



YEARLY STATUS REPORT - 2023-2024

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-AQAR-2022-23.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/bcrec_old/Calendar_July23_June24.pdf				
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	ATAL FDP	AICTE	2023	3.5 lakhs	
8.Whether composition of IQAC as per latest NAAC guidelines			Yes		
• 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)		
<p>IQAC was instrumental for initiating and completing the reaccreditation process for Computer Science Engineering and Electronics and Communication Engineering department. Both department got reaccredited till 30th June 2026 i.e. end of academic year of 2025-26</p>		
<p>IQAC has taken initiative for in house development of an integrated ERP system. Module by module development and implementation is in progress. It is expected that by 2024-25 Academic year the same can be fully implemented.</p>		
<p>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 registering for Academic Bank of Credit in alignment with NEP 2020 policy.</p>		
<p>IQAC has initiated the process of getting Autonomous status of the institute from UGC. The application for the same has ben submitted on 07th November,2023.</p>		
<p>IQAC Coordinator has worked as a mentor for one institute as assigned by the Govt of West-Bengal for hand holding in the NAAC accreditation process.</p>		
<p>Through IQAC initiative, efforts have been taken to improve on the institute industry collaboration framework using the Institute Industry Partnership Cell. MoUs are signed as part of this</p>		

initiative. Also, the institute is getting involved in the process of providing consultancy services to industry problems.

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 has been also conducted as per the suggestion given by the NBA team during their visit of Computer Science and Electronics and Telecommunication Departments. For each department external audit has been done by specialized person in that domain.
Re accreditation of NBA Accreditation of CSE and ECE Department	ECE and CSE department successfully submitted NBA prerequisite and SAR. Following that NBA team visited. ECE and CSE department reaccredited upto 30th June of 2025-26.
Autonomy status of the institute from UGC	Initiatives were taken for getting autonomous status. Application submitted on 07th Nov, 2023. Waiting for autonomy status.
Institute Industry interaction framework improvement	IQAC has taken initiative on the institute industry framework improvement through the Institute Industry Partnership Cell. Some significant

	achievements are signing of MoUs with different organizations as well execution of some industry projects.
New In-House ERP solution for the Insitute	IQAC has taken initiative with the In house IT cell of the institute for the development of end to end ERP solution for the institute. The same will be made ready by 2024-25 Academic year.

13.Whether the AQAR was placed before statutory body?	Yes
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- Name of the statutory body

Name	Date of meeting(s)
Board of Governors	23/11/2024

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/multidisciplinary 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 has applied for Autonomous status. Once the Autonomy is obtained, more structured way of offering multidisciplinary subjects will be done through Open Electives offered by different departments.

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 has been sent to the students through the department. The Institute has also applied for Autonomy. Once this status is received institute will ensure that ABC is created by all students.

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 equipment like CNC Router, 3D printing, LASER Cutter, 3D Scanning procured in AICTE IDEA Lab. ACITE IDEA Lab has dedicated Tech Gurus to impart the skill and knowledge. 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. Different skill development programs are also done through the mandatory internship / vocational training of the students and also through different site visits.

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 MooCs 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. Institute has applied for Autonomous status. Once the same is received from 2023-24 academic year, one course on Indian Knowledge system will be included in the curriculum.

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 / attainment 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 types of e-content materials (including recorded lecture videos in the class) prepared by faculty members to all students through website. Institute allows the M.Tech students to pursue their regular classes on hybrid mode (online / offline). Institute has taken initiatives 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. Many courses were offered through LMS by different departments. From coming academic year 2024-25 course delivery through LMS (CANVAS) will be mandated from even semester.

Extended Profile

1.Programme	
1.1 Number of courses offered by the institution across all programs during the year	1012
File Description	Documents
Data Template	View File
2.Student	
2.1 Number of students during the year	2986
File Description	Documents
Institutional Data in Prescribed Format	View File
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	342
File Description	Documents
Data Template	View File
2.3 Number of outgoing/ final year students during the year	715
File Description	Documents
Data Template	View File
3.Academic	
3.1 Number of full time teachers during the year	181
File Description	Documents
Data Template	View File
3.2	154

Number of sanctioned posts during the year	
File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	62
4.2 Total expenditure excluding salary during the year (INR in lakhs)	1437.09
4.3 Total number of computers on campus for academic purposes	1200

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 following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.

C. Any 2 of the above

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	View File
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)

41

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

3012

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 Professionis 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

11

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

815

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 **A. Feedback collected, analyzed**

be classified as follows

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

971

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

211

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

- **Student Diversity and Learning Assessment:**

- The Institute admits students from diverse social and economic backgrounds, recognizing the impact of individual talents and other factors on learning outcomes.
 - A structured assessment system is in place to evaluate students' learning levels.
- **Assessment Process:**
 - Initial evaluation occurs during the AICTE Induction Programme, where instructors assess individual students.
 - Mentors conduct one-on-one sessions to evaluate mentees' academic performance, behavior, and social/psychological traits.
- **Support for Slow Learners:**
 - Additional sessions are provided to address needs, focusing on improving basic skills in mathematics and English.
 - Remedial classes are conducted for slow learners to help them improve.
- **Opportunities for All Learners:**
 - Both slow and advanced learners are encouraged to:
 - Participate in webinars, seminars, and expert lectures.
 - Join professional organizations like IEEE, CSI, IEI, and E-Cell.
 - Publish papers and engage in innovative projects and research.
 - Enroll in MOOCs and pursue certifications.
 - Take part in competitive exams such as GATE, GRE, CAT, and others.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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
2986	181

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 and mini-projects
 - Technical reports and case studies
 - Simulations and experimental exercises
 - Lab experiments
 - Class assignments and quizzes

- **Individual Learning:**
 - E-learning tools like NPTEL videos, SWAYAM, Coursera, and IIT Bombay Spoken Tutorial Project allow students to learn independently and supplement classroom learning.
 - Students are encouraged to enroll in add-on online courses for self-paced learning and certification.

- **Experiential Learning:**
 - Practical sessions enable students to apply classroom concepts in real-world scenarios.
 - Internships and vocational training provide hands-on experience.
 - Final-year group projects, technical fests, and workshops enhance practical skills.

- Short visits to nearby industries and labs offer exposure to real-world environments.
- Participative/Collaborative Learning:
 - Participation in intra-college, state, and national project competitions and technical festivals promotes research and development.
 - Invited talks by industry and academic experts, including alumni, foster knowledge exchange.
 - MOUs with leading industries help align the curriculum with industry needs.
- Problem-Based Learning:
 - Encourages critical thinking as students work to solve real-life problems.
 - Faculty track learning outcomes from these initiatives to measure success and improvement.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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

Teachers use Information and Communication Technology (ICT) tools to enhance the teaching-learning process, making it more engaging and efficient. 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.

