



YEARLY STATUS REPORT - 2023-2024

Part A

Data of the Institution

1.Name of the Institution	
	BABA BANDA SINGH BAHADUR ENGINEERING COLLEGE
• Name of the Head of the institution	DR LAKHVIR SINGH
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	01763503056
• Mobile no	9814221213
• Registered e-mail	principal@bbsbec.ac.in
• Alternate e-mail	jpsoberoi@gmail.com
• Address	Near Jyoti Saroop Morh
• City/Town	FATEHGARH SAHIB
• State/UT	Punjab
• Pin Code	140407
2.Institutional status	
• Affiliated /Constituent	AFFILIATED
• Type of Institution	Co-education
• Location	Urban

• Financial Status	Self-financing				
• Name of the Affiliating University	IKG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR				
• Name of the IQAC Coordinator	DR AMANPREET SINGH SETHI				
• Phone No.	9855043335				
• Alternate phone No.	9872988729				
• Mobile	9855043335				
• IQAC e-mail address	APS. SETHI@BBSBEC. AC. IN				
• Alternate Email address	NAAC@BBSBEC. AC. IN				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://bbsbec.edu.in/wp-content/uploads/AQAR-BBSBEC/				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://bbsbec.edu.in/academic-calendar/				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.15	2021	16/03/2021	15/03/2026
6.Date of Establishment of IQAC			09/02/2018		
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	
Nil	Nil	Nil	Nil	Nil	
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	4
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> If yes, mention the amount 	
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
The IQAC has institutionalized quality audits, including internal and external at various levels to ensure continuous improvement in the institution's functioning.	
IQAC has played a pivotal role in institutionalizing structured alumni engagement practices. An active Alumni Association already exists to foster collaboration between the institution and its alumni. Regular alumni meet-ups, webinars, and mentorship programs are organized to leverage their expertise for career guidance and networking opportunities for students.	
The institution, under the guidance of the IQAC, emphasized on structured add-on courses to enhance students' employability and skills. These courses have been designed based on feedback from stakeholders, including industry experts, alumni, and students. Programs like "IIT Bombay Spoken Tutorial", "Introduction to Programming with Python", "Design Thinking and Creativity for Innovation", Life Skill Development" etc. have been conducted. The courses were integrated with the existing curriculum, offered during spare time, weekends or semester breaks, and delivered by subject matter experts.	
In line with its mission to foster innovation, the institution revamped its research and innovation ecosystem with IQAC's support. Dedicated workshops on Intellectual Property Rights (IPR) and patent filing were conducted to raise awareness among faculty and students.	
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
To conduct Quality Audits in various areas	Audit have been conducted in various domains including academics, administration, accounts, emery, environment, waste management
To ensure holistic growth of students	19 add-on courses have been conducted, benefiting more than 900 students
To strengthen institute-industry collaboration	Have been done through alumni engagement, expert talks and facilitation in placement and internship activities
To promote IPR culture	8 patents have been granted and various others filed
To make the campus greener	Tree plantation drives have been conducted, land for personal kitchen gardens allocated for campus residents faculty/staff members. Green audit has also been conducted.

13. Whether the AQAR was placed before statutory body?

No

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

14. Whether institutional data submitted to AISHE

Year	Date of Submission
2022-23	27/02/2024

15. Multidisciplinary / interdisciplinary

1. Baba Banda Singh Bahadur Engineering College has

consistently emphasized a multidisciplinary approach in both its academic and co-curricular activities. 2. In collaboration with the affiliating university, IKGPTU, the college has implemented the major and minor degree concepts to enable students to explore interdisciplinary studies and align with cutting-edge technologies. 3. Students are encouraged to undertake minor/major projects in multidisciplinary and interdisciplinary modes, fostering innovation and teamwork. 4. Additionally, students are motivated to form diverse teams across disciplines to participate in events such as Hackathons, enhancing their collaborative and problem-solving skills. 5. The college has also been proactive in organizing webinars and seminars on various interdisciplinary topics to broaden students' horizons and enhance their practical knowledge. Notable initiatives include the Entrepreneurship Workshop by KVIC under PMEGP, Computing Research in Curricula: Knowledge, Education, & Training, Generative AI on Quantum Computing, and Computing for Agriculture. These sessions aim to expose students to emerging fields and technologies, equipping them with the skills required to excel in a dynamic global environment. 6. Furthermore, senior faculty members of the college, who are part of the Board of Studies, are actively contributing to aligning the curriculum with the principles of NEP 2020. This includes revising the curriculum for students admitted from the 2022-23 session onwards, offering opportunities for minor degrees in fields beyond their core disciplines. These efforts reflect the college's unwavering commitment to fostering holistic education, promoting innovation, and preparing students for the challenges of the future.

16. Academic bank of credits (ABC):

Baba Banda Singh Bahadur Engineering College is dedicated to aligning its academic framework with the objectives of NEP 2020 by implementing the Academic Bank of Credits (ABC). The institution has already established an online record system for tracking students' academic credits and is actively working towards creating personalized credit banks for each student. This initiative empowers students to pursue additional courses through national platforms like SWAYAM, NPTEL, and other MOOC providers, with the credits earned being seamlessly integrated into their academic profiles against elective courses. To ensure the effective implementation of the Academic Bank of Credits, the college has undertaken the following comprehensive measures: a. Web Infrastructure Development: Planning and enhancing a state-of-the-art web-based system for managing the Academic Bank of Credits efficiently. b. Mechanism for Credit Management: Establishing a robust system for maintaining, updating, and integrating

the Academic Bank of Credits with the students' academic records. c. Dedicated Team Formation: Creating a dedicated team with experienced members to oversee the implementation and ensure smooth operation of the ABC system. d. Faculty Training Initiatives: Conducting regular training programs and workshops for faculty members to familiarize them with the operational intricacies of the ABC system and enhance their technical proficiency. e. Student Support & Grievance Redressal: Setting up a student-friendly mechanism to address grievances related to credit transfer, particularly for those transferring to other institutions or universities nationwide. f. Encouraging Interdisciplinary Learning: Motivating students to explore interdisciplinary courses to enhance their knowledge base and prepare them for emerging trends and technologies. g. Digital Credit Integration: Exploring collaborations with national educational technology providers for the seamless integration of digital credits into students' academic records. The faculty members are also encouraged to innovate and personalize their pedagogical approaches within the approved university framework. These methods include the incorporation of experiential learning tools such as case studies, interactive presentations, role-playing activities, quizzes, and project-based assignments. 3. Furthermore, faculty members are developing content that aligns with interdisciplinary and emerging areas of study, thereby promoting holistic education. 4. The institution has also initiated the introduction of mentorship programs to guide students in selecting suitable add-on courses and utilizing their credit banks effectively. 5. Moreover, collaborations with industry experts are being explored to integrate practical training with academic pursuits, enabling students to gain hands-on experience while earning credits. Baba Banda Singh Bahadur Engineering College's commitment to the implementation of the Academic Bank of Credits reflects its vision to build a flexible, inclusive, and forward-thinking academic ecosystem, preparing students to thrive in a rapidly evolving educational and professional landscape.

17. Skill development:

Baba Banda Singh Bahadur Engineering College (BBSBEC) places a strong emphasis on skill development to prepare students for dynamic career opportunities. Below are the initiatives under this focus: 1. Bachelor of Vocational (B.Voc) Programs Practical Skill Development: Designed to impart hands-on experience and practical knowledge aligned with industry standards. Enables students to take up specific job roles through predefined entry and multiple exit points. Industry-Focused Curriculum: Courses integrated with real-world applications, making students industry-aware and job-ready.

Emphasis is placed on work-integrated learning to bridge the gap between theoretical knowledge and practical application. 2. Soft Skills and Value-Based Learning Human Values and Personality Development Programs: Focus on developing socially active, mentally strong, and ethically responsible individuals. Equip students with professional ethics, critical thinking, and leadership skills for personal and professional growth. Constitution of India Course: Inculcates awareness about fundamental rights, duties, and the functioning of democracy. Encourages understanding of governance, justice, and the role of students as responsible citizens. 3. Online and Hybrid Learning Opportunities Self-Paced Certification Programs: Students are encouraged to take additional online courses through platforms like SWAYAM, NPTEL, and other e-learning portals. Credits from online courses are integrated into their academic records to enhance their skills and competencies. Hybrid Learning Mode: Offers flexibility to students from remote areas, allowing them to balance learning with other commitments. 4. Mentorship and Counselling Focused Guidance: Mentorship programs ensure students develop a strong foundation in technical and interpersonal skills. Regular counselling sessions imbue ethical values and problem-solving capabilities to foster well-rounded development. These initiatives collectively aim to create a highly skilled and socially responsible workforce ready to meet the demands of the modern industry.

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

Baba Banda Singh Bahadur Engineering College (BBSBEC) places a strong emphasis on incorporating the Indian Knowledge System into its academic and co-curricular framework. The institution strives to foster multilingualism, promote cultural heritage, and blend traditional and modern approaches to learning. Key initiatives include: Promotion of Multilingualism Faculty members are retrained to promote multilingual teaching practices, encouraging the use of home languages alongside English to enhance comprehension. Translanguaging techniques are employed, where students discuss concepts in one language and write in another, facilitating a deeper understanding of subject matter. Encouraging Indian Language Usage Faculty and students are motivated to use Indian languages in teaching and learning processes. Students are encouraged to take online courses to improve their proficiency in Indian languages and broaden their linguistic capabilities. Preserving and Promoting Indian Culture The institution organizes cultural programs, workshops, and celebrations to promote and preserve the rich cultural heritage of India. A dedicated Literary Society nurtures the literary instincts of

students, promoting creative expression in both Indian and global contexts. Familiarization with Indian Texts Students are introduced to the nature of Indian primary texts, helping them develop critical abilities by reading and analyzing content from traditional Indian knowledge systems. Paraphrasing and interpretation of texts are done bilingually, ensuring better understanding and integration of knowledge. Bridging Indian and Western Thought Students are encouraged to connect Indian philosophies and ideas with Western concepts introduced in their coursework. Faculty guides students to relate ideas from various disciplines, fostering a holistic approach to knowledge. Critical Thinking and Contextual Relevance Students are encouraged to relate the knowledge derived from Indian texts to the present-day context, developing critical thinking skills. The institution emphasizes internalizing knowledge and pursuing further research on Indian thinkers and texts. By embedding these strategies into the curriculum, BBSBEC not only enhances the learning experience but also instills a sense of pride in Indian language, culture, and heritage among students, preparing them for a balanced and global perspective.

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

Baba Banda Singh Bahadur Engineering College (BBSBEC) has made remarkable progress in implementing Outcome-Based Education (OBE) to empower students with the knowledge, skills, and competencies required to excel in their professional careers. The institution's approach ensures that students are well-equipped to meet industry demands and societal expectations. Key initiatives under OBE include:

- Industry-Aligned Curriculum** The institution incorporates industry-relevant skills into the curriculum to prepare students for real-world challenges. The focus is on bridging the gap between theoretical knowledge and practical application by integrating advanced tools and techniques.
- Skill Development Programs** Essential Skill Training: Grammar, communication, logical reasoning, aptitude, and pre-placement training are part of the curriculum to help students succeed in interviews and competitive exams. Technical skills such as Tally, ERP and advanced Excel are included to enhance employability and career advancement.
- Data and Information Analytics:** Given the growing importance of data analytics in the job market, students are trained in these areas to ensure they remain competitive and efficient in their professions.
- Mock Interviews and Pre-Placement Training:** Regular mock interviews and pre-placement sessions are conducted to boost students' confidence and preparedness for professional opportunities.
- Value-Added and Add-On Courses** MOOCs and Certification Programs: Students are encouraged to enroll in

online courses and certifications offered through platforms like SWAYAM and NPTEL. These courses supplement their technical and interpersonal skills, adding value to their academic credentials.

Technical and Interpersonal Skills: As part of the value-added programs, the institution integrates technical expertise with interpersonal and leadership skills development. Emphasis on Leadership and Ethical Values The institution fosters the development of leadership qualities, encouraging students to take on roles that require initiative and responsibility. Social, legal, and moral values are emphasized to ensure students are not only skilled professionals but also ethical and socially responsible individuals.

NEP 2020 Integration In alignment with the National Education Policy (NEP) 2020, the curriculum focuses on combining knowledge with wisdom. Students are trained to develop a balanced outlook that integrates technical knowledge with ethical decision-making and problem-solving skills.

Cost-Free Training Opportunities All training programs, including advanced Excel, aptitude building, and mock interviews, are provided free of cost to ensure accessibility for all students. These initiatives are conducted in association with the institution's Training and Placement (T&P) cell and partner agencies. By focusing on these strategies, BBSBEC ensures that its students are equipped with the skills, confidence, and values needed to excel in their professional careers and contribute meaningfully to society.

20. Distance education/online education:

Baba Banda Singh Bahadur Engineering College (BBSBEC) is committed to evolving with modern educational trends and providing students with flexible learning opportunities. While the institution currently follows the curriculum prescribed by the affiliating university, there are several initiatives and future strategies to integrate distance and online education. Key actions include:

Integration of Mandatory Online Learning Platforms In alignment with the university's curriculum, BBSBEC encourages students to engage in Massive Open Online Courses (MOOCs) through platforms such as SWAYAM, NPTEL, AICTE, and CEC. These platforms offer courses of varying durations (8, 12, or 16 weeks), enhancing the learning experience. The integration of MOOCs supports flexibility in learning, helping students to expand their knowledge beyond the traditional classroom setup.

Fostering Open and Distance Learning (ODL) Mode While the institution primarily follows a structured curriculum, the demand for open and distance learning (ODL) is being addressed by incorporating vocