and facilitating knowledge development in students, adopting student-centric methods that are central to outcome-based education (OBE).

Course Delivery Methods:

- Group discussions
- Seminars/Mini projects
- Technical Reports and Case studies
- Simulations and experimental exercises
- Lab experimental work
- Class Assignments/Quizzes

Individual learning:

- E-learning tools like NPTEL videos, SWAYAM, Coursera, IIT Bombay Spoken Tutorial Project, etc. let students learn independently and enhance classroom learning.
- Encouraged to enroll and get certification for add-on online courses for self-paced learning.

Experiential learning:

- Student-centric learning is provided in the practical sessions to apply concepts learned in the classroom.
- Internships and vocational training.
- Final Year group Projects, Technical Fest, and Workshops
- Short Visit to nearby industries/labs

Participative /collaborative learning:

- Exhibiting at intra-college, state, and national project competitions and technical festivals for R&D projects
- Invited talks by experts and alumni from industry and academia.
- MOUs are signed with leading industries to bridge the gaps in the curriculum.

Problem-based learning promotes students' critical thinking to find solutions in real-life situations.

Faculty also map the learning outcomes from the above initiatives.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The institute always aims to provide up-to-date ICT infrastructure for its students, professors, and technical personnel. The student's learning experiences are enhanced by the teachers' use of educational technologies and the effective usage of ICT-enabled tools.

- Institute has dedicated digital classrooms for all programs with the use of multimedia teaching aids like LCD projectors, internet-enabled computer/laptop systems, and the teacher's use the modern teaching aids.
- Institute has nine smart classrooms, and ICT enabled with projectors & wifi.

- Internally created an online examination system accessible by students via LAN or the internet.
- Grooming/communication skills/Mock tests are conducted using ICT-enabled tools.
- The library subscribes to a large number of e-journals in Engineering, Science, and Management and provides access to online and offline databases.
- The entire academic process is managed by the university's integrated academic management system. The institute has also implemented an ICT-based student admission and payment system for the semester and hostel fees.
- Two seminar halls and two auditoriums are equipped with multimedia facilities.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	No File Uploaded

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

141

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

180

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

77

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

2118

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

- Institute prepares its own academic calendar well before the semester commences based on the University's Academic Calendar. These include completion of syllabus coverage and CAs for theory, PCAs for sessional and laboratory papers. Changes in schedules, patterns, and methods are communicated to students forthwith. The syllabus for the test is communicated to students by class teachers well in advance.
- Internal assessment for theory and lab papers is done through Continuous Assessments (CA1, CA 2, CA 3, CA 4, and PCA 1, PCA 2). The institute has prepared standard formats for question papers depending upon the type of subject based on Course Outcomes (COs) for Continuous Assessment (CA). Departmental question paper moderation committees evaluate the quality of question papers and coverage of the entire COs in the CAs.
- Institute has implemented a digital evaluation of semester-end examination papers, which has helped speed up the evaluation process and increase transparency. Students can raise any discrepancy found in the assessment. Adoption of the above method as per MAKAUT guidelines ensures complete transparency in the system of internal assessment and strengthens the bond between faculty and students. The institute's examination system is thus completely transparent.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRI_TERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

- The Central Examination Cell is supervised by a faculty member chosen by the authorities. The institute carefully adheres to the affiliated university's norms when conducting internal tests and semester exams.
- All CA and PCA marks for Theory, Practical, and Sessional are uploaded into the university portal, and students can access them by logging in with their own login IDs. After the publication of the results, a student can apply for Post-Publication Scrutiny (PPS) and Post-Publication Review (PPR).

- Viva-voce and lab copy evaluations are explained in front of students to keep the process transparent and minimize grievances. Project seminars are held in Google Meet/Seminar Halls in front of the entire class to ensure complete transparency in internal assessment.
- The Examination Cell, in close collaboration with the University, deals with any student grievances regarding Admit Cards, Registration Cards, etc.
- Any exam malpractice is reported to the Examination Cell and dealt with as per university guidelines. The invigilator can cancel a paper online, and the examination cell can mark it as "Reported Against (RA)". If the student cannot substantiate his case to the satisfaction of the committee, he has to repeat the examination the next semester.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRI_TERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

- Institute follows the outcome-based education following Bloom's Taxonomy guidelines of NBA.
- PSOs are identified after detailed deliberation with the stakeholders and are placed in prominent places including labs and offices. The College is following the COs as specified by MAKAUT, in case the COs is not specified by the university, NBA guidelines are followed.
- The POs, PSOs, and COs are disseminated through Institute Website, Prospectus, Course file, Departments, Laboratories, etc. As a part of the Induction Programme, Institute apprises POs, PSOs, and COs, and other academic details to the fresh batch of students of respective academic programs. Each Course Outcome is mapped to Program Outcomes in terms of relevance. Three levels of relevance are based on the degree of correlation i.e. 1 for low, 2 for medium, and 3 for high correlation. The contribution of course to each PO is expressed in terms of the average relevance of COs mapped to that particular PO. Similarly,

the value computed for all the courses including first-year courses is entered for the corresponding PO and PSOs. The agreed-upon COs form the basis for achieving POs and PSOs and thus contribute towards achieving the Mission and Vision of the Institute.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

- The efficiency and effectiveness of the process of attainment of POs and COs are monitored, assessed, and improved by taking inputs from the discussion/suggestion/decision taken in the meetings of the Department Academic Council, Academic Council, and IQAC Cell.
- The following method is used to assess course outcomes. Course attainment levels are defined based on prior performance and are expressed as a proportion of students achieving a target score.

Theory subjects:

1. Internal Evaluation (weightage 30%): Continuous internal assessment.

2. External Evaluation (weightage 70%): University theory examination.

Practical Subjects:

1. Internal Evaluation (weightage 40%) Lab performance Practical continuous assessment.

2. External Evaluation (weightage 60%) University practical examination.

- Each CO has a target level and is achieved if the

attainment is equal to or exceeds the target. Once the total attainment of CO is calculated, it is used for measuring the level of attainment of POs and PSOs.

- Direct Attainment (80% weightage) and Indirect attainment (20% weightage).
- Direct attainment is calculated from CO attainment based on four Continuous Assessments and Semester Examinations and Indirect attainment is calculated based on 25% Program Exit Survey + 50% Alumni survey + 25% Employer Survey.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_2/2_6/2_6_2/ADDITIONAL_INFORMATION/

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

758

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://srv15-bcrec.in/vc/IQAC/BCREC_IQAC_REPORT.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

<https://bcrec.ac.in/feedback.html>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)**3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)**

5

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)**3.1.2.1 - Number of teachers recognized as research guides**

17

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year**3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year**

1

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://www.manage.gov.in/managecia/

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

R&D cell motivates the faculty members to submission of research proposals to various funding agencies. PRISM-DSIR project was completed. Some projects are in the indifferent stage of consideration in AICTE. Ankuraan project was sanctioned of Rs 5 Lakh by DA&FW, MoA&FW.

Some Patents were published and granted during the AY 2022-23 and applications are also submitted for approval.

BCREC AICTE-IDEA Lab got the 1st position during the academic year 2022-23 among the all AICTE-IDEA labs in INDIA. Various activity was organized by the BCREC AICTE-IDEA Lab for the students of BCREC and for others.

Institute has published its vol: 4 no: 1 online journal in the name of BCREC Engineering Science Transaction (BEST).

Entrepreneur Cell, IPR Cell and IIC cell were organizes several workshops and webinars for awareness on IPR, research methodology and how to startup.

MOU with ISOAH Data Securities Pvt. Ltd., DCG-Data Core System India Pvt. Ltd. helped the students and faculty members for Training & Research Activities, Industry Readiness, internship and placement for the students.

For the creation and transfer of knowledge among the students and faculty members, financial support is provided for organizing STTPs, National /International Conference/ Symposiums etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

37	
File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

4	
File Description	Documents
URL to the research page on HEI website	https://bcrec.ac.in/rnd-details
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

51	
File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

152

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Students with the objective of sensitizing them about various social issues and strengthening community participation for holistic development are carried out inside and outside the campus under the banner of NSS & NCC.

The office of the Prime Minister has Celebrated "Har Ghar Tiranga" awareness about "unsung heroes of Indian independence" on 15th August 2022.

Organize health camp for villagers and blood donation camp for the nearby villages.

Clean the surrounding premises of hostel by the students to promote equality of work and cleanliness as a part of Swach Bharat Abhiyan.

New clothes were distributed among the marginalized people especially women and children from the underprivileged sections of society on the occasions of Durga puja.

Innovative Idea Presentation by Students and Alumni on National Youth Day 2023 with the theme "Viksit-Yuva-Viksit-Bharat".