- The institute features dedicated digital classrooms across all programs, equipped with multimedia teaching aids, including LCD projectors, internet-enabled computers, and modern teaching tools.
- There are nine smart classrooms equipped with projectors and

Wi-Fi, facilitating interactive learning.

- An internally developed online examination system is accessible to students via LAN or the internet.
- ICT-enabled tools are used for grooming, communication skills, and mock tests.
- The library subscribes to a wide range of e-journals in Engineering, Science, and Management, offering access to both online and offline databases.
- The academic process is managed through the university's integrated academic management system.
- The institute has implemented an ICT-based student admission and payment system for semester and hostel fees.
- Two seminar halls and two auditoriums are equipped with multimedia facilities to support various academic activities.

Additionally, ICT fosters collaboration and communication between students and teachers, both inside and outside the classroom.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

145

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

181

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

87

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

2248

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.

- The institute prepares its academic calendar ahead of each semester, aligning it with the University's Academic Calendar.
- The calendar outlines syllabus coverage, Continuous Assessments (CAs) for theory, and Practical/Sessional Course Assessments (PCAs) for laboratory subjects.
- Any changes in schedules, patterns, or methods are promptly communicated to students.
- Class teachers inform students of the syllabus for upcoming tests well in advance.
- Internal assessments for theory and lab papers are conducted through multiple Continuous Assessments (CA1, CA2, CA3, CA4) and PCAs (PCA1, PCA2).
- Standard formats for question papers are created, based on Course Outcomes (COs) for Continuous Assessment (CA) subjects.
- Departmental committees review and moderate question papers to ensure they align with the COs and maintain quality.
- The institute uses digital evaluation for semester-end exams, which improves the speed and transparency of the assessment process.
- Students are allowed to report any discrepancies in the assessment.
- Following MAKAUT guidelines, the institute ensures complete transparency in the internal assessment process, strengthening faculty-student relations.
- The examination system of the institute is fully transparent.

This thorough and transparent approach strengthens the trust between faculty and students, fostering a fair and efficient evaluation environment.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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 mechanism for addressing internal examination-related grievances at the institute is designed to be transparent, time-bound, and efficient.

- **Transparency:** All assessment processes, including viva-voce and lab evaluations, are explained clearly to students,

ensuring they understand the evaluation criteria. Project seminars are held in front of the entire class, further promoting transparency in internal assessments.

- **Time-bound:** Once the results are published, students have a specific period to apply for Post-Publication Scrutiny (PPS) or Post-Publication Review (PPR). The examination cell processes grievances promptly within the prescribed timelines.
- **Efficiency:** The Examination Cell works closely with the university to address issues like Admit Cards and Registration Cards. Any reported exam malpractices are swiftly investigated and handled according to university guidelines. Additionally, the system allows for online cancellation of papers by invigilators, marking them as "Reported Against (RA)" for quick action.

This structured and swift approach ensures that grievances are resolved efficiently, fostering trust in the examination process.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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.

- Program and course outcomes (COs) for all offered programs are clearly stated, displayed on the institute's website, and communicated to both teachers and students.
- The institute follows outcome-based education in line with Bloom's Taxonomy, adhering to NBA guidelines.
- Program Specific Outcomes (PSOs) are identified through detailed discussions with stakeholders and are displayed in prominent locations, including labs and offices.
- The institute follows the COs specified by MAKAUT; if the university does not provide them, NBA guidelines are applied.
- POs, PSOs, and COs are shared through various platforms, such as the Institute Website, Prospectus, Course Files, Departments, and Laboratories.
- During the Induction Program, the institute informs the new batch of students about POs, PSOs, COs, and other academic details related to their programs.

- Each Course Outcome is mapped to Program Outcomes based on its relevance, with three levels of correlation: 1 for low, 2 for medium, and 3 for high.
- The contribution of each course to a particular Program Outcome is represented by the average relevance of its COs mapped to the PO.
- Values for COs related to first-year courses are also entered for corresponding POs and PSOs.
- The agreed COs serve as the foundation for achieving POs and PSOs, ultimately supporting the institute's Mission and Vision.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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 achieving Program Outcomes (POs) and Course Outcomes (COs) are continuously monitored, evaluated, and improved based on input from discussions, suggestions, and decisions made in meetings of the Department Academic Council, Academic Council, and IQAC Cell. The process for assessing COs is as follows:

- **Course Attainment Levels:** These are determined based on past performance and are expressed as the percentage of students achieving the target score.

Theory Subjects:

- **Internal Evaluation (30%):** Continuous internal assessments.
- **External Evaluation (70%):** University theory exams.

Practical Subjects:

- **Internal Evaluation (40%):** Lab performance and continuous practical assessments.
- **External Evaluation (60%):** University practical exams.

Each CO has a set target level, which is considered achieved if the attainment meets or exceeds the target. Once CO attainment is calculated, it is used to assess the level of attainment of POs and PSOs. The attainment is measured using:

- **Direct Attainment (80%):** Calculated from CO attainment based on four Continuous Assessments and the Semester Examinations.
- **Indirect Attainment (20%):** Calculated from a combination of:
 - 25% from Program Exit Survey,
 - 50% from Alumni Survey,
 - 25% from Employer Survey.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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

622

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://srv15-bcrec.in/feedback/sss-analysis/>

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)

3.5

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

22

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.aicte-india.org/atal

3.2 - Innovation Ecosystem

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

Annual Report on R&D, IPR, and Entrepreneurship Activities (AY 2023-24)

The R&D Cell encouraged faculty to submit research proposals to various funding agencies. The PRISM-DSIR project was successfully completed, and other projects are under consideration with AICTE.

An AICTE ATAL FDP was conducted to enhance faculty skills and improve the teaching-learning process.

13 patents were published and 16 granted during AY 2023-24, with additional applications submitted for approval.

The BCREC AICTE-IDEA Lab organized activities for students of BCREC and other institutions, promoting hands-on learning and innovation.

The Entrepreneurship Cell, IPR Cell, and IIC organized workshops and webinars on IPR awareness, research methodology, and startup development to foster innovation and entrepreneurship.

MOUs with RedHat Academy and Infosys Springboard provided valuable opportunities for training, research activities, internships, and placements, benefiting both students and faculty.

Financial support was provided to organize STTPs, National/International Conferences, and Symposiums, promoting knowledge creation and transfer among students and faculty.

A group of students (Team 10106) qualified ISRO Robotic Challenge-2024's 1st round with a space rover featuring stair-

climbing, image processing-based navigation, and a robotic arm manipulator.

In summary, AY 2023-24 saw significant progress in research, innovation, and entrepreneurship, enhancing academic excellence, industry readiness, and skill development.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/CRITERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/

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

25

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

6

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

73

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

155

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

The college actively engaged in extension activities to foster holistic development among students and address social issues. These initiatives, conducted through the NSS and NCC, had a significant

impact on the neighborhood community.

A "Digital Creators' Competition" was organized to raise environmental awareness. A rally raised awareness on reducing plastic use. A street play "Nukkad Natak" in Fhuljhore highlighted anti-pollution awareness. Students planted trees to promote sustainability in the college as well as nearby locality.

Faculty and students visited Bamunara Adibasi Abaitanick Primary School to promote health and hygiene practices, distributing kits and using student-made posters to celebrate World Health Day.

Students participated in a Youth Convention organized by Swami Vivekananda Vani Prachar Samity.

Literacy Awareness Campaign was conducted in a nearby primary school.

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

Women's Day is celebrated as part of Gender Sensitization programs and organized a seminar on Women at the workplace - Legal Aspect.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRITERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/
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

1

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

10

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

701

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

18

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 10.10 acres of land
- 35686 sq. m. built-up area

- Well equipped spacious 62 classrooms (13 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls (6 nos.)
- 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 and 20 computers.
- Adequate Staff rooms, Toilets, etc.
- Wi-Fi enabled campus
- Two dedicated Central Computer Centres with 257 desktops
- 30 computers in Digital Library, 189 computers in various departments and offices.
- 30 Computer labs with a total of 1200 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 437.5 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.

13

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)

1437.09

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)

26.07

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

530

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 1070 (1000+70) MBPS high-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.Exclusive internet connectivity through Wi-Fi router on OFC last mile facility is available in all hostelrooms 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.
- Most Modern Video Conference-Enabled Board Rooms and 3 Discussion Rooms.
- The IT infrastructure in the last year is tabulated below:

YEAR

2023-24

Number of Computers (in working Condition)

1419

Laptops

21

Servers

3

Wi-Fi / Access Points

79

Switches

161

Open source software

20

Types of Licensed Software

61

Printers (in working condition)

78

No. of Scanners

18

No. of Online UPS

26

No. of CCTV Cameras

118

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

4.3.2 - Number of Computers

1200

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)

281.54

File Description	Documents
Upload any additional information	No File Uploaded
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

221

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

221

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/
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

1747

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

1747

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

A. All of the above

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	View File
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

401

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

11

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

20

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.

File Description	Documents
e-copies of award letters and certificates	No File Uploaded
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)	No File Uploaded

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. Convenor and a faculty coordinator 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 Hostel council addresses issues related to infrastructure, hygiene, and amenities in the hostel 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

5

File Description	Documents
Report of the event	No File Uploaded
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. Deepraj Mondal and Mr. Aritra Mondal, members of Alumni association, are contributing actively to the IQAC and helping to enhance the quality of our college.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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

Dr. B. C. Roy Engineering College is governed by Dr. B. C. Roy Society. Members of the BoG of the College have been constituted as per the guidelines of AICTE and UGC, and meets regularly during the year. 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, 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 in every six months.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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, HoDs, CoE (Exam Department) and Registrar. 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. CoE 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 CoE, 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 CoE (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/AOAR_2023-24/CRITERIA_6/6_2/6_2_1/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. 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.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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 24 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.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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

A. All 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

Employees are the backbone of an organisation, and 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_2023-24/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

125

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

2

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

132

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 innovativeteaching, new courses etc. The minimum API score required by teachers from this category is 75. The self assessment scores 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_2023-24/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

Dr. B. C. Roy Engineering College conducts financial audits regularly. All the financial transactions of the college are audited by an external agency as well as internal auditors also. 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. The Internal audit is entrusted to qualified 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.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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)

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)	No File Uploaded

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

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 budgetsanctioned, it gets ratified in a special meeting. Our object for resource mobilisation and optimal utilisation ofresources puts in the forefront quality of education and growthof students, as the primary and fundamental objective.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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 include 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 CyberSecurity which is out of their curriculum. Also as part of existing MoU, with the IQAC initiative students went for internship programmes at NHA 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_2023-24/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 2023-24AY.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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

A. All of the above

**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)**

File Description	Documents
Paste web link of Annual reports of Institution	https://srv15-bcrec.in/vc/AQAR_2023-24/CRITERIA_6/6_5/6_5_3/Additional_Documents.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

The Institute promotes gender sensitization through seminars, debates, and discussions, fostering awareness on discrimination, harassment, and equality among boys and girls on a shared platform.

The Institute ensures its curriculum includes topics on value-based education, women empowerment, gender sensitization, and the social roles of men and women. Anti-Harassment Committee, Women Redressal Cell, and Internal Complaints Committee (ICC) have been active. Led by senior female staff, these committees work to:

1. Promote gender equality and ensure the safety and security of girl students and female staff.
2. Address and resolve grievances related to gender issues in a timely and supportive manner, providing proper guidance and counseling.

Lady faculty members regularly counsel girl students, and classes on gender issues, women's rights, and empowerment are conducted by department faculty, NSS, and the Women's Cell.

The Institute enforces a "No Discrimination Policy," ensuring equality in academics and roles, with committees like IQAC, Training & Placement, and Cultural Functions having strong representation of women faculty.

Cultural activities like Women's Day and national festivals are celebrated by all, without any gender bias. The Institute fosters a culture of coexistence and equal participation among students and faculty in all its activities.

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_2023-24/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

Located away from urban pollution, the Institute provides an eco-friendly campus fostering a close connection with nature. A dedicated team maintains the lawns, gardens, and plants, ensuring a green and sustainable environment. The Institute actively participates in the Swachh Bharat Abhiyan, organizing seminars, webinars, and NSS programs to promote cleanliness and environmental awareness among students and staff.

Waste Management Practices:

Solid Waste:

Plastic usage is minimized, and Styrofoam is banned.

Waste is segregated at the source using green bins for organic waste and blue bins for non-degradable waste.

Collected waste is disposed of by Durgapur Municipality.

Plans for a composting plant to process organic waste into manure are underway, delayed only by the pandemic.

Awareness campaigns educate students on reducing, reusing, and proper disposal of waste.

Liquid Waste:

Wastewater is directed to a septic tank connected to the municipal sewage system.

E-Waste:

Electronic devices are repaired and maintained to reduce waste.

