



## YEARLY STATUS REPORT - 2021-2022

### 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.pdf](https://bcrec.ac.in/NAAC_AQAR.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/AcademicCalendar21-22.pdf>

**5. Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>B+</b>	<b>2.72</b>	<b>2021</b>	<b>13/09/2021</b>	<b>13/09/2026</b>

**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
Electronics & Communication Engineering	Up-gradation & Modernization of	AICTE (MODROB-REG)	2022 (2 years)	13.875 lacs
Electronics & Communication Engineering	AICTE-IDEA Lab	AICTE - IDEA	2021 (2 years)	39.5 lacs
Electrical Engineering	PRISM project	Department of Scientific & Industrial Research	2021 (2 years)	2.3 lacs

**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** **3**

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**

- 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**

- If yes, mention the amount

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

IQAC was instrumental for submission of NBA-SAR Applications of three UG courses, ME, IT & EE resulting which three departments have been accredited w.e.f. 2022 for 3 years each. IQAC team is taking lot of initiative and constantly in touch with departmental NBA teams of two departments, ECE & CSE for getting NBA re-accreditation in 2023.

IQAC team also jointly worked with the NIRF team for achieving a ranking in prestigious NIRF in the year 2022 resulting the Institute could achieve a rank within the band of 201-250.

Under the guidance of IQAC, Institute's Innovation Council (IIC) was established during the year 2021-22 to promote Innovation and Start-up in the college campus

Under the initiative of IQAC, the Institute submitted a Project on "Upgradation and Modernization of VLSI Lab (Phase-II)" to enhance teaching, training & research capabilities in the VLSI domain that received the approval of AICTE. A grant amount of Rs 13,87,500/- (Thirteen lakh eighty-seven thousand five hundred only) was sanctioned under the Scheme - AICTE-MODROBs [Regular

In accordance with NEP 2020 guidelines, under the initiative of IQAC, the Institute signed two prestigious Memorandum of Understandings (MOUs) with two renowned Industry/ Research Institution - one is with CSIR-CMERI which and another with Capgemini

**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 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.
Submission of SARs by three UG & PG Programs: ME, IT & EE and MBA Programs	IQAC was instrumental for submission of NBA-SAR Applications of three UG programs, ME, IT & EE and one PG Program, MBA. As a result three UG Programs got accreditation w.e.f. 2022 for 3 years each.
Establishment of AICTE-IDEA lab	As suggested by IQAC, AICTE IDEA lab started its activities for conduction of skill based training to faculty members/students/professionals who are interested in starting business in the neighbouring area using the equipments like CNC Router, 3D printing, LASER Cutter, 3D Scanning procured in AICTE IDEA Lab.
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. Following the advice of IQAC, the Feedback structure was totally re-vamped and the total feedback analysis (Students, Faculty, Alumni, and Employers) has been displayed in the college website. Even the Student Satisfaction Survey

	(SSS) Analysis regarding Teaching - Learning and Evaluation has been made to upgrade the quality in higher education.
International interdisciplinary Conference on the topic	In order to provide the holistic academic growth among the students aligning with the objective of NEP- 2020, IQAC suggested that an Inter-disciplinary Conference may be organized to create a platform for cross-sector dialogues on variety of challenging areas and exchange of break-through ideas relating to the Mathematics, Engineering & Science applicable to common mass of the country. The conference will be sponsored by IEEE and necessary work related to collection of research papers and consequent review of the same as well as finalization of key-note speakers are in full progress.

**13. Whether the AQAR was placed before statutory body?** Yes

- Name of the statutory body

Name	Date of meeting(s)
Board of Governors	21/12/2022

**14. Whether institutional data submitted to AISHE**

## Part A

### Data of the Institution

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<b>Board of Governors</b>	<b>21/12/2022</b>
<b>14.Whether institutional data submitted to AISHE</b>	
<b>Year</b>	<b>Date of Submission</b>
<b>2020-21</b>	<b>22/02/2022</b>
<b>15.Multidisciplinary / interdisciplinary</b>	

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, Inter-disciplinary/multi-disciplinary curriculum is being implemented at Dr. B. C. Roy Engineering College by offering Add-on courses to the students which gives freedom to the student to choose their preferred options from the range of programs offered by the institute. Classes for Add-on courses are being conducted on-line/off-line so that students of all streams can choose their preferred multi-disciplinary subjects.

Institute has taken the initiative for conducting IEEE sponsored international conference "2022 INTERNATIONAL INTERDISCIPLINARY CONFERENCE ON MATHEMATICS, ENGINEERING & SCIENCE" which will be conducted during 11-12 November, 2022 to promote the Multidisciplinary / interdisciplinary participation following the concept of AICTE's concept of application of science, technologies, engineering and mathematics (STEM) among the industry and academia.

Institute is carving out the way for the fruitful implementation of multidisciplinary and interdisciplinary education which will definitely enable our students to develop the skills required in 21st century. While more clarity will be visible in coming months on how the multidisciplinary and interdisciplinary approach to education being proposed in the Policy shape up, Institute welcomes the change and ready to implement the same.

#### **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. While more clarity will be visible in the coming months on how the academic bank of credits being proposed in the policy shape up, the Institute welcomes the change, which is to create a framework for the country to take

advantage of its demographical dividend. In present scenario, following university regulation students are encouraged to participate in earning Honours degree through earning 20 extra credit points (Choice based credit system -CBCS) by participating in different MooCs courses.

The Institute could progress towards academic collaboration with foreign universities of repute for professional activities. An exploratory Grant for Going Global (UK GBP 15000) of British Council was completed jointly with Anglia Ruskin University (ARU), UK. by designing the course on "Sustainable Transformation in Business Practice". Principal of the Institute paid a visit to two campuses of the ARU University a. Cambridge Campus and b. Chelmsford Campus as well as Cardiff University Campus in UK to have a discussion on student exchange, project proposals on different domains and to explore for another phase of grant.

### **17.Skill development:**

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

The Institute has already set up an In-house Training Cell with two components - providing technical training as well as soft skill training starting from the 1st year. Apart from teaching of usual curriculum of parent university, Curriculum Enrichment is achieved through Beyond Syllabus Activities and Value Added Courses imparting transferable and life skills in the form of MOOCs courses through NPTEL, Coursera, etc. and programs on extra-curricular and co-curricular activities conducted under Mandatory Additional Requirement (MAR) criteria of the affiliating University. Institute also signed two MOUs, one with CSIR-CMERI to create an excellent opportunity for utilization of their laboratories and Training to the students and another with Capgemini for training to the students and skill development like Hackathon for corporate experience and pre-joining training before they start their new journey in Corporate World. The MoU will further enhance the pool of talent transformation in the field of emerging technologies like Cloud Infrastructure services. Need of the hour is to produce young generation obtaining degrees in their choice of subjects and additional skill courses that will help them to start their own entrepreneurship after leaving the college. In this way a

graduate from the college will become a job provider than a job seeker.

The Institute was selected as one of the Nodal Centres for the Grand Finale of Smart India Hackathon 2022 among 75 reputed Institutes all-over India by Ministry of Education's Innovation Cell (MIC) and the All India Council for Technical Education (AICTE) which was held during August 25-26, 2022.

#### **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.

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

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

In addition to conventional teaching and learning, Skill-based Training is imparted for First/Second/Third year students of all branches for enhancement of professional skills of the students in the emerging area of technologies such a way that students can fulfil professional assignment afterwards. The Course Outcomes(COs) are also aligned to the Program Outcome / Program Specific Outcome / Program Education Objective (PO-PSO-PEO) philosophy and outcome evaluation conducted course wise as well as at the program level.

## 20.Distance education/online education:

During the Covid pandemic, online classes were conducted very effectively by all the faculty members in all programs, helping the students to study e-contents for all subjects in all semesters. Both faculties and students have experienced the online teaching and evaluation process through different software. Institute is also preparing to make available all such type of e-content materials prepared by faculty members to all students through online mode to meet the future challenges. Even the whole semester examination is conducted digitally by the parent University till the end of 2021-22 academic year. So, the institution is well prepared in this regard. Institute also allows the M.Tech students to pursue their regular classes on hybrid mode (online / offline).

## Extended Profile

### 1.Programme

1.1	861
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

### 2.Student

2.1	2853
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>



2.2	324
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
2.3	840
Number of outgoing/ final year students during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>3.Academic</b>	
3.1	183
Number of full time teachers during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
3.2	183
Number of sanctioned posts during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>4.Institution</b>	
4.1	55
Total number of Classrooms and Seminar halls	
4.2	809.37
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	1313
Total number of computers on campus for academic purposes	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

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

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

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

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

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_1/1_1/1_1_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_1/1_1_1/1_1_1_1/ADDITIONAL_INFORMATION/</a>

### 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, NCCactivities, 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	<a href="#">View File</a>
Link for Additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_1/1_1/1_1_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_1/1_1_1/1_1_1_2/ADDITIONAL_INFORMATION/</a>

**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. 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**

**D. Any 1 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**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)**

0

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template )	No File Uploaded

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

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File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	No File Uploaded

**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	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

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

30

File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View File</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View File</a>
Institutional Data in Prescribed Format	<a href="#">View File</a>

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

767

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

## 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	<a href="https://bcrec.ac.in/feedback.html">https://bcrec.ac.in/feedback.html</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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	<a href="#">View File</a>
URL for feedback report	<a href="https://bcrec.ac.in/feedback.html">https://bcrec.ac.in/feedback.html</a>

## 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**

**934**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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**

201

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

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

- The Institute admits students from diverse social and economic backgrounds, and the ability and extent of learning of the students are greatly influenced by their own talents and other qualities. The Institute has created a structured mechanism for assessing students' learning levels.
- The first interaction takes place during the AICTE Induction Programme, when instructors analyze, recognize, and identify students. During the individual interaction session, Mentors assess Mentees' learning aptitude based on their academic performance, behavior, and social and psychological characteristics.
- With regard to the program for Slow Learners, each mentor is assigned a group of students per year to provide one-on-one counseling for overall improvement. Extra sessions are offered to slow learners, as well as efforts to enhance basic math and English skills.
- Advanced learners are encouraged to attend webinars, seminars, and expert lectures, and to become members of various professional bodies such as IEEE, CSI, and E-Cell, to publish papers, to participate in the innovative project and research work, to enroll in and become certified in MOOC courses, and to take competitive examinations such as GATE,



GRE, CAT, and so on.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_2/2_2/2_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_2/2_2/2_2_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2853	183

File Description	Documents
Any additional information	<a href="#">View File</a>

## 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 which are central to Outcome-Based Education (OBE).

### Course Delivery Methods:

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

### Individual learning:

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

**Experiential learning:**

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

**Participative /collaborative learning:**

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

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

Faculty also map the learning outcomes from the above initiatives.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/</a>

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

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

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

by students via LAN or the internet.

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

### 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

149

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

183

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

#### 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

74

File Description	Documents
Any additional information	<a href="#">View File</a>
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)	<a href="#">View File</a>

#### 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

2035

File Description	Documents
Any additional information	<a href="#">View File</a>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

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

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

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/</a>

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

- The Central Examination Cell is supervised by a faculty member chosen by the authorities. Institute carefully adheres to the affiliating University's norms at the time of conducting Internal Tests and Semester Exams.
- All CA and PCA marks for Theory, Practical and Sessional are uploaded into the University portal, and students can access them by logging in with their own login ids. After the publication of the results, a student can apply for Post-Publication Scrutiny (PPS) and Post-Publication Review (PPR).
- Viva-voce and lab copy evaluations are explained in front of

students to keep the process transparent and minimize grievances. Project Seminars are held in Google Meet/Seminar Halls in front of the entire class to ensure complete transparency in internal assessment.

- The Examination Cell, in close collaboration with the University, deals with any student grievances regarding Admit Cards, Registration Cards, etc.
- Any exam malpractice is reported to the Examination Cell and dealt with as per University guidelines. The Invigilator can cancel a paper online, and the Examination Cell can mark it as "Reported Against (RA)". If the student cannot substantiate his case to the satisfaction of the Committee, he has to repeat the examination the next semester.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/</a>

## 2.6 - Student Performance and Learning Outcomes

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

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

basis for achieving POs and PSOs and thus contribute towards achieving the Mission and Vision of the Institute.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRI_TERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRI_TERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/</a>
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

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

Theory subjects:

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

Practical Subjects:

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

- Each CO has a target level and is achieved if the attainment is equal to or exceeds the target. Once the total attainment of CO is calculated, it is used for measuring the level of attainment of POs and PSOs.

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	Nil

### 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

837

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

### 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/ss-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)



55.675

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

### 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

16

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 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

2

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="https://www.aicte-india.org/">https://www.aicte-india.org/</a>

## 3.2 - Innovation Ecosystem

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

R&D cell motivates the faculty members to submission of research proposals to various funding agencies. AICTE -MODROB and PRISM-DSIR project was sanctioned. Some projects are in the indifferent stage of consideration in AICTE.

Some Patent applications are also submitted for approval.

AICTE selected the institute for setting up the prestigious AICTE-IDEA Lab and sanctioned the fund of Rs 39.5 Lakhs.

Institute has also been selected for ATAL Ranking program.

Institute has published its vol: 3 no: 1 online journal in the name of BCREC Engineering Science Transaction (BEST).

Institute Innovative Cell was created to nurture the innovative idea of the students and faculty members.

Institute IPR cell organizes several workshops and webinars for awareness on IPR.

MOU with Capgemini Technology Services India Ltd., helped the students with selection in campus drive-through pre-placement training.

MOU with CSIR-CMERI, VITTI Research Foundation helped the students and faculty members for applying real-life projects in a different sector.

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI-TERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI-TERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/</a>

### 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

45

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.3 - Research Publications and Awards

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

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

4

File Description	Documents
URL to the research page on HEI website	<a href="https://bcrec.ac.in/BCREC_R&amp;D.html">https://bcrec.ac.in/BCREC_R&amp;D.html</a>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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

67

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

#### 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**

76

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

**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

Multifarious activities in the Institute involving the students with the objective of sensitizing them about various social issues and strengthening community participation for holistic development are carried out inside the campus under the banner of NSS.

The Ministry of Culture, GOI has introduced one major event "Rastragaan" for celebrating 75 years of Independence. The students must sing and upload the National Anthem to the given link shared by the GOI and show their patriotism.

An online poster presentation on: "Single-use Plastic Waste" was conducted to engage the faculty, students, and staff as a part of the Clean India campaign.

Women's Day is celebrated as part of Gender Sensitization programs. A webinar "Inspiring Women in Technology" was conducted to aware the students.

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

In keeping with the Swasth Bharat initiatives all across the country, students reached out to villagers in Dashirbad, Durgapur as part of the Outreach Programme.

One session was conducted to give a broad idea about initial preparedness for a start-up, and an idea about legal & Ethical Steps for a start-up.