Women's Day is celebrated as part of Gender Sensitization programs. A webinar "Nutrition & Hygiene for Women's Self-sufficiency" was conducted to aware the students.

"International Yoga Day" was celebrated too for making the students mentally and physically fit.

PPT Presentation competition on Health & Yoga Session was organized by NCC cell to celebrate the World Health Day and tree plantation was done to celebrate the World Earth Day.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

6

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

12

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

520

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

58

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate

houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

10

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

The Institute has following adequate physical infrastructure to accommodate all departments for conducting its effective teaching-learning process.

- Located on 10.11 acres of land
- 35686 sq. m. built-up area
- Well equipped spacious 55 classrooms (12 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls
- Laboratories with experimental set-ups, computers & peripherals and Instructors to provide constant support and maintenance.
- Separate R&D labs to carry out research activities.
- Industry tie-up laboratories like Texas Instruments Innovation Lab in collaboration with Texas Instrument, USA, and VLSI lab in tie-up with Xilinx, USA to provide the students hands-on experience and wide exposure
- AICTE IDEA Lab imparting 21st century skills
- Language Lab with modern accessories
- Adequate Staff rooms, Toilets, etc.
- Wi-Fi enabled campus

- Two dedicated Central Computer Centres with 257 desktops
- Six computers in Digital Library, 144 computers in various departments and offices.
- 27 Computer labs with a total of 1388 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 246 KVA for back-up power supply.
- Two Auditoriums with state-of-the-art facilities to carry out extra-curricular activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Institute has created both infrastructural and instructional facilities to bring about all round development for the students including games & sports and extra-curricular activities.

- Large playing fields support a wide variety of games.
- A 200-metre athletic track and courts for Basketball, Volleyball, Handball, and Throw Ball with Day-Night facilities to conduct matches.
- The institute also has a large indoor gymnasium facility for both boys and girls.
- Karate sessions are held regularly within the college premises and students have represented the Institute at the national level in Karate.
- Yoga sessions are carried out regularly by a permanent Yoga teacher
- The Institute has appointed full-time qualified Sports Personnel (04) to train and guide students in various sports.
- Institute teams have been proving their excellence in various Inter and Intra-Institutional, University, National level competitions.
- Dedicated spaces for Indoor sport.
- Many entertaining events are arranged in two auditoriums as part of cultural activities to exhibit the talent of the students in music, dance, band, etc. with uniqueness and

magnanimity.

- Photography club, Debate Club, Quiz Club, etc.
- Tech Fest is conducted by the Student Council to exhibit the technical acumen of the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

16

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

87.65

File Description	Documents
Upload any additional information	View File
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

1. Central Library of the Institute occupies a very important place in the campus.
2. It supports study, teaching-learning process and research activities by providing an ideal learning space for the student (UG & PG), faculty, and staff members.
3. The Central Library is housed in a sprawling three-storied building with a carpet area 1091.16 sq. m.
4. The Central Library is automated with Integrated Library Management Software, LIBSYS [Version: LSEase on Cloud]. The library collection is accessible 24x7, 365 days through Web OPAC (online public access catalogue).
5. The College Library System has a total collection of 7517 titles and 96,223 volumes of books (including 61615 volumes in the Book Bank and 5620 volumes in departmental libraries). Users have access to publications of all major publishers like Elsevier, Springer, Wiley, IEEE, TMH, Pearson, etc.
6. The Library subscribes to about 60 printed journals, 17 printed magazines, and 3 daily newspapers. It also subscribes to a good number of e-journals in the field of engineering, science, and management [IEEE-ASPP (192 titles), Springer Nature 3 Subject Collection (331 titles), Sage Publication (10 titles), etc].
7. It is a member of DELNET (2500+ e-books and 1567 e-journals) and NDLI (6 lakh e-books) providing access to STEM subjects.
8. It has also developed an Electronic Library with facilities for accessing online and offline databases. Patrons can access e-resources using LAN and Wi-Fi facilities.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

B. Any 3 of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

26.03

File Description	Documents
Any additional information	View File
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

303

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

- The institution has a policy for periodical upgradation of the IT facilities. New IT infrastructure is created taking intoconsideration the requirements of the entire college.
- The Institute has a 570 (500+70) MBP Shigh-speed internet

connectivity through OFC/LAN/Wi-Fi, with access points/switches (including L2) strategically located across the campus. Wi-Fi is authentication driven with restrictions at different levels to ensure maximum security. Wi-Fi facility in all hostels is for 24 hrs.