Non-functional items are sold to scrap dealers, while printer cartridges and UPS batteries are reused or exchanged.

Plans include installing an e-waste bin to educate on proper disposal.

These initiatives reflect the Institute's commitment to a clean, green, and sustainable campus.

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 C. Any 2 of the above

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:

A. Any 4 or All of the above

- 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	View File
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 Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

B. Any 3 of the above

5.

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).

Dr. B. C. Roy Engineering College (BCREC) is renowned not only for academic excellence but also for fostering an inclusive and empathetic environment that values societal awareness and cultural diversity.

The campus is a vibrant cultural mosaic, with students, faculty, and staff from across India celebrating festivals, music, and art together. Orientation programs feature artistic performances representing students' home states, while posters and banners showcase linguistic diversity. Cultural programs mark traditional occasions and the birth anniversaries of notable personalities, promoting mutual respect and understanding.

BCREC prioritizes mental and physical well-being through yoga camps and workshops, especially during National Yoga Day. College holidays align with regional festivals, encouraging students to share cultural experiences and traditions. While English is the working language, care is taken to ensure no one feels excluded due to language barriers, fostering a supportive environment for growth and learning.

The NSS Cell actively engages in charitable initiatives to support the underprivileged, reflecting the college's commitment to social responsibility. Inclusivity is further emphasized through accessibility measures for differently-abled individuals and open discussions on LGBTQ+ awareness, helping normalize diversity.

At BCREC, socio-economic differences fade as students and staff unite to build a harmonious, respectful, and inclusive community.

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

Dr. B. C. Roy Engineering College (BCREC) is committed to nurturing responsible citizens by instilling the principles of the Indian Constitution. A framed copy of the Preamble is prominently displayed in the college lobby, symbolizing respect for constitutional values.

Significant occasions at BCREC begin with speeches honoring the vision of India's founding fathers. On Constitution Day, the entire community recites the Preamble, reaffirming their allegiance. Values and Ethics classes encourage students to reflect on constitutional principles through assignments and projects.

Key Initiatives Promoting Constitutional Values:

Republic Day & Independence Day: Participation in the "New India Pledge" ceremony.

Curriculum Integration: Courses on the Indian Constitution and Indian traditions are offered, including non-credit options.

Faculty and students visited nearby School to promote health and hygiene practices, distributing kits to celebrate World Health Day.

A "Digital Creators' Competition" was organized to raise environmental awareness. A rally raised awareness on reducing plastic use. A street play "Nukkad Natak" in Fhuljhore highlighted anti-pollution awareness. Students planted trees to promote sustainability in the college as well as nearby locality.

Entrepreneurship Promotion: E-Cell workshops inspire students to become job creators.

Through these initiatives, BCREC remains dedicated to upholding constitutional values, fostering inclusivity, sustainability, and societal progress.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://srv15-bcrec.in/vc/AQAR_2023-24/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/
Any other relevant information	https://srv15-bcrec.in/vc/AQAR_2023-24/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 C. Any 2 of the above

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

The Institute celebrates national and international commemorative days, events, and festivals with enthusiasm, fostering learning about the values and principles of great personalities. Regular updates on these celebrations are shared on the Institute's social media platforms.

Key Celebrations:

Republic Day & Independence Day: Celebrated with flag hoisting, an NCC parade, speeches on Fundamental Rights and Duties, and the "New India" pledge.

Gandhi Jayanti: NSS volunteers pay tribute to Mahatma Gandhi's values through meaningful activities.

Constitution Day: Observed to raise awareness about the adoption and significance of the Indian Constitution.

Youth Day: Inspirational speeches highlight his teachings on Youth Day.

Rabindranath Tagore's Birth Anniversary (25th Baisakh): Celebrated with music, recitation, and speeches at Rabindra Kanan.

Dr. B. C. Roy's Birth & Death Anniversary (1st July): Memorial service honors his contributions.

Teachers' Day: Students honor teachers with cultural performances, gifts, and gratitude.

NSS Day: Celebrated with programs and student activities.

Engineers' Day: A tribute to Bharat Ratna M. Visvesvaraya.

World Environment Day: Tree plantation drives promote a green campus.

Dulal Mitra Remembrance Day: Tributes are paid to Late Dulal Mitra, the beloved President of BCREC Society.

These celebrations enrich campus life, instilling cultural awareness and values among students.

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 and Training

In today's rapidly evolving job market, career guidance plays a crucial role in preparing students for professional success. The Institute focuses on equipping students with essential skills to meet industry demands. Communication and Presentation Skills training is imparted through the Language Lab, with faculty from the English Department guiding students. To further enhance employability, professional agencies like Cocubes, Bangalore are engaged to provide specialized training.

At the departmental level, alumni interactions are organized to help students explore diverse career opportunities and gain insights into industry trends. Students are encouraged to participate in technical contests, internships, project work, and organize technical fests and social activities, fostering experiential learning. Industry-academia collaborations are strengthened through MoUs with Redhat Academy, Infosys, providing students with career guidance and exposure to real-world scenarios. Entrepreneurship is actively promoted through the E-Cell in collaboration with the Institute Innovation Council (IIC).

Best Practice 2: Content Beyond Curriculum

The objective of this practice is to develop students into competent professionals by promoting skill development, self-learning, and creative thinking. As a Nodal Center of NPTEL, the Institute has been recognized among the top 100 local chapters. Students enroll in MOOCs courses via NPTEL to gain knowledge beyond the curriculum.

The recently established AICTE IDEA Lab empowers students to enhance their skills in emerging technologies and encourages innovation and hands-on learning. This initiative ensures students remain industry-ready and capable of addressing contemporary challenges through creative solutions.

File Description	Documents
Best practices in the Institutional website	https://bcrec.ac.in/public/pdf/BCREC_BEST_PR_ACTICES.pdf
Any other relevant information	https://srv15-bcrec.in/vc/AOAR_2023-24/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, with over two decades of excellence, has made significant contributions to higher technical education by fostering sustainable growth through industrial collaborations, faculty expertise, and strong media presence. Building a reputable image in the education sector remains a key priority.

To strengthen industry-academia relationships, the Institute has signed MoUs with renowned organizations such as CSIR-CMERI, Capgemini, ISOAH, Redhat Academy, SAIL-DSP. These partnerships enable students to participate in internship programs with organizations like CSIR-CMERI and NHAI, enhancing their practical knowledge and industry exposure.

The Institute is also committed to developing an innovation-driven culture among students and faculty. To achieve this, the Institute Innovation Council (IIC) was established, encouraging the transformation of innovative ideas into tangible, usable products.