Needs of the marginalized people especially women and children from the underprivileged sections of society get priority.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRIERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRIERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

9

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of awards for extension activities in last 5 year (Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

### 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

4

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

### 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

496

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

## 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

378

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

### 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

9

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

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

- Located on 10.11 acres of land
- 35686 sq. m. built-up area
- Well equipped spacious 55 classrooms (12 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls
- Laboratories with experimental set-ups, computers & peripherals and Instructors to provide constant support and maintenance.
- Separate R&D labs to carry out research activities.
- Industry tie-up laboratories like Texas Instruments Innovation Lab in collaboration with Texas Instrument, USA, and VLSI lab in tie-up with Xilinx, USA to provide the students hands-on experience and wide exposure
- AICTE IDEA Lab imparting 21st century skills
- Language Lab with modern accessories
- Adequate Staff rooms, Toilets, etc.
- Wi-Fi enabled campus
- Two dedicated Central Computer Centres with 257 desktops
- Six computers in Digital Library, 144 computers in various departments and offices.
- 27 Computer labs with a total of 1207 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 246 KVA for back-up power supply.

- Two Auditoriums with state-of-the-art facilities to carry out extra-curricular activities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_1/4_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_1/4_1_1/ADDITIONAL_INFORMATION/</a>

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	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_2/ADDITIONAL_INFORMATION/</a>

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

16

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_3/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_3/ADDITIONAL_INFORMATION/</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 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)

31.24

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

- Central Library of the Institute occupies a very important place in the campus.
- It supports study, teaching-learning process and research activities and provides a learning space for the students (UG & PG), staff and faculty members.
- Central Library is housed in a sprawling three storied building with a carpet area 1091.16 sq.m.
- The Central Library is automated with Integrated Library Management Software, LIBSYS 4, and Version LSEASE (Rel. 6.1).
- The College Library System has a total collection of 7439 titles and 93,005 volumes of books (including 58625 volumes in the Book Bank and 3960 volumes in Departmental Libraries). Users have access to publications of all all major publishers like Elsevier, Springer, Wiley, IEEE, TMH, Pearson, etc.
- The Library subscribes to about 60 printed journals and 15 printed magazines. It also subscribes to a good number of e-journals in the field of engineering, science and management [e.g. IEEE-ASPP (192 titles), Sage (11 titles) etc.].
- It is a member of DELNET (1566 E-BOOKS AND 1100 E-JOURNALS) and NDLI (6 lakh e-books) providing access to in STEM subjects.
- 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	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_2/4_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_2/4_2_1/ADDITIONAL_INFORMATION/</a>

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

#### 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)

22.62

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

#### 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

51

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

### 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 540 (500+40) 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. Wi-Fi facility in all hostels is for 24 hrs.

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

YEAR

2021-22

Number of Computers (in working Condition)

1313

Laptops

18

Servers

4

Wi-Fi / Access Points/ Switches

176

Open source software

20

Types of Licensed Software

68

Printers (in working condition)

66

No. of Scanners

18

No. of Online UPS

25

No. of CCTV Cameras

49

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_3/4_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_4/4_3/4_3_1/ADDITIONAL_INFORMATION/</a>

**4.3.2 - Number of Computers**

1313

File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

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

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### 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)

160.59

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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 minor 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_4/4_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_4_4_2/ADDITIONAL_INFORMATION/</a>

## 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

159

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

### 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

345

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

### 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

B. 3 of the above

File Description	Documents
Link to Institutional website	<a href="https://bcrec.ac.in/BCREC_TRAINING.html">https://bcrec.ac.in/BCREC_TRAINING.html</a>
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>



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

580

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

580

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**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	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 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

538

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

### 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

26

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of student progression to higher education	<a href="#">View File</a>

### 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

10

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

## 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.

4

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
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)	<a href="#">View File</a>

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 )

Our institute has a Students' Council, encompassing students of all years of the college and the council act as three different bodies - (1) Student Academic Council, (2) Student Social & Cultural Council and (3) Student Administrative Council. The Chairperson is Dean (Students' Welfare & Alumni) and three faculty advisors co-ordinate with the students. Functions of Academic Council (represented by 5-6 students) is to get the feedback on teaching-learning processes from the departments, pertaining to quality improvement. Various events/activities like technical workshops, Technical Fest, skills/knowledge enhancement programmes etc. are conducted in alliance with respective professional bodies such as CSI, IEEE,IEI under the banner of Student Chapters. Functions of the Administrative Council is to take care of the feedback on Hostels and Amenities, Anti-Ragging initiatives, Alumni Association, Grievance Redressal, NSS etc. Social and Cultural Council promotes and encourages the involvement of students in organizing various sports, social initiatives and community outreach programmes and recreational activities of the college in coordination with faculty mentors. Institute has set up NSS to sensitize students towards societal issues and community services, activities of which is mainly carried out by the

students. Finally, Alumni Association is in place to strengthen the relationship amongst alumni.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRI-TERIA_5/5_3/5_3_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRI-TERIA_5/5_3/5_3_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

3

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
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)	<a href="#">View File</a>

## 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 and it was registered in 2008.
- 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.
- Though informal contribution of Rs 3.48 lakhs has been received from Alumni till date, they have been 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. Avijit Sham, President Alumni association, is helping the IQAC as active members for enhancement quality of our college.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

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

- BCREC is governed by Dr. B. C. Roy Engineering College Society.
- Members of the B.O.G of the College have been constituted as per the guidelines of AICTE, and meets regularly during 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, Deans, HODs and Registrar, Head (Admn.), Campus

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

- To ensure the quality and imbibe the culture of excellence, IQAC has developed the Strategic Plan aligning with vision and mission of the Institute. Faculty opinions and participation is given due weightage by their participation in various committees like Anti-ragging, IQAC, Research, Examination, Placement, Internal Complaint Committee (ICC) to ensure the value addition
- Student Council meetings are held every month to brief students on important decisions and consider their suggestions and look into their grievances, if any.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

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

#### Case Study

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

In-charge of the Examination Cell under the advice of the Principal execute the process in close liaison with the Controller of Examinations of MAKAUT as well as disseminate the instructions to the HoDs and Departmental Exam Coordinators.

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

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

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

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

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

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

### Case study

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

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

alongside the Training & Placement Team of Kolkata. The team had refurbished the complete training process making a few vital changes with three distinct components, Aptitude, Technical and Verbal & Soft Skills; as a result during the academic year 2021-22, 944 job offers are received by the students out of which 538 are single offers. 465 single offers are for engineering, 28 single offers for MCA and 45 single offers are for MBA. The overall single offer placed percentage stands at 65% where the LOIs are available.

For B. Tech (lakhs per annum ) Highest Package : 12 Average Package : 3.99

For MBA (lakhs per annum ) Highest Package : 9 Average Package : 3.26

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

- The Institute has an internal Organizational Structure that has evolved over 20 years which is displayed in the website. The hierarchy is followed at every level.
- The Institute is managed by the Board of Governors (BOG).
- The Institute has decentralized its operations and has delegated authority at various levels to ensure good governance.
- The Statutory bodies of the College are the Academic Council (AC) and Internal Quality Assurance Cell (IQAC) framed as per norms of AICTE. These bodies play an important role in framing policies and its execution.



- The Principal is the academic and administrative head who monitors the overall functioning and growth of the Institute. Principal acts as the Member-Secretary of the BOG and the Chairman of Academic Council and IQAC.
- The involvement of the effective leadership is achieved through the well-defined system and organizational structure.
- The Institute has Service and Recruitment Rules as per the norms of the Government of West Bengal.
- Promotion Rules are as per the norms of AICTE/ Government of West Bengal.
- Service Rules & Regulations are displayed in the website for dissemination amongst the faculty and staff.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_2/ADDITIONAL_INFORMATION/</a>
Link to Organogram of the institution webpage	<a href="https://bcrec.ac.in/BCREC_BOG_STRUCTURE_PRESENT.html">https://bcrec.ac.in/BCREC_BOG_STRUCTURE_PRESENT.html</a>
Upload any additional information	<a href="#">View File</a>

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

**B. Any 3 of the above**

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

### 6.3 - Faculty Empowerment Strategies

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

Progress of an organization depends on its employees. The Institute has effective welfare schemes for the benefit of its teaching and non-teaching staff. All faculty and staff are insured for medical coverage. Institute encourages its teachers in acquiring the latest skills by deputing them for various programs/conferences. Institute supports the teachers by providing Special Leave/Study Leaves to pursue Project/Doctoral/Post-Doctoral research. The Institute has rules for Leaves, DA and HRA, EPF, Gratuity, ESIC scheme, Medical insurance of Rs 1.50 lakhs, Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. Sports, Gym (male & female), Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. The Institute has Grievance Redressal committee, Internal complain committee, SC/ST Committee responsible to sort out the issues/complaints, if raised by any staff.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

14

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

### 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

125

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

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

- A systematic and effective Performance Appraisal System of the Institute provides teaching and non-teaching staff with eloquent appraisals that encourages professional learning and growth. Appraisal System for performance review of the faculty members is conducted by the Appraisal Committee of the Institute comprising of senior academicians/technocrats duly appointed by the Principal on the basis of following criteria. A structured "Self-Appraisal Form" is given to each faculty member for evaluation purpose. The concerned HOD gives their remarks on the performance of the faculty member.
- Performance Appraisal form for Non-Teaching staff is based on the qualitative and quantitative responses towards performance parameters.
- Performance Review is conducted at the end of an academic year. Wherever, there is scope for improvement, it is communicated to the concerned faculty/staff through the HoDs/ Reporting officials.
- Criteria

**Marks**

**Allotted Marks**

1. Power Point Presentation on a topic of the concerned subject & Question-Answers on PPT 15
2. Subject Knowledge & Skill 30
3. Ability to deliver lectures & Communication Skills 20
4. Research Contribution/Paper Publication/Newsletter 20
5. Engagement in other departmental/institutional activities (MAR, MOOCs, Exam, Placement, NBA, NAAC, NIRF) 15

Total: 100

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

**6.4 - Financial Management and Resource Mobilization**

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

College conducts internal and external financial audits regularly.

**A. Internal Audit**

The Internal audit is entrusted to qualify Auditors who carry out internal audit checks every quarter and they do a thorough check and verification of all financial transactions with the supporting documents and approval of proper authority for each transaction. The financial transactions are accounted in Tally.ERP-9 by the college.

Internal Auditor will examine all vouchers on cent percent basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers.

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

#### B. External Audit

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

#### 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)

00

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

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

The annual budget is prepared according to the need and

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

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

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

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRI_TERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

## 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

ECE Department received grant of 13.875 lakhs from AICTE for Up-gradation & Modernization of "VLSI Lab (Phase-II)" to enhance teaching, training and research capabilities in VLSI domain. Also, a grant of 2.3 lakhs received by Electrical Engineering Department

for PRISM project, "A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology"

R&D Cell applied for establishment of AICTE IDEA Lab with a proposal of Rs 78.99 lakhs. Out of 204 applicants, 49 proposals were selected and the Institute received the approval on 17/06/2021. Fund of 39.5 lakhs will be sponsored by AICTE.

#### Practice - 2

Institute has signed MoUs with Capgemini Technology Services India Ltd. to enhance industry institute partnership. Moreover, to develop research culture and and more skill based / industry need based development / partnership institute has signed MoUs with VITTI Research Foundation & CSIR-CMERI during the AY 2021-22.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRI/TERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRI/TERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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 during the pandemic through virtual mode, IQAC has taken initiative such that all the students are provided with class notes as per the Class Schedule, after the on-line mode of teaching is over through Google Meet. IQAC further advised to take virtual lab classes following the MHRD virtual lab portal. Institute also took initiative for recording of videos of real-time lab execution and sharing with the students.

IQAC further suggested that the students should be counseled through the Mentors to reduce the stress in students during the pandemic. 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 at large with the hope that after the Institute opens in physical mode, the same may be conducted. IQAC has conducted academic audit for all departments

(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. Following the advice of IQAC, the Feedback structure was totally re-vamped and the total feedback analysis (Students, Faculty, Alumni, and Employers) has been displayed in the college website. Even the Student Satisfaction Survey (SSS) Analysis regarding Teaching - Learning and Evaluation has been made to upgrade the quality in higher education.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRIERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRIERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf">https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

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

- Gender Sensitization is an important concern. Periodically, the Institute organises programmes and events to raise awareness of the issue.
- The Institute seeks to promote gender equality by organising seminars, debates, and group discussions for both boys and girls on a single platform, as well as a programme to raise awareness about women's empowerment and gender sensitivity, cybercrime, and self-defense.
- The institute has established a number of committees with senior female faculty and staff members, including: Anti-harassment Committee, Women Redressal Cell, and Internal Complaint Committee (ICC), in accordance with Statutory Authorities' rules and regulations.
- Separate common rooms with basic amenities exist for boys and girls at the college.
- The female faculty members of the aforementioned Committees provide consistent counselling services to both female and male students.
- In collaboration with police officials of the local area, Durgapur, and the Burdwan district, awareness programmes on women's empowerment and gender sensitivity, cyber-crime, and self-defense were held on the college grounds in 2020, with

enthusiastic participation from female collectives of the Institute.

File Description	Documents
Annual gender sensitization action plan	<a href="https://bcrec.ac.in/GenderSensitizationActionPlan.pdf">https://bcrec.ac.in/GenderSensitizationActionPlan.pdf</a>
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	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- The Institute's environment is environmentally friendly. The institute has made concerted efforts to enhance and cultivate an eco-friendly environment, and it strives continually for a sustainable campus environment.
- A dedicated team of gardeners and sweepers cares for the campus's lawns, gardens, plantation, maintenance, etc. on a regular basis in order to preserve its green environment.
- The Institute has taken all measures in accordance with the Swachha Bharat Abhiyan to educate its students and employees through various activities such as seminars, webinars, NSS cells, etc.

- The Institute has an effective waste disposal system. The Durgapur Municipality collects non-biodegradable waste while the organic solid waste is separated and used to prepare compost for in-house consumption. At the canteen and hostel, solid waste is separated at the source using green and blue garbage cans.
- Collected liquid waste is discharged into the municipal sewage system.
- E-waste is assembled in innovation labs, where students cannibalise the necessary components, and then sold to an E-waste collection company.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<a href="#">View File</a>
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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).

- Institute is well-known not only for its pursuit of academic excellence, but also for its HR policies of empathy, societal consciousness, and harmonious relationship with the culture and sensibilities of its surrounding environment.
- The Institute's faculty/staff and students are a diverse cross-section of India, and they celebrate each other's festivals, music, and art. The Orientation Programs for students include artistic contributions from each of the students' home states. The band and cultural events of the students reflect the diversity of musical and cultural performances.
- Linguistic differences are assimilated by mandating the use of a common professional language, such as English, during business hours.
- Communal divides are rare. The Institute has a strong and enduring dedication to its social responsibilities. The NSS Cell has engaged in numerous socially responsible initiatives in the realm of charity work for the underprivileged in society.
- Ramps, lift facilities, and even specially designated assisting staff members are provided for disabled students, employees, and teachers.

In the Soft Skills Sessions, LGBTQ Awareness, Rights, and Empowerment are discussed in Group Discussions. This is done to eliminate students' initial misgivings and apprehensions about dormitory life, as well as to promote campus-wide sensitization and inclusiveness.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- The Institute is fully cognizant of its prestigious role as the architect of India's next generation. The Institute is committed, in word and deed, to the Indian Constitution's philosophy.
- A copy of the Constitution's Preamble is kept in the reception area of the Main office building to demonstrate the importance the Institute places on it.
- On Constitution Day, the Institute renews its commitment to the Constitution by verbatim reciting the Preamble.
- The Institute focuses on instilling a sense of responsibility towards the Constitution in its students through a variety of initiatives, including the New India Pledge ceremony on Republic Day and Independence Day.
- As part of the curriculum, Constitution of India/Essence of Indian Knowledge & Traditions is offered for no academic credit.
- In accordance with the principles and values of Community Service, the Institute routinely organises

The Swacch Bharat and Swasth Bharat Initiatives.

- Each year, in conjunction with NGOs, National Service Scheme (NSS) hosts Organ Donation Pledge Workshops to educate students about the urgent need for more individuals to become organ donors.
- Each year, World Environment Day is celebrated with great zeal by planting trees on campus.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://srv15-bcrec.in//vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/Additional_Documents.pdf">https://srv15-bcrec.in//vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/Additional_Documents.pdf</a>
Any other relevant information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/</a>

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

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

The Institute has a rich history of commemorating national and international commemorative days, events, and festivals.

The institute buildings include Vidyasagar Bhawan, Ashutosh Bhawan, Mahalanabish Bhawan, Sister Nivedita Girls Hostel, Chittaranjan Boys Hostel, and Satyen Bose Boys Hostel, among others.



The names of the gardens include Vivek Udyan, Rabindra Udyan, Bidhan Udyan, etc.

The institute has a longstanding tradition of celebrating Republic Day and Independence Day with vigour and zeal. The celebration consists of a parade of NCC members from the student group, the unfurling of the national tricolour flag, the singing of the national anthem, and an address by the Principal for the special days.

In commemoration of the adoption of India's constitution in 1950, the Constitution Day celebration is yet another national event that instils spirit and devotion to our nation's Constitution.

The institute makes every effort to celebrate Swami Vivekananda's birth anniversary at the Vivek Udyan, which is named after him.

The institute celebrates National Education Day in remembrance of the contributions of Bharat Ratna Maulana Abul Kalam Azad.

The Institute commemorates Teachers Day on Dr. S. P. Radhakrishnan's birthday, September 5.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.2 - Best Practices

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

### Best Practice 1

#### Career Guidance Training

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

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

## Best Practice 2

### Content beyond Curriculum

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

File Description	Documents
Best practices in the Institutional website	<a href="https://bcrec.ac.in/BCREC_BEST_PRACTICES.html">https://bcrec.ac.in/BCREC_BEST_PRACTICES.html</a>
Any other relevant information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/</a>

## 7.3 - Institutional Distinctiveness

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

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

reputation over the years is one distinctive area to its priority and thrust.

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

Institute has also focused on developing an innovation culture among the students and faculty members. Alinging to this goal institute has setup Institute Innovation Council (IIC) and encouraing students and faculty members towards developing innovative ideas which will covert to some kind of usable products. The AICTE IDEA lab has been setup in the institute to encourage concept ideation using the lab. Also, IDEA lab is helping students and teachers / faculty members of nearby different other institutes to develop skills in the emerging areas. Building up of an innovation hub is under progress as part of MoU with VITTI Research Foundation.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

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

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

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

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

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_1/1_1/1_1_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_1/1_1/1_1_1_1/ADDITIONAL_INFORMATION/</a>

### 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, NCCactivities, 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	<a href="#">View File</a>
Link for Additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_1/1_1/1_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_1/1_1_1_1_2/ADDITIONAL_INFORMATION/</a>

**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. 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**

**D. Any 1 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## **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	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

## 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)

0

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template )	No File Uploaded

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

00

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	No File Uploaded

## 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	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

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

30



File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View File</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View File</a>
Institutional Data in Prescribed Format	<a href="#">View File</a>

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

767

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

### 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	<a href="https://bcrec.ac.in/feedback.html">https://bcrec.ac.in/feedback.html</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

<b>1.4.2 - Feedback process of the Institution may be classified as follows</b>	<b>A. Feedback collected, analyzed and action taken and feedback available on website</b>
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File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://bcrec.ac.in/feedback.html">https://bcrec.ac.in/feedback.html</a>

## 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

934

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

#### 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

201

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

### 2.2 - Catering to Student Diversity

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

- The Institute admits students from diverse social and economic backgrounds, and the ability and extent of learning of the students are greatly influenced by their

own talents and other qualities. The Institute has created a structured mechanism for assessing students' learning levels.

- The first interaction takes place during the AICTE Induction Programme, when instructors analyze, recognize, and identify students. During the individual interaction session, Mentors assess Mentees' learning aptitude based on their academic performance, behavior, and social and psychological characteristics.
- With regard to the program for Slow Learners, each mentor is assigned a group of students per year to provide one-on-one counseling for overall improvement. Extra sessions are offered to slow learners, as well as efforts to enhance basic math and English skills.
- Advanced learners are encouraged to attend webinars, seminars, and expert lectures, and to become members of various professional bodies such as IEEE, CSI, and E-Cell, to publish papers, to participate in the innovative project and research work, to enroll in and become certified in MOOC courses, and to take competitive examinations such as GATE, GRE, CAT, and so on.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_2/2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_2/2_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2853	183

File Description	Documents
Any additional information	<a href="#">View File</a>

### 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 which are central to Outcome-Based Education (OBE).

**Course Delivery Methods:**

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

**Individual learning:**

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

**Experiential learning:**

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

**Participative /collaborative learning:**

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

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

Faculty also map the learning outcomes from the above initiatives.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_3/2_3_1/ADDITIONAL_INFORMATION/</a>

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

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

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

### 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

149

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

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

183

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

#### 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

74

File Description	Documents
Any additional information	<a href="#">View File</a>
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)	<a href="#">View File</a>

### 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

2035

File Description	Documents
Any additional information	<a href="#">View File</a>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

### 2.5 - Evaluation Process and Reforms

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

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

- Institute has implemented a digital evaluation of semester-end examination papers, which has helped in speeding up the evaluation process and increasing transparency. Students can raise about any discrepancy found in the assessment. Adoption of the above method as per MAKAUT guidelines ensures complete transparency in the system of internal assessment and strengthens the bond between faculty and students. The Institute's examination system is thus completely transparent.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_1/ADDITIONAL_INFORMATION/</a>

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

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



File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_5/2_5_2/ADDITIONAL_INFORMATION/</a>

## 2.6 - Student Performance and Learning Outcomes

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

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_2/2_6/2_6_1/ADDITIONAL_INFORMATION/</a>
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

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

**Theory subjects:**

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

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

**Practical Subjects:**

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

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

- Each CO has a target level and is achieved if the attainment is equal to or exceeds the target. Once the total attainment of CO is calculated, it is used for measuring the level of attainment of POs and PSOs.

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	Nil

### 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

837

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf">https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf</a>

### 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/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)****55.675**

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

**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****16**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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****2**

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="https://www.aicte-india.org/">https://www.aicte-india.org/</a>

### 3.2 - Innovation Ecosystem

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

R&D cell motivates the faculty members to submission of research proposals to various funding agencies. AICTE -MODROB and PRISM-DSIR project was sanctioned. Some projects are in the indifferent stage of consideration in AICTE.

Some Patent applications are also submitted for approval.

AICTE selected the institute for setting up the prestigious AICTE-IDEA Lab and sanctioned the fund of Rs 39.5 Lakhs.

Institute has also been selected for ATAL Ranking program.

Institute has published its vol: 3 no: 1 online journal in the name of BCREC Engineering Science Transaction (BEST).

Institute Innovative Cell was created to nurture the innovative idea of the students and faculty members.

Institute IPR cell organizes several workshops and webinars for awareness on IPR.

MOU with Capgemini Technology Services India Ltd., helped the students with selection in campus drive-through pre-placement training.

MOU with CSIR-CMERI, VITTI Research Foundation helped the students and faculty members for applying real-life projects in a different sector.

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_3/3_2/3_2_1/ADDITIONAL_INFORMATION/</a>

### 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

45

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.3 - Research Publications and Awards

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

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

4

File Description	Documents
URL to the research page on HEI website	<a href="https://bcrec.ac.in/BCREC_R&amp;D.html">https://bcrec.ac.in/BCREC_R&amp;D.html</a>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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

67

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

### 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

76

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 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

Multifarious activities in the Institute involving the students with the objective of sensitizing them about various social issues and strengthening community participation for holistic development are carried out inside the campus under the banner of NSS.

The Ministry of Culture, GOI has introduced one major event "Rastragaan" for celebrating 75 years of Independence. The students must sing and upload the National Anthem to the given link shared by the GOI and show their patriotism.

An online poster presentation on: "Single-use Plastic Waste" was conducted to engage the faculty, students, and staff as a part of the Clean India campaign.

Women's Day is celebrated as part of Gender Sensitization

programs. A webinar "Inspiring Women in Technology" was conducted to aware the students.

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

In keeping with the Swasth Bharat initiatives all across the country, students reached out to villagers in Dashirbad, Durgapur as part of the Outreach Programme.

One session was conducted to give a broad idea about initial preparedness for a start-up, and an idea about legal & Ethical Steps for a start-up.

Needs of the marginalized people especially women and children from the underprivileged sections of society get priority.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_3/3_4/3_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

9

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of awards for extension activities in last 5 year (Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

### 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

4

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

### 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

496

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 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

378

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

### 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

9

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

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

- Located on 10.11 acres of land
- 35686 sq. m. built-up area
- Well equipped spacious 55 classrooms (12 smart classrooms) and ICT enabled with projector facility
- Tutorial rooms as per AICTE requirement
- Dedicated Seminar halls
- Laboratories with experimental set-ups, computers & peripherals and Instructors to provide constant support

and maintenance.

- Separate R&D labs to carry out research activities.
- Industry tie-up laboratories like Texas Instruments Innovation Lab in collaboration with Texas Instrument, USA, and VLSI lab in tie-up with Xilinx, USA to provide the students hands-on experience and wide exposure
- AICTE IDEA Lab imparting 21st century skills
- Language Lab with modern accessories
- Adequate Staff rooms, Toilets, etc.
- Wi-Fi enabled campus
- Two dedicated Central Computer Centres with 257 desktops
- Six computers in Digital Library, 144 computers in various departments and offices.
- 27 Computer labs with a total of 1207 computers having uninterrupted power supply backed by sufficient number of UPS
- Five generators with 246 KVA for back-up power supply.
- Two Auditoriums with state-of-the-art facilities to carry out extra-curricular activities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_1/ADDITIONAL_INFORMATION/</a>

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	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_2/ADDITIONAL_INFORMATION/</a>

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

16

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_3/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_1/4_1_3/ADDITIONAL_INFORMATION/</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 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)

31.24

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template	<a href="#">View File</a>

#### 4.2 - Library as a Learning Resource

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

- Central Library of the Institute occupies a very important place in the campus.
- It supports study, teaching-learning process and research activities and provides a learning space for the students (UG & PG), staff and faculty members.
- Central Library is housed in a sprawling three storied building with a carpet area 1091.16 sq.m.
- The Central Library is automated with Integrated Library Management Software, LIBSYS 4, and Version LSEASE (Rel. 6.1).
- The College Library System has a total collection of 7439 titles and 93,005 volumes of books (including 58625 volumes in the Book Bank and 3960 volumes in Departmental Libraries). Users have access to publications of all all major publishers like Elsevier, Springer, Wiley, IEEE, TMH, Pearson, etc.
- The Library subscribes to about 60 printed journals and 15 printed magazines. It also subscribes to a good number of e-journals in the field of engineering, science and management [e.g. IEEE-ASPP (192 titles), Sage (11 titles)

etc.] .

- It is a member of DELNET (1566 E-BOOKS AND 1100 E-JOURNALS) and NDLI (6 lakh e-books) providing access to in STEM subjects.
- 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	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_2/4_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_4/4_2/4_2_1/ADDITIONAL_INFORMATION/</a>

**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	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**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)**

**22.62**

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

#### 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

51

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

#### 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 540 (500+40) 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. Wi-Fi facility in all hostels is for 24 hrs.
- The campus is governed by Microsoft Campus Licensing Agreement.
- A dedicated Computer Centre with more than 300 desktops is provided.
- Our ERP server on the cloud (www.bcrecdgp.ac.in) offers ERP services to the college from any end of the globe.

- In order to ensure safety and security of data, a licensed Sophos firewall with web and application filters are used.
- The IT infrastructure in the last year is tabulated below:

YEAR

2021-22

Number of Computers (in working Condition)

1313

Laptops

18

Servers

4

Wi-Fi / Access Points/ Switches

176

Open source software

20

Types of Licensed Software

68

Printers (in working condition)

66

No. of Scanners

18

No. of Online UPS

25



**No. of CCTV Cameras**

49

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_4/4_3/4_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_4/4_3/4_3_1/ADDITIONAL_INFORMATION/</a>

**4.3.2 - Number of Computers**

1313

File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution**

A. ? 50MBPS

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

**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)**

160.59

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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 minor 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_4/4_4/4_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_4/4_4/4_2/ADDITIONAL_INFORMATION/</a>

## 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

159

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

#### 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

345

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>
<b>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</b>	<b>B. 3 of the above</b>
File Description	Documents
Link to Institutional website	<a href="https://bcrec.ac.in/BCREC_TRAINING.html">https://bcrec.ac.in/BCREC_TRAINING.html</a>
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>
<b>5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>	
<b>580</b>	
<b>5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>	
<b>580</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>
<b>5.1.5 - The Institution has a transparent mechanism for timely redressal of student</b>	<b>A. All of the above</b>

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

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 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

538

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

### 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

26

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of student progression to higher education	<a href="#">View File</a>

### 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

10

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

### 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.

4

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
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)	<a href="#">View File</a>

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 )

Our institute has a Students' Council, encompassing students of all years of the college and the council act as three different bodies - (1) Student Academic Council, (2) Student Social & Cultural Council and (3) Student Administrative Council. The Chairperson is Dean (Students' Welfare & Alumni) and three faculty advisors co-ordinate with the students. Functions of Academic Council (represented by 5-6 students) is to get the feedback on teaching-learning processes from the departments, pertaining to quality improvement. Various events/activities like technical workshops, Technical Fest, skills/knowledge enhancement programmes etc. are conducted in alliance with respective professional bodies such as CSI, IEEE, IET under the banner of Student Chapters. Functions of the Administrative Council is to take care of the feedback on Hostels and Amenities, Anti-Ragging initiatives, Alumni Association, Grievance Redressal, NSS etc. Social and Cultural Council promotes and encourages the involvement of students in organizing various sports, social initiatives and community outreach programmes and recreational activities of the college in coordination with faculty mentors. Institute has set up NSS to sensitize students towards societal issues and community services, activities of which is mainly carried out by the students. Finally, Alumni Association is in place to strengthen the relationship amongst alumni.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_5/5_3/5_3_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_5/5_3/5_3_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

3

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
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)	<a href="#">View File</a>

### 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 and it was registered in 2008.
- 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.
- Though informal contribution of Rs 3.48 lakhs has been received from Alumni till date, they have been 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. Avijit Sham, President Alumni association, is helping the IQAC as active members for enhancement quality of our college.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_5/5_4/5_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

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

- BCREC is governed by Dr. B. C. Roy Engineering College Society.
- Members of the B.O.G of the College have been constituted as per the guidelines of AICTE, and meets regularly during 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, Deans, HODs and Registrar, Head (Admn.), Campus Administrator as members taking care of all academic and administrative issues like budget, recruitment, purchases, admissions, promotions, conferences, variation in intake etc., are discussed and approved in the meeting and thereafter implemented. The meetings are held every two months.
- To ensure the quality and imbibe the culture of excellence, IQAC has developed the Strategic Plan aligning with vision and mission of the Institute. Faculty opinions and participation is given due weightage by their participation in various committees like Anti-ragging, IQAC, Research, Examination, Placement, Internal Complaint Committee (ICC) to ensure the value addition
- Student Council meetings are held every month to brief students on important decisions and consider their suggestions and look into their grievances, if any.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

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

#### Case Study

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

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

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

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

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

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

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_1/6_1_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

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

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

Case study

Institute have set their priorities as being a prime aide in

employment generation for their students. A few comprehensive strategic changes over the last two years have redefined the performance standards.