- The campus is governed by Microsoft Campus Licensing Agreement.
- A dedicated Computer Centre with more than 300 desktops is provided.
- Our ERP server on the cloud (www.bcrecdgp.ac.in) offers ERP services to the college from any end of the globe.
- In order to ensure safety and security of data, a licensed Sophos firewall with web and application filters are used.
- The IT infrastructure in the last year is tabulated below:

YEAR

2022-23

Number of Computers (in working Condition)

1388

Laptops

21

Servers

1

Wi-Fi / Access Points/ Switches

176

Open source software

20

Types of Licensed Software

68

Printers (in working condition)

63

No. of Scanners

18

No. of Online UPS

25

No. of CCTV Cameras

64

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

1388

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)****181.13**

File Description	Documents
Upload any additional information	View File
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

- Institute continuously strives to meet the growing needs of the academics making available adequate physical infrastructure and constantly upgrading facilities in order to provide a good teaching learning environment.
- Academic Council/IQAC convenes regular meetings to assess the infrastructural facilities and requirements. In order to ensure maintenance and optimum utilization, various systems and procedures are established so as to benefit all the stakeholders.
- Administrative officer of the Institute oversees the campus maintenance which includes buildings, classrooms, laboratories, hostels, playground, lawns etc. Cleaning, Dusting, Sweeping and Mopping, Maintenance of Garden, Pest control, entire campus snag work etc. is undertaken daily by the housekeeping staff. Institute has a workforce of Carpenters, Masons, Electricians and Plumbers for repair work.
- CCTV cameras have been placed at strategic places to help in maintaining discipline and a sense of security, in addition to Security Guards hired through an external private agency. The Institute has deployed Fire Alarm

Systems too.

- Files relevant to Library and Library services are well maintained and labelled for easy access.
- Periodic servicing and calibration of equipment/instruments are carried out in all the laboratories.
- System Administrator is responsible for the maintenance of computers and IT facilities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

335

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

237

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	https://bcrec.ac.in/bcrec_training.html
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

925

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

925

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent

mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

516

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

13

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

6

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

16

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

The Institute boasts a dynamic Students' Council, comprising representatives from all academic years, delineated into three distinct bodies: the Student Academic Council, Student Social & Cultural Council, and Student Administrative Council. Chaired by the Dean of Students' Welfare & Alumni, three faculty advisors collaborate with students to strategize comprehensive curricular, co-curricular, and extra-curricular development. The Academic Council, with 5-6 student representatives, gathers feedback on teaching-learning processes and proposes enhancements in library facilities. The Administrative Council oversees hostel feedback, anti-ragging initiatives, alumni affairs, and grievance redressal. The Dean addresses issues related to infrastructure, hygiene, and amenities, referring matters to administrative authorities for improvements.

The Social and Cultural Council, represented by 5-6 students, actively engages in organizing sports events, social initiatives, community outreach programs, and recreational activities, collaborating with faculty mentors. The NSS serves to sensitize students to societal issues and community service. The Alumni Association fosters strong connections among former students. The overall structure emphasizes collaborative decision-making through brainstorming and formal meetings, reinforcing the institute's commitment to holistic student development and a thriving academic community.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

4

File Description	Documents
Report of the event	View File
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

- Alumni Association was formed in the Institute at 2008 and it was reregistered in June 2023.
- Since its inception, the Alumni association has provided enormous support to motivate present students to enhance the employability and shared their expertise regarding various educational opportunities available in country and abroad.
- The association contributing as Expert speakers, sharing experience with students.
- The Alumni facilitate too for campus recruitment through the HR of their respective companies and also play a key role to bridge the gap between industrial requirements and academics through seminar/ webinar / workshops / industrial training organized by various departments.

- Till date a large number of Alumni are serving the Institute as Faculty Members.
- Mr. Shauvik Bakshi, President Alumni association, is helping the IQAC as active members for enhancement quality of our college.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

BCREC is governed by Dr. B. C. Roy Engineering College Society.

Members of the B.O.G of the College have been constituted as per the guidelines of AICTE, and meets regularly during theyear.

BoG members always encourage the efforts of the college team in maintaining quality standards as well as provide guidance wherever necessary.

The College has an Academic Council with Principal as

Chairman, Deans, HODs and Registrar, Head (Admn.), Campus

Administrator as members taking care of all academic and administrative issues like budget, recruitment, purchases, admissions, promotions, conferences, variation in intake etc., are discussed and approved in the meeting and thereafter implemented. The meetings are held every twomonths.

To ensure the quality and imbibe the culture of excellence, IQAC has developed the Strategic Plan aligning with vision and mission of the Institute. Faculty opinions and participation is given due weightage by their participation in various committees like Anti-ragging, IQAC, Research, Examination, Placement, Internal Complaint Committee (ICC) to ensure the value addition.

Student Council meetings are held every month to brief students on important decisions and consider their suggestions and look into their grievances, if any.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The management has a participative management system with collective decision-making involving Principal, Deans, HODs, IC(Exam) and Registrar.

Case Study

The Institute has developed a well-defined decentralized system to follow the university guidelines for conducting the Internal Assessments as well as end-Semester Examinations.

In-charge of the Examination Cell under the advice of the

Principal execute the process in close liaison with the Controller of Examinations of MAKAUT as well as disseminate the instructions to the HoDs and Departmental Exam Coordinators.

Semester-wise and Department-wise Students' Enrolments, Marks uploading of Internal Assessments (Theory and Practical) and end-Semester Practical, Examination Form fill-up (Regular and Backlog), Scrutiny and Review process are carried out by the Departmental Exam Coordinators under the advice of HoDs and IC, Exam of the Institute.

Internal Assessment marks and end-semester final lab marks are

scrutinized by Departmental Marks Moderation Committee headed by the HoDs and being endorsed the marks are uploaded by individual subject teacher tagged by the university.

The requirement for setting question papers are informed to the Principal and the IC(Exam), by the University which is sent to the HoDs for distribution amongst the faculty members in confidential manner.

End-Semester Paper checking is carried out by individual tagged teachers.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Strategic plan of the institute is displayed in the website.

The College is working on Three Es - Equity in education and Excellence in academics which will together lead to optimum levels of Employability.

Case study:

Institute have set their priorities as being a prime aide in employment generation for their students. A few comprehensive strategic changes over the last two years have redefined the performance standards.

The Campus team comprising of senior and experienced professors monitor the training and placement activities since July, 2018

alongside the Training & Placement Team of Kolkata. The team had refurbished the complete training process making a few vital changes with three distinct components, Aptitude, Technical and Verbal & Soft Skills; as a result during the academic year

In the 2022-23 Academic year students got a total 516 single job offers which is almost 64.4% of total pass out students.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRI_TERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The Institute has an internal Organizational Structure that has evolved over 20 years which is displayed in the website.

The hierarchy is followed at every level.

The Institute is managed by the Board of Governors (BOG).

The Institute has decentralized its operations and has delegated authority at various levels to ensure good governance.

The Statutory bodies of the College are the Academic Council

(AC) and Internal Quality Assurance Cell (IQAC) framed as per norms of AICTE. These bodies play an important role in framing policies and its execution.

The Principal is the academic and administrative head who monitors the overall functioning and growth of the

Institute. Principal acts as the Member-Secretary of the BOG and the Chairman of Academic Council and IQAC.

The involvement of the effective leadership is achieved through the well-defined system and organizational structure.

The Institute has Service and Recruitment Rules as per the norms of the Government of West Bengal.

Promotion Rules are as per the norms of AICTE/ Government of West Bengal.

Service Rules & Regulations are displayed in the website for dissemination amongst the faculty and staff.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2022-23/CRITERIA_6/6_2/6_2/2/ADDITIONAL_INFORMATION/
Link to Organogram of the institution webpage	https://bcrec.ac.in/public/pdf/BCREC_BOG_STRUCTURE_PRESENT.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

B. Any 3 of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Progress of an organization depends on its employees. The Institute has effective welfare schemes for the benefit of its teaching and non-teaching staff. All faculty and staff are insured for medical coverage. Institute encourages its teachers in acquiring the latest skills by deputing them for various programs/conferences. Institute supports the teachers by providing Special Leave/Study Leaves to pursue Project/Doctoral/Post- Doctoral research. The Institute has rules for Leaves, DA and HRA, EPF, Gratuity, ESIC scheme, Medical insurance of Rs 1.50 lakhs, Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are

mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. Sports, Gym (male & female), Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. The Institute has Grievance Redressal committee, Internal complain committee, SC/ST Committee responsible to sort out the issues/complaints, if raised by any staff.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

18

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

164

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

180

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

From 2022-23 academic year the institute according to the prescribed standard guidelines developed a Academic Performance Indicator (API) system. API scores are proposed for (a) teaching related activities; (b) domain knowledge; (c) participation in

examination and evaluation; (d) contribution to innovative teaching, new courses etc. The minimum API score required by teachers from this category is 75. The self assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee. API scores are proposed for co- curricular and extension activities; and Professional development related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee. API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

College conducts internal and external financial audits regularly.