Furthering this vision, the Institute has set up the AICTE-IDEA Lab, which provides a platform for concept ideation and skill development in emerging areas. The lab also supports students and faculty from neighboring institutions, fostering a collaborative learning environment.

For the past 2-3 years, students have actively participated in various national level hackathons, successfully qualifying through multiple rounds. To further enhance their performance, the college organizes an Internal Hackathon to identify and select groups with the potential to excel at the national level.

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 following activities related to curriculum development and assessment of the affiliating

C. Any 2 of the above

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	View File
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)

41

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

3012

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

11

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

815

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

971

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

211

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

- **Student Diversity and Learning Assessment:**
 - The Institute admits students from diverse social and economic backgrounds, recognizing the impact of individual talents and other factors on learning outcomes.
 - A structured assessment system is in place to evaluate students' learning levels.
- **Assessment Process:**
 - Initial evaluation occurs during the AICTE Induction Programme, where instructors assess individual students.
 - Mentors conduct one-on-one sessions to evaluate mentees' academic performance, behavior, and social/psychological traits.

- **Support for Slow Learners:**
 - Additional sessions are provided to address needs, focusing on improving basic skills in mathematics and English.
 - Remedial classes are conducted for slow learners to help them improve.

- **Opportunities for All Learners:**
 - Both slow and advanced learners are encouraged to:
 - Participate in webinars, seminars, and expert lectures.
 - Join professional organizations like IEEE, CSI, IEI, and E-Cell.
 - Publish papers and engage in innovative projects and research.
 - Enroll in MOOCs and pursue certifications.
 - Take part in competitive exams such as GATE, GRE, CAT, and others.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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
2986	181

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 and mini-projects
- Technical reports and case studies
- Simulations and experimental exercises
- Lab experiments
- Class assignments and quizzes

- **Individual Learning:**

- E-learning tools like NPTEL videos, SWAYAM, Coursera, and IIT Bombay Spoken Tutorial Project allow students to learn independently and supplement classroom learning.
- Students are encouraged to enroll in add-on online courses for self-paced learning and certification.

- **Experiential Learning:**

- Practical sessions enable students to apply classroom concepts in real-world scenarios.
- Internships and vocational training provide hands-on experience.
- Final-year group projects, technical fests, and workshops enhance practical skills.
- Short visits to nearby industries and labs offer exposure to real-world environments.

- **Participative/Collaborative Learning:**

- Participation in intra-college, state, and national project competitions and technical festivals promotes research and development.
- Invited talks by industry and academic experts, including alumni, foster knowledge exchange.
- MOUs with leading industries help align the curriculum with industry needs.

- **Problem-Based Learning:**
 - Encourages critical thinking as students work to solve real-life problems.
 - Faculty track learning outcomes from these initiatives to measure success and improvement.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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

Teachers use Information and Communication Technology (ICT) tools to enhance the teaching-learning process, making it more engaging and efficient. 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.

- The institute features dedicated digital classrooms across all programs, equipped with multimedia teaching aids, including LCD projectors, internet-enabled computers, and modern teaching tools.
- There are nine smart classrooms equipped with projectors and Wi-Fi, facilitating interactive learning.
- An internally developed online examination system is accessible to students via LAN or the internet.
- ICT-enabled tools are used for grooming, communication skills, and mock tests.
- The library subscribes to a wide range of e-journals in Engineering, Science, and Management, offering access to both online and offline databases.
- The academic process is managed through the university's integrated academic management system.
- The institute has implemented an ICT-based student admission and payment system for semester and hostel fees.
- Two seminar halls and two auditoriums are equipped with multimedia facilities to support various academic activities.

Additionally, ICT fosters collaboration and communication between students and teachers, both inside and outside the classroom.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

145

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

181

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

87

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**

2248

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.

- The institute prepares its academic calendar ahead of each semester, aligning it with the University's Academic Calendar.
- The calendar outlines syllabus coverage, Continuous Assessments (CAs) for theory, and Practical/Sessional Course Assessments (PCAs) for laboratory subjects.
- Any changes in schedules, patterns, or methods are promptly communicated to students.
- Class teachers inform students of the syllabus for upcoming tests well in advance.
- Internal assessments for theory and lab papers are conducted through multiple Continuous Assessments (CA1, CA2, CA3, CA4) and PCAs (PCA1, PCA2).

- Standard formats for question papers are created, based on Course Outcomes (COs) for Continuous Assessment (CA) subjects.
- Departmental committees review and moderate question papers to ensure they align with the COs and maintain quality.
- The institute uses digital evaluation for semester-end exams, which improves the speed and transparency of the assessment process.
- Students are allowed to report any discrepancies in the assessment.
- Following MAKAUT guidelines, the institute ensures complete transparency in the internal assessment process, strengthening faculty-student relations.
- The examination system of the institute is fully transparent.

This thorough and transparent approach strengthens the trust between faculty and students, fostering a fair and efficient evaluation environment.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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 mechanism for addressing internal examination-related grievances at the institute is designed to be transparent, time-bound, and efficient.

- **Transparency:** All assessment processes, including viva-voce and lab evaluations, are explained clearly to students, ensuring they understand the evaluation criteria. Project seminars are held in front of the entire class, further promoting transparency in internal assessments.
- **Time-bound:** Once the results are published, students have a specific period to apply for Post-Publication Scrutiny (PPS) or Post-Publication Review (PPR). The examination cell processes grievances promptly within the prescribed timelines.
- **Efficiency:** The Examination Cell works closely with the university to address issues like Admit Cards and

Registration Cards. Any reported exam malpractices are swiftly investigated and handled according to university guidelines. Additionally, the system allows for online cancellation of papers by invigilators, marking them as "Reported Against (RA)" for quick action.

This structured and swift approach ensures that grievances are resolved efficiently, fostering trust in the examination process.

File Description	Documents
Any additional information	View File
Link for additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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.

- Program and course outcomes (COs) for all offered programs are clearly stated, displayed on the institute's website, and communicated to both teachers and students.
- The institute follows outcome-based education in line with Bloom's Taxonomy, adhering to NBA guidelines.
- Program Specific Outcomes (PSOs) are identified through detailed discussions with stakeholders and are displayed in prominent locations, including labs and offices.
- The institute follows the COs specified by MAKAUT; if the university does not provide them, NBA guidelines are applied.
- POs, PSOs, and COs are shared through various platforms, such as the Institute Website, Prospectus, Course Files, Departments, and Laboratories.
- During the Induction Program, the institute informs the new batch of students about POs, PSOs, COs, and other academic details related to their programs.
- Each Course Outcome is mapped to Program Outcomes based on its relevance, with three levels of correlation: 1 for low, 2 for medium, and 3 for high.
- The contribution of each course to a particular Program Outcome is represented by the average relevance of its COs mapped to the PO.
- Values for COs related to first-year courses are also entered for corresponding POs and PSOs.