The Campus team comprising of senior and experienced professors monitor the training and placement activities since July, 2018 alongside the Training & Placement Team of Kolkata. The team had refurbished the complete training process making a few vital changes with three distinct components, Aptitude, Technical and Verbal & Soft Skills; as a result during the academic year 2021-22, 944 job offers are received by the students out of which 538 are single offers. 465 single offers are for engineering, 28 single offers for MCA and 45 single offers are for MBA. The overall single offer placed percentage stands at 65% where the LOIs are available.

For B. Tech (lakhs per annum ) Highest Package : 12 Average Package : 3.99

For MBA (lakhs per annum ) Highest Package : 9 Average Package : 3.26

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

- The Institute has an internal Organizational Structure that has evolved over 20 years which is displayed in the website. The hierarchy is followed at every level.
- The Institute is managed by the Board of Governors (BOG).
- The Institute has decentralized its operations and has delegated authority at various levels to ensure good

governance.

- The Statutory bodies of the College are the Academic Council (AC) and Internal Quality Assurance Cell (IQAC) framed as per norms of AICTE. These bodies play an important role in framing policies and its execution.
- The Principal is the academic and administrative head who monitors the overall functioning and growth of the Institute. Principal acts as the Member-Secretary of the BOG and the Chairman of Academic Council and IQAC.
- The involvement of the effective leadership is achieved through the well-defined system and organizational structure.
- The Institute has Service and Recruitment Rules as per the norms of the Government of West Bengal.
- Promotion Rules are as per the norms of AICTE/ Government of West Bengal.
- Service Rules & Regulations are displayed in the website for dissemination amongst the faculty and staff.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_2/6_2_2/ADDITIONAL_INFORMATION/</a>
Link to Organogram of the institution webpage	<a href="https://bcrec.ac.in/BCREC_BOG_STRUCTURE_PRESSENT.html">https://bcrec.ac.in/BCREC_BOG_STRUCTURE_PRESSENT.html</a>
Upload any additional information	<a href="#">View File</a>

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

**B. Any 3 of the above**

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

### 6.3 - Faculty Empowerment Strategies

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

Progress of an organization depends on its employees. The Institute has effective welfare schemes for the benefit of its teaching and non-teaching staff. All faculty and staff are insured for medical coverage. Institute encourages its teachers in acquiring the latest skills by deputing them for various programs/conferences. Institute supports the teachers by providing Special Leave/Study Leaves to pursue Project/Doctoral/Post-Doctoral research. The Institute has rules for Leaves, DA and HRA, EPF, Gratuity, ESIC scheme, Medical insurance of Rs 1.50 lakhs, Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. Sports, Gym (male & female), Transport facility, Residential Accommodation, Canteen Facility etc. All the above facilities are mentioned in the Service Rules which is displayed in the website. Campus medical assistance through a MBBS doctor as well as a Professional Counsellor to address stress and depression of the Staff. The Institute has Grievance Redressal committee, Internal complain committee, SC/ST Committee responsible to sort out the issues/complaints, if raised by any staff.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

### 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

14

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

### 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

125

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

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

- A systematic and effective Performance Appraisal System



of the Institute provides teaching and non-teaching staff with eloquent appraisals that encourages professional learning and growth. Appraisal System for performance review of the faculty members is conducted by the Appraisal Committee of the Institute comprising of senior academicians/technocrats duly appointed by the Principal on the basis of following criteria. A structured "Self-Appraisal Form" is given to each faculty member for evaluation purpose. The concerned HOD gives their remarks on the performance of the faculty member.

- Performance Appraisal form for Non-Teaching staff is based on the qualitative and quantitative responses towards performance parameters.
- Performance Review is conducted at the end of an academic year. Wherever, there is scope for improvement, it is communicated to the concerned faculty/staff through the HoDs/ Reporting officials.
- Criteria

#### Marks

#### Allotted Marks

1. Power Point Presentation on a topic of the concerned subject & Question-Answers on PPT 15
2. Subject Knowledge & Skill 30
3. Ability to deliver lectures & Communication Skills 20
4. Research Contribution/Paper Publication/Newsletter 20
5. Engagement in other departmental/institutional activities (MAR, MOOCs, Exam, Placement, NBA, NAAC, NIRF) 15

Total: 100

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_3/6_3_5/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

#### 6.4 - Financial Management and Resource Mobilization

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

College conducts internal and external financial audits regularly.

##### A. Internal Audit

The Internal audit is entrusted to qualify Auditors who carry out internal audit checks every quarter and they do a thorough check and verification of all financial transactions with the supporting documents and approval of proper authority for each transaction. The financial transactions are accounted in Tally.ERP-9 by the college.

Internal Auditor will examine all vouchers on cent percent basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers.

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

##### B. External Audit

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AOAR_2021-22/CRITERIA_6/6_4/6_4_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

#### 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)

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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

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

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

The college obtains proposals from the concerned departments regarding expenditure in an academic year, which is matched with the projected income for an academic year and is consolidated by the Principal of the College for approval by the Society that manages the affairs of the College. Once it is approved by the Society, the Principal apprises the Departments of the allocation so that re-appropriation of budget outlays

are avoided or kept to the minimum. After the allocation, the departments can avail the financial resources within the given limit.

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

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

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_4/6_4_3/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

## 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

ECE Department received grant Of 13.875 lakhs from AICTE for Up-gradation & Modernization of "VLSI Lab (Phase-II)" to enhance teaching, training and research capabilities in VLSI domain. Also, a grant of 2.3 lakhs received by Electrical Engineering Department for PRISM project, "A Fuzzy Based Solar Egg-Incubator: A Low cost New Technology"

R&D Cell applied for establishment of AICTE IDEA Lab with a proposal of Rs 78.99 lakhs. Out of 204 applicants, 49 proposals were selected and the Institute received the approval on 17/06/2021. Fund of 39.5 lakhs will be sponsored by AICTE.

### Practice - 2

Institute has signed MoUs withCappgemini Technology Services India Ltd. to inhance industry institute partnership. Moreover, to develop research culture and and more skill based / industry need based development / partnership institute has signed MoUs withVITTI Research Foundation &CSIR-CMERI during the AY 2021-22.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_5/6_5_1/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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 during the pandemic through virtual mode, IQAC has taken initiative such that all the students are provided with class notes as per the Class Schedule, after the on-line mode of teaching is over through Google Meet. IQAC further advised to take virtual lab classes following the MHRD virtual lab portal. Institute also took initiative for recording of videos of real-time lab execution and sharing with the students.

IQAC further suggested that the students should be counseled through the Mentors to reduce the stress in students during the pandemic. 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 at large with the hope that after the Institute opens in physical mode, the same may be conducted. IQAC has conducted academic audit for all departments

(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. Following the advice of IQAC, the Feedback structure was totally re-vamped and the total feedback analysis (Students, Faculty, Alumni, and Employers) has been displayed in the college website. Even the Student Satisfaction Survey (SSS) Analysis regarding Teaching - Learning and Evaluation has been made to upgrade the quality in higher education.