A. Internal Audit

The Internal audit is entrusted to qualify Auditors who carry out internal audit checks every quarter and they do a thorough check and verification of all financial transactions with the supporting documents and approval of proper authority for each transaction. The financial transactions are accounted in Tally. ERP by the college. Internal Auditor will examine all vouchers on cent percent basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. On

such verification any errors or omissions and commissions when pointed out by the audit team are immediately corrected/rectified and precautionary steps are taken to avoid recurrence of such errors in future.

B. External Audit

All the financial transactions of the college are audited by an external agency. The external audit is carried out by the auditors as per the provisions of the Government rules and regulations. The College has maintained the highest level of transparency in all financial transactions. It may be seen from the audited reports that all the financial transactions are carried out as per the standard norms.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Being a self-financed institute, fee collection is the only major source of revenue/income generation for the institute.

The annual budget is prepared according to the need

and requirements of the departments taking into consideration the annual intake of students, laboratory and infrastructure development, students, faculty & staff requirements and promotions and latest technologies etc.

The college obtains proposals from the concerned departments regarding expenditure in an academic year, which is matched with the projected income for an academic year and is consolidated by the Principal of the College for approval by the Society that manages the affairs of the College. Once it is approved by the Society, the Principal apprises the Departments of the allocation so that re-appropriation of budget outlays are avoided or kept to the minimum. After the allocation, the departments can avail the financial resources within the given limit.

Purchases are made with the recommendations of duly constituted purchase committee. If any expenditure is made beyond budget sanctioned, it gets ratified in a special meeting.

Our object for resource mobilisation and optimal utilisation of resources puts in the forefront quality of education and growth of students, as the primary and fundamental objective.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRI_TERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

As an IQAC quality initiative, all the departments were suggested to initiate Research Proposal and consequently submit to the funding agencies for procuring Govt. fund as well as begin Industry-Institute partnership through MoU signing.

Practice - 1

In AY 2022-23, Electrical department received a grant of Rs. 5 lakhs from DA&FW (Pre-Seed Stage Funding). This is part of a startup. Also, faculty members started submitted patent. The overall publication in conference and journal increases. Faculty

members are provided with motivational financial support for publishing in journal and for conference registration. IQAC taken initiative in formulating the new research policy which includes the above.

Practice - 2

As part of IQAC quality initiative institute has signed MoUs with DCG-Data Core System India Pvt. Ltd. and ISOAH Data Securities Pvt. Ltd. As part of these students have done course on Cyber Security which is out of their curriculum. Also as part of existing MoU, with the IQAC initiative students went for internship programmes at NHAI and CSIR-CMERI. IQAC has taken initiative that all the existing MoUs remain functional with at least one activity as part of the MoU. Some field visits are also organized as part of the MoU.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

(1) To have an effective teaching-learning process, IQAC has taken initiative for implementation of teaching learning through Learning Management system (e.g CANVAS). In some cases this has been implemented. It will be completely implemented from 2023-24 academic year.

IQAC further suggested that the students should be counseled through the Mentors to reduce the stress in students. Faculty Mentors remained always in touch with the Mentees and took care of the students as their Guardians which improved personal bonding, teaching-learning process and improvement of attendance.

(2) IQAC suggested for Academic-Administrative Audits for all the departments to be made mandatory for overall improvement of teaching-learning process. Also IQAC has suggested that an external academic audit should be conducted.

(3) Re-structuring of Feedback system following the OBE process IQAC suggested that Feedback system should be re-structured following the OBE process and the corrective measures should be taken by the departments for implementation. IQAC suggested for availability of course wise feedback for laboratory and theory classes for each semester through website. The same has been implemented and course wise feedback will be taken from 2023-24 AY.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://srv15-bcrec.in/vc/IQAC/BCREC_IQAC_REPORT.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- Gender sensitivity is an extremely important topic. The Institute arranges activities and events on a regular basis to raise awareness about the problem. The Institute's goal is to promote gender parity by hosting seminars, debates, and group discussions for both boys and girls on a single platform, as well as a public awareness campaign about women's empowerment and gender sensitivity, cybercrime, and self-defense.
- As per the rules and regulations of the Statutory Separate Common Rooms for Boys and Girls, basic facilities exist in the college. Counseling for both female and male students is provided on a regular basis by the female faculty members of the aforementioned committees.
- In collaboration with police officials from the surrounding area, Durgapur, and the Burdwan district, awareness programs on women's empowerment and gender sensitivity, cybercrime, and self-defense were held on the college grounds in 2022, and female collectives from the institute enthusiastically participated.

File Description	Documents
Annual gender sensitization action plan	https://bcrec.ac.in/GenderSensitizationActionPlan.pdf
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRIERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

- Environmental protection is a top priority at the Institute. A sustainable campus environment is something the institute is constantly working toward, and it has made great strides in creating one.
- The campus's verdant landscape is maintained by a hardworking crew of gardeners and sweepers who attend to the grounds on a daily basis.
- The Institute has organized seminars, webinars, NSS cells, and other educational events to educate its staff and students in compliance with the Swachha Bharat Abhiyan.
- The Institute's technique for disposing of waste is quite effective. Durgapur Municipality gathers garbage that won't break down in the environment, and then they sort the organic waste to make compost that residents can utilize. Green and blue trash cans are used for solid waste separation at the hostel and cafeteria.
- The municipal sewage system receives the collected liquid waste.
- An E-waste collecting company buys the finished product from innovation laboratories, where students salvage the parts.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available

C. Any 2 of the above

**in the Institution: Rain water harvesting
Bore well /Open well recharge Construction
of tanks and bunds Waste water recycling
Maintenance of water bodies and
distribution system in the campus**

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment

5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

B. Any 3 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

- The Institute is well-known not just for its academic quality but also for its HR practices that promote empathy, societal consciousness, and harmonious interaction with its surroundings and sensibilities.**
- Faculty, staff, and students at the institute are from all**

around India, and they enjoy each other's festivals, music, and art. Orientation programs for students include some artistic offerings from each of the students' home states. The diversity of musical and cultural performances is reflected in student bands and cultural activities.

- Linguistic disparities are accommodated by using a common professional language, such as English, during working hours.
- Divisions within communities are uncommon. The Institute has a strong and long-standing commitment to social responsibility. The NSS Cell has been involved in numerous socially responsible efforts, such as charity initiatives for the needy in society.
- Ramps, elevator facilities, and even specific supporting staff members are provided for differently-abled students, workers, or teachers.
- During the Soft Skills Sessions, group discussions on LGBTQ awareness, rights, and empowerment are covered. This is done to alleviate student concerns and apprehensions from the start of hostel living while also encouraging awareness and inclusivity in the approach to campus life.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

- The Institute is well aware of its important role as the architect of India's next generation. In both speech and deed, the Institute is committed to the philosophy of the Indian Constitution. The Institute is well aware of its important role as the architect of India's next generation. In both speech and deed, the Institute is committed to the philosophy of the Indian Constitution.
- A copy of the Preamble to the Constitution is kept in the welcome area of the main office building to highlight the emphasis the Institute places on it.
- The Preamble is recited verbatim by the Institute as a symbol of their renewed dedication to the Constitution on Constitution Day.

- Through several programs, such as the New India Pledge ceremony on Republic Day and Independence Day, the Institute seeks to inculcate in its students a sense of responsibility towards the Constitution.
- The course Constitution of India/Essence of Indian Knowledge and Traditions is taught as part of the curriculum; however, it is not credit-bearing.
- Following the ideals and values of community service, the institute organizes the Swacch Bharat and Swasth Bharat Initiatives regularly.
- Annually, the Organ Donation Pledge Workshops are organized by the National Service Scheme (NSS) in collaboration with non-governmental organizations (NGOs) to inform students about the critical need for more people to donate their organs.
- Every year, World Environment Day is marked with tremendous passion on campus by planting trees.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/
Any other relevant information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

B. Any 3 of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

- On a national and international scale, the Institute has an extensive tradition of commemorative days, anniversaries, and festivals.
- The institute's buildings are named after notable persons and visionaries, such as Vidyasagar Bhawan, Ashutosh Bhawan, Mahalanabish Bhawan, Sister Nivedita Girls Hostel, Chittaranjan Boys Hostel, Satyen Bose Boys Hostel, and so on.
- The gardens are named after individuals, such as Bidhan Udyan, Rabindra Udyan, Vivek Udyan, and so on.
- Independence Day and Republic Day are traditionally celebrated at the institute with tremendous enthusiasm and fervour. A parade of NCC members by the student group, the principal's address, the singing of the national anthem, and the unfolding of the tricolour national flag are all part of the celebrations.
- Another major event that instills passion and loyalty to our nation's constitution is the Constitution Day celebration, which commemorates the adoption of the Indian Constitution in 1950.
- The Vivek Udyan is named in honour of Swami Vivekananda, and the institute makes every effort to commemorate the anniversary of his birth. The institute commemorates National Education Day to celebrate the efforts of Bharat Ratna Maulana Abul Kalam Azad.
- The Institute commemorates Teachers Day on September 5th,

the birth anniversary of Dr. S. P. Radhakrisnan.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice 1 Career Guidance Training

In today's ever-changing dynamism, Career Guidance to the students is the most vital aspect of college education so that the students can serve the needs of the ever-changing and dynamic market needs. Students are trained on Communication & Presentation Skills (using language lab) imparted by the faculty members of English Department. Specific training is provided to the students by hiring different Professional agencies e.g. Co-cubes, Bangalore. At the individual department level, Career Guidance is provided to the students through Alumni interaction to help them explore various career options. Students are encouraged to participate in technical contests, carry out project work, undergo internships and also organize various technical fests and social activities to enhance their knowledge through experiential learning. Different MoUs with CSIR-CMERI and Capgemini are signed for helping students for better career guidance through industry academia interactions. Entrepreneurship also promoted by E-Cell of collaboration Institute Innovation Council(IIC).

Best Practice 2 Content beyond Curriculum

The main objective of the practice is to help students to groom in a progressive environment to become competent professionals through necessary skill development and self-learning such that they can involve in innovation and creative thinking. As a nodal

center of NPTEL, the institute has been recognized as an ACTIVE and one of the top 100 local chapters. Students enrol for MooCs courses through NPTEL for obtaining knowledge on content beyond curriculum. The newly set up AICTE IDEA Lab provide students to develop their skills in different emerging areas.

File Description	Documents
Best practices in the Institutional website	https://bcrec.ac.in/public/pdf/BCREC_BEST_PRACTICES.pdf
Any other relevant information	https://srv15-bcrec.in/vc/AQAR_2022-23/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute is celebrating more than two decades of its meaningful contribution in the promotion of higher technical education with a focus on sustainable growth through industrial tie-ups, faculty expertise and media relationships. Earning media reputation over the years is one distinctive area to its priority and thrust.

Institute has signed up MoUs with different organizations e.g. CSIR-CMERI , Capgemini, ISOAH, DataCore etc to have a more enhanced industry academia relationship. Students are participating in the internship programs of CSIR-CMERI and NHAII like organizations as part of the MoUs.

Institute has also focused on developing an innovation culture among the students and faculty members. Aligned to this goal institute has setup Institute Innovation Council (IIC) and encouraging students and faculty members towards developing innovative ideas which will convert to some kind of usable products.

The AICTE IDEA lab has been setup in the institute to encourage concept ideation using the lab. Also, IDEA lab is helping students and teachers / faculty members of nearby different other institutes to develop skills in the emerging areas. Building up of an innovation hub is under progress as part of MoU with VITTI Research Foundation.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. Research and Consultancy - System and Process Design to increase the Publication in Journals/Conferences.

2. Entrepreneurship - Stages for training and Mentoring starting from Year 1 till Final Year. Setting up of Student Professional Organizations.

3. AIML for all - Introduction Workshop and Courses for AIML for other Programmes such as Electrical/Mechanical/Civil/Electronics, etc.

4. Industry Collaborations - Signing and Collaborating with Industry and Organizations for Joint Projects and Consultancy activities.

5. Quantum Computing - Setting up the Center of Excellence in Quantum Computing in Collaboration with Industry Partners.

6. International Collaboration - Association and Joint Research Group with International University/Organization for professional activities

7. Skilling based Training to All - In addition with conventional teaching and learning plan to offer online courses and skills to others in the area of 5G/6G/ AIML Quantum Computing , Drone and Robotics, Smart Cities, Autonomous vehicles etc.