- The agreed COs serve as the foundation for achieving POs and PSOs, ultimately supporting the institute's Mission and Vision.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AOAR_2023-24/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 achieving Program Outcomes (POs) and Course Outcomes (COs) are continuously monitored, evaluated, and improved based on input from discussions, suggestions, and decisions made in meetings of the Department Academic Council, Academic Council, and IQAC Cell. The process for assessing COs is as follows:

- **Course Attainment Levels:** These are determined based on past performance and are expressed as the percentage of students achieving the target score.

Theory Subjects:

- Internal Evaluation (30%): Continuous internal assessments.
- External Evaluation (70%): University theory exams.

Practical Subjects:

- Internal Evaluation (40%): Lab performance and continuous practical assessments.
- External Evaluation (60%): University practical exams.

Each CO has a set target level, which is considered achieved if the attainment meets or exceeds the target. Once CO attainment is calculated, it is used to assess the level of attainment of POs and PSOs. The attainment is measured using:

- **Direct Attainment (80%):** Calculated from CO attainment

based on four Continuous Assessments and the Semester Examinations.

- Indirect Attainment (20%): Calculated from a combination of:
 - 25% from Program Exit Survey,
 - 50% from Alumni Survey,
 - 25% from Employer Survey.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI_TERIA_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

622

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://srv15-bcrec.in/feedback/sss-analysis/>

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)**3.5**

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****22**

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.aicte-india.org/atal

3.2 - Innovation Ecosystem

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

Annual Report on R&D, IPR, and Entrepreneurship Activities (AY 2023-24)

The R&D Cell encouraged faculty to submit research proposals to various funding agencies. The PRISM-DSIR project was successfully completed, and other projects are under consideration with AICTE.

An AICTE ATAL FDP was conducted to enhance faculty skills and improve the teaching-learning process.

13 patents were published and 16 granted during AY 2023-24, with additional applications submitted for approval.

The BCREC AICTE-IDEA Lab organized activities for students of BCREC and other institutions, promoting hands-on learning and innovation.

The Entrepreneurship Cell, IPR Cell, and IIC organized workshops and webinars on IPR awareness, research methodology, and startup development to foster innovation and entrepreneurship.

MOUs with RedHat Academy and Infosys Springboard provided valuable opportunities for training, research activities, internships, and placements, benefiting both students and faculty.

Financial support was provided to organize STTPs, National/International Conferences, and Symposiums, promoting knowledge creation and transfer among students and faculty.

A group of students (Team 10106) qualified ISRO Robotic Challenge-2024's 1st round with a space rover featuring stair-climbing, image processing-based navigation, and a robotic arm manipulator.

In summary, AY 2023-24 saw significant progress in research, innovation, and entrepreneurship, enhancing academic excellence, industry readiness, and skill development.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI TERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/

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

25

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

6

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

73	
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

155

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

The college actively engaged in extension activities to foster holistic development among students and address social issues. These initiatives, conducted through the NSS and NCC, had a significant impact on the neighborhood community.

A "Digital Creators' Competition" was organized to raise environmental awareness. A rally raised awareness on reducing plastic use. A street play "Nukkad Natak" in Fhuljhore highlighted anti-pollution awareness. Students planted trees to promote sustainability in the college as well as nearby locality.

Faculty and students visited Bamunara Adibasi Abaitanick Primary School to promote health and hygiene practices, distributing kits and using student-made posters to celebrate World Health Day.

Students participated in a Youth Convention organized by Swami Vivekananda Vani Prachar Samity.

Literacy Awareness Campaign was conducted in a nearby primary school.

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

Women's Day is celebrated as part of Gender Sensitization programs and organized a seminar on Women at the workplace - Legal Aspect.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI_TERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/
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

1

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

10

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

701

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**

18

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 10.10 acres of land
- 35686 sq. m. built-up area
- Well equipped spacious 62 classrooms (13 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls (6 nos.)
- 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 and 20 computers.
- Adequate Staff rooms, Toilets, etc.

- Wi-Fi enabled campus
- Two dedicated Central Computer Centres with 257 desktops
- 30 computers in Digital Library, 189 computers in various departments and offices.
- 30 Computer labs with a total of 1200 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 437.5 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.

13

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)

1437.09

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)	
26.07	
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	
530	

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 1070 (1000+70) MBPS high-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. Exclusive internet connectivity through Wi-Fi router on OFC last mile facility is available in all hostelrooms 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.
- Most Modern Video Conference-Enabled Board Rooms and 3 Discussion Rooms.
- The IT infrastructure in the last year is tabulated below:

YEAR

2023-24

Number of Computers (in working Condition)

1419

Laptops

21

Servers

3

Wi-Fi / Access Points

79

Switches

161

Open source software

20

Types of Licensed Software

61

Printers (in working condition)

78

No. of Scanners

18

No. of Online UPS

26

No. of CCTV Cameras

118

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

4.3.2 - Number of Computers

1200

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)**

281.54

File Description	Documents
Upload any additional information	No File Uploaded
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	
221	
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	
221	
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/
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

1747

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

1747

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

A. All of the above

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	View File
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

401

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

11

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

20

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.

File Description	Documents
e-copies of award letters and certificates	No File Uploaded
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)	No File Uploaded

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. Convenor and a faculty coordinator 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 Hostel council addresses issues related to infrastructure, hygiene, and amenities in the hostel 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

5

File Description	Documents
Report of the event	No File Uploaded
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. Deepraj Mondal and Mr. Aritra Mondal, members of Alumni association, are contributing actively to the IQAC and helping to enhance the quality of our college.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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

Dr. B. C. Roy Engineering College is governed by Dr. B. C. Roy Society. Members of the BoG of the College have been constituted as per the guidelines of AICTE and UGC, and meets regularly during theyear. BoG members always encourage the efforts of the college team inmaintaining quality standards as well as provide guidance wherever necessary.The College has an Academic Council with Principal as Chairman, HODs and Registrar, Head (Admn.), Campus Administrator as members taking care of all academic andadministrative 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 in every six months.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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, HoDs, CoE (Exam Department) and Registrar. 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. CoE 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 CoE, 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 CoE (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/AOAR_2023-24/CRITERIA_6/6_2/6_2_1/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. 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.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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 24 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.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI_TERIA_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

A. All of the above

Support Examination	
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	
<p>Employees are the backbone of an organisation, and progress of an organization depends on its employees. The Institute has effective welfare schemes for the benefit of itsteaching and non-teaching staff. All faculty and staff areinsured for medical coverage.Institute encourages its teachers inacquiring the latest skills by deputing them forvarious programs/conferences. Institute supports the teachers byproviding Special Leave/Study Leaves to pursueProject/Doctoral/Post- Doctoral research.The Institute has rulesfor Leaves, DA and HRA, EPF, Gratuity, ESIC scheme, Medicalinsurance of Rs 1.50 lakhs, Transport facility, ResidentialAccommodation, Canteen Facility etc. All the above facilities arementioned in the Service Rules which is displayed in thewebsite.Campus medical assistancethrough a MBBS doctor as well asa Professional Counsellor to address stress and depression of theStaff.Sports, Gym (male & female), Transport facility,Residential Accommodation, Canteen Facility etc. All the abovefacilities are mentioned in the Service Rules which is displayedin the website.Campus medical assistance through a MBBS doctor aswell as a Professional Counsellor to address stress and depression of the Staff.The Institute has Grievance Redressalcommittee, Internal complain committee, SC/ST Committeeresponsible to sort out the issues/complaints, if raised by anystaff.</p>	

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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

125

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

2

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

132

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 scores 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_2023-24/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

Dr. B. C. Roy Engineering College conducts financial audits regularly. All the financial transactions of the college are audited by an external agency as well as internal auditors also. 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. The Internal audit is entrusted to qualified 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.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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)

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)	No File Uploaded

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

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 allocationso that re-appropriation of budget outlays are avoided or kept tothe minimum. After the allocation, the departments can avail thefinancial resources within the given limit.Purchases are made with the recommendations of duly constitutedpurchase committee. If any expenditure is made beyond budgetsanctioned, it gets ratified in a special meeting.Our object for resource mobilisation and optimal utilisation ofresources puts in the forefront quality of education and growthof students, as the primary and fundamental objective.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/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 suggestedto initiate Research Proposal and consequently submit to thefunding agencies for procuring Govt. fund as well as beginIndustry-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 astartup. Also, faculty members started submitted patent. Theoverall publcation in conference and journal increases. Facultymembers are provided with motivational financial support forpublishing in journal and for conference registration. IQAC takeninitiative in formulating the new research policy which includethe above.

Practice - 2 As part of IQAC quallity initiative institute has signed MoUwithDCG-Data Core System India Pvt. Ltd. andISOAH Data SecuritiesPvt. Ltd. As part of these students have done course on CyberSecurity which is out of their curriculum. Also as part ofexsting MoU, with the IQAC initiative students went forinternship programmes at NHA I and CSIR-CMERI. IQAC has takeninitiative that all the existing MoUs remain functional withatleast one activity as part of the MoU. Some field visits arealso organized as part of the MoU.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI/TERIA_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 2023-24AY.

File Description	Documents
Paste link for additional information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI/TERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/
Upload any additional information	View File

<p>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)</p>	<p>A. All of the above</p>
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File Description	Documents
Paste web link of Annual reports of Institution	https://srv15-bcrec.in/vc/AQAR_2023-24/CRITERIA_6/6_5/6_5_3/Additional_Documents.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

The Institute promotes gender sensitization through seminars, debates, and discussions, fostering awareness on discrimination, harassment, and equality among boys and girls on a shared platform.

The Institute ensures its curriculum includes topics on value-based education, women empowerment, gender sensitization, and the social roles of men and women. Anti-Harassment Committee, Women Redressal Cell, and Internal Complaints Committee (ICC) have been active. Led by senior female staff, these committees work to:

1. Promote gender equality and ensure the safety and security of girl students and female staff.
2. Address and resolve grievances related to gender issues in a timely and supportive manner, providing proper guidance and counseling.

Lady faculty members regularly counsel girl students, and classes on gender issues, women's rights, and empowerment are conducted by department faculty, NSS, and the Women's Cell.

The Institute enforces a "No Discrimination Policy," ensuring equality in academics and roles, with committees like IQAC, Training & Placement, and Cultural Functions having strong representation of women faculty.

Cultural activities like Women's Day and national festivals are celebrated by all, without any gender bias. The Institute fosters a culture of coexistence and equal participation among students and faculty in all its activities.

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_2023-24/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

Located away from urban pollution, the Institute provides an eco-friendly campus fostering a close connection with nature. A dedicated team maintains the lawns, gardens, and plants, ensuring

a green and sustainable environment. The Institute actively participates in the Swachh Bharat Abhiyan, organizing seminars, webinars, and NSS programs to promote cleanliness and environmental awareness among students and staff.

Waste Management Practices:

Solid Waste:

Plastic usage is minimized, and Styrofoam is banned.

Waste is segregated at the source using green bins for organic waste and blue bins for non-degradable waste.

Collected waste is disposed of by Durgapur Municipality.

Plans for a composting plant to process organic waste into manure are underway, delayed only by the pandemic.

Awareness campaigns educate students on reducing, reusing, and proper disposal of waste.

Liquid Waste:

Wastewater is directed to a septic tank connected to the municipal sewage system.

E-Waste:

Electronic devices are repaired and maintained to reduce waste.

Non-functional items are sold to scrap dealers, while printer cartridges and UPS batteries are reused or exchanged.

Plans include installing an e-waste bin to educate on proper disposal.

These initiatives reflect the Institute's commitment to a clean, green, and sustainable campus.

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 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

A. Any 4 or all of the above

**following 1.Green audit 2. Energy audit
3.Environment audit 4.Clean and green
campus recognitions/awards 5. Beyond the
campus environmental promotional activities**

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	View File
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).

Dr. B. C. Roy Engineering College (BCREC) is renowned not only for academic excellence but also for fostering an inclusive and empathetic environment that values societal awareness and cultural diversity.

The campus is a vibrant cultural mosaic, with students, faculty, and staff from across India celebrating festivals, music, and art together. Orientation programs feature artistic performances representing students' home states, while posters and banners showcase linguistic diversity. Cultural programs mark traditional occasions and the birth anniversaries of notable personalities, promoting mutual respect and understanding.

BCREC prioritizes mental and physical well-being through yoga camps and workshops, especially during National Yoga Day. College holidays align with regional festivals, encouraging students to share cultural experiences and traditions. While English is the working language, care is taken to ensure no one feels excluded due to language barriers, fostering a supportive environment for growth and learning.

The NSS Cell actively engages in charitable initiatives to support the underprivileged, reflecting the college's commitment to social responsibility. Inclusivity is further emphasized through accessibility measures for differently-abled individuals and open discussions on LGBTQ+ awareness, helping normalize diversity.

At BCREC, socio-economic differences fade as students and staff unite to build a harmonious, respectful, and inclusive community.

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

Dr. B. C. Roy Engineering College (BCREC) is committed to nurturing responsible citizens by instilling the principles of the Indian Constitution. A framed copy of the Preamble is

prominently displayed in the college lobby, symbolizing respect for constitutional values.

Significant occasions at BCREC begin with speeches honoring the vision of India's founding fathers. On Constitution Day, the entire community recites the Preamble, reaffirming their allegiance. Values and Ethics classes encourage students to reflect on constitutional principles through assignments and projects.

Key Initiatives Promoting Constitutional Values:

Republic Day & Independence Day: Participation in the "New India Pledge" ceremony.

Curriculum Integration: Courses on the Indian Constitution and Indian traditions are offered, including non-credit options.

Faculty and students visited nearby School to promote health and hygiene practices, distributing kits to celebrate World Health Day.

A "Digital Creators' Competition" was organized to raise environmental awareness. A rally raised awareness on reducing plastic use. A street play "Nukkad Natak" in Fhuljhore highlighted anti-pollution awareness. Students planted trees to promote sustainability in the college as well as nearby locality.

Entrepreneurship Promotion: E-Cell workshops inspire students to become job creators.

Through these initiatives, BCREC remains dedicated to upholding constitutional values, fostering inclusivity, sustainability, and societal progress.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI_TERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/
Any other relevant information	https://srv15-bcrec.in/vc/AQAR_2023-24/CRI_TERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/

7.1.10 - The Institution has a prescribed code

C. Any 2 of the above

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

The Institute celebrates national and international commemorative days, events, and festivals with enthusiasm, fostering learning about the values and principles of great personalities. Regular updates on these celebrations are shared on the Institute's social media platforms.

Key Celebrations:

Republic Day & Independence Day: Celebrated with flag hoisting, an NCC parade, speeches on Fundamental Rights and Duties, and the "New India" pledge.

Gandhi Jayanti: NSS volunteers pay tribute to Mahatma Gandhi's values through meaningful activities.

Constitution Day: Observed to raise awareness about the adoption and significance of the Indian Constitution.

Youth Day: Inspirational speeches highlight his teachings on

Youth Day.

Rabindranath Tagore's Birth Anniversary (25th Baisakh): Celebrated with music, recitation, and speeches at Rabindra Kanan.

Dr. B. C. Roy's Birth & Death Anniversary (1st July): Memorial service honors his contributions.

Teachers' Day: Students honor teachers with cultural performances, gifts, and gratitude.

NSS Day: Celebrated with programs and student activities.

Engineers' Day: A tribute to Bharat Ratna M. Visvesvaraya.

World Environment Day: Tree plantation drives promote a green campus.

Dulal Mitra Remembrance Day: Tributes are paid to Late Dulal Mitra, the beloved President of BCREC Society.

These celebrations enrich campus life, instilling cultural awareness and values among students.

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 and Training

In today's rapidly evolving job market, career guidance plays a crucial role in preparing students for professional success. The Institute focuses on equipping students with essential skills to meet industry demands. Communication and Presentation Skills

training is imparted through the Language Lab, with faculty from the English Department guiding students. To further enhance employability, professional agencies like Cocubes, Bangalore are engaged to provide specialized training.

At the departmental level, alumni interactions are organized to help students explore diverse career opportunities and gain insights into industry trends. Students are encouraged to participate in technical contests, internships, project work, and organize technical fests and social activities, fostering experiential learning. Industry-academia collaborations are strengthened through MoUs with Redhat Academy, Infosys, providing students with career guidance and exposure to real-world scenarios. Entrepreneurship is actively promoted through the E-Cell in collaboration with the Institute Innovation Council (IIC).

Best Practice 2: Content Beyond Curriculum

The objective of this practice is to develop students into competent professionals by promoting skill development, self-learning, and creative thinking. As a Nodal Center of NPTEL, the Institute has been recognized among the top 100 local chapters. Students enroll in MOOCs courses via NPTEL to gain knowledge beyond the curriculum.

The recently established AICTE IDEA Lab empowers students to enhance their skills in emerging technologies and encourages innovation and hands-on learning. This initiative ensures students remain industry-ready and capable of addressing contemporary challenges through creative solutions.

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_2023-24/CRI_TERIA_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, with over two decades of excellence, has made significant contributions to higher technical education by fostering sustainable growth through industrial collaborations, faculty expertise, and strong media presence. Building a reputable image in the education sector remains a key priority.

To strengthen industry-academia relationships, the Institute has signed MoUs with renowned organizations such as CSIR-CMERI, Capgemini, ISOAH, Redhat Academy, SAIL-DSP. These partnerships enable students to participate in internship programs with organizations like CSIR-CMERI and NHAI, enhancing their practical knowledge and industry exposure.

The Institute is also committed to developing an innovation-driven culture among students and faculty. To achieve this, the Institute Innovation Council (IIC) was established, encouraging the transformation of innovative ideas into tangible, usable products.

Furthering this vision, the Institute has set up the AICTE-IDEA Lab, which provides a platform for concept ideation and skill development in emerging areas. The lab also supports students and faculty from neighboring institutions, fostering a collaborative learning environment.

For the past 2-3 years, students have actively participated in various national level hackathons, successfully qualifying through multiple rounds. To further enhance their performance, the college organizes an Internal Hackathon to identify and select groups with the potential to excel at the national level.

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

Applying for Autonomy Begin the process of securing autonomy by preparing and submitting necessary documents. Autonomy will allow the institution to implement innovative academic strategies, design industry-relevant curricula, and enhance overall quality.

Enhancing Research Focus Foster a strong research culture by encouraging faculty and students to engage in impactful research

projects. Provide funding support, access to advanced resources, and incentives for publishing in high-impact journals. Establish dedicated research centers in emerging areas and promote interdisciplinary collaborations.

NIRF Ranking Focus on the key parameters of the National Institutional Ranking Framework (NIRF), such as teaching and learning resources, research output, graduate outcomes, and outreach. Strengthen faculty credentials, increase research publications and patents, and enhance placement outcomes to enter in the ranking metrics.

Increasing Academy-Industry Interaction Build strong ties with industry through collaborations, internships, and joint research projects. Regular industry talks and workshops will bridge the gap between academia and practice, ensuring students are industry-ready.

Curriculum Redesign for Employability Revamp the curriculum to include emerging technologies, certifications, and skill-based training programs. Focus on experiential learning and capstone projects to improve placement rates.