File Description	Documents
Paste link for additional information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_6/6_5/6_5_2/ADDITIONAL_INFORMATION/</a>
Upload any additional information	<a href="#">View File</a>

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

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf">https://srv15-bcrec.in/vc/IOAC/BCREC_IOAC_REPORT.pdf</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## **INSTITUTIONAL VALUES AND BEST PRACTICES**

### **7.1 - Institutional Values and Social Responsibilities**

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

- Gender Sensitization is an important concern. Periodically, the Institute organises programmes and events to raise awareness of the issue.
- The Institute seeks to promote gender equality by organising seminars, debates, and group discussions for both boys and girls on a single platform, as well as a programme to raise awareness about women's empowerment and gender sensitivity, cybercrime, and self-defense.
- The institute has established a number of committees with senior female faculty and staff members, including: Anti-harassment Committee, Women Redressal Cell, and Internal Complaint Committee (ICC), in accordance with Statutory Authorities' rules and regulations.
- Separate common rooms with basic amenities exist for boys and girls at the college.
- The female faculty members of the aforementioned Committees provide consistent counselling services to both female and male students.
- In collaboration with police officials of the local area, Durgapur, and the Burdwan district, awareness programmes on women's empowerment and gender sensitivity, cyber-crime, and self-defense were held on the college grounds in 2020, with enthusiastic participation from female collectives of the Institute.

File Description	Documents
Annual gender sensitization action plan	<a href="https://bcrec.ac.in/GenderSensitizationActionPlan.pdf">https://bcrec.ac.in/GenderSensitizationActionPlan.pdf</a>
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	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_1/ADDITIONAL_INFORMATION/</a>

## 7.1.2 - The Institution has facilities for alternate sources of energy and energy

A. 4 or All of the above

conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- The Institute's environment is environmentally friendly. The institute has made concerted efforts to enhance and cultivate an eco-friendly environment, and it strives continually for a sustainable campus environment.
- A dedicated team of gardeners and sweepers cares for the campus's lawns, gardens, plantation, maintenance, etc. on a regular basis in order to preserve its green environment.
- The Institute has taken all measures in accordance with the Swachha Bharat Abhiyan to educate its students and employees through various activities such as seminars, webinars, NSS cells, etc.
- The Institute has an effective waste disposal system. The Durgapur Municipality collects non-biodegradable waste while the organic solid waste is separated and used to prepare compost for in-house consumption. At the canteen and hostel, solid waste is separated at the source using green and blue garbage cans.
- Collected liquid waste is discharged into the municipal sewage system.
- E-waste is assembled in innovation labs, where students cannibalise the necessary components, and then sold to an E-waste collection company.



File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

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

<p><b>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</b></p>	<p><b>A. Any 4 or all of the above</b></p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

<p><b>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></p>	<p><b>B. Any 3 of the above</b></p>
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File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<a href="#">View File</a>
Details of the Software procured for providing the assistance	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

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).

- Institute is well-known not only for its pursuit of academic excellence, but also for its HR policies of empathy, societal consciousness, and harmonious relationship with the culture and sensibilities of its surrounding environment.

- The Institute's faculty/staff and students are a diverse cross-section of India, and they celebrate each other's festivals, music, and art. The Orientation Programs for students include artistic contributions from each of the students' home states. The band and cultural events of the students reflect the diversity of musical and cultural performances.

- Linguistic differences are assimilated by mandating the use of a common professional language, such as English, during business hours.

- Communal divides are rare. The Institute has a strong and enduring dedication to its social responsibilities. The NSS Cell has engaged in numerous socially responsible initiatives in the realm of charity work for the underprivileged in society.

- Ramps, lift facilities, and even specially designated assisting staff members are provided for disabled students, employees, and teachers.

In the Soft Skills Sessions, LGBTQ Awareness, Rights, and Empowerment are discussed in Group Discussions. This is done to eliminate students' initial misgivings and apprehensions about dormitory life, as well as to promote campus-wide sensitization and inclusiveness.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

- The Institute is fully cognizant of its prestigious role as the architect of India's next generation. The Institute is committed, in word and deed, to the Indian Constitution's philosophy.
- A copy of the Constitution's Preamble is kept in the reception area of the Main office building to demonstrate the importance the Institute places on it.
- On Constitution Day, the Institute renews its commitment to the Constitution by verbatim reciting the Preamble.
- The Institute focuses on instilling a sense of responsibility towards the Constitution in its students through a variety of initiatives, including the New India Pledge ceremony on Republic Day and Independence Day.
- As part of the curriculum, Constitution of India/Essence of Indian Knowledge & Traditions is offered for no academic credit.
- In accordance with the principles and values of Community Service, the Institute routinely organises  
The Swacch Bharat and Swasth Bharat Initiatives.
- Each year, in conjunction with NGOs, National Service Scheme (NSS) hosts Organ Donation Pledge Workshops to educate students about the urgent need for more individuals to become organ donors.
- Each year, World Environment Day is celebrated with great zeal by planting trees on campus.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://srv15-bcrec.in//vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/Additional_Documents.pdf">https://srv15-bcrec.in//vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/Additional_Documents.pdf</a>
Any other relevant information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_1/7_1_9/ADDITIONAL_INFORMATION/</a>

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

**A. All of the above**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

**The Institute has a rich history of commemorating national and international commemorative days, events, and festivals.**

**The institute buildings include Vidyasagar Bhawan, Ashutosh Bhawan, Mahalanabish Bhawan, Sister Nivedita Girls Hostel, Chittaranjan Boys Hostel, and Satyen Bose Boys Hostel, among**

others.

The names of the gardens include Vivek Udyan, Rabindra Udyan, Bidhan Udyan, etc.

The institute has a longstanding tradition of celebrating Republic Day and Independence Day with vigour and zeal. The celebration consists of a parade of NCC members from the student group, the unfurling of the national tricolour flag, the singing of the national anthem, and an address by the Principal for the special days.

In commemoration of the adoption of India's constitution in 1950, the Constitution Day celebration is yet another national event that instils spirit and devotion to our nation's Constitution.

The institute makes every effort to celebrate Swami Vivekananda's birth anniversary at the Vivek Udyan, which is named after him.

The institute celebrates National Education Day in remembrance of the contributions of Bharat Ratna Maulana Abul Kalam Azad.

The Institute commemorates Teachers Day on Dr. S. P. Radhakrishnan's birthday, September 5.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.2 - Best Practices

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

### Best Practice 1

#### Career Guidance Training

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

## Best Practice 2

### Content beyond Curriculum

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

File Description	Documents
Best practices in the Institutional website	<a href="https://bcrec.ac.in/BCREC_BEST_PRACTICES.html">https://bcrec.ac.in/BCREC_BEST_PRACTICES.html</a>
Any other relevant information	<a href="https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/">https://srv15-bcrec.in/vc/AQAR_2021-22/CRITERIA_7/7_2/7_2_1/ADDITIONAL_INFORMATION/</a>

## 7.3 - Institutional Distinctiveness

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

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

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

Institute has also focused on developing an innovation culture among the students and faculty members. Alinging to this goal institute has setup Institute Innovation Council (IIC) and encouraing students and faculty members towards developing innovative ideas which will covert to some kind of usable products. The AICTE IDEA lab has been setup in the institute to encourage concept ideation using the lab. Also, IDEA lab is helping students and teachers / faculty members of nearby different other institutes to develop skills in the emerging areas. Building up of an innovation hub is under progress as part of MoU with VITTI Research Foundation.

File Description	Documents
Appropriate web in the Institutional website	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.3.2 - Plan of action for the next academic year

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

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

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



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

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

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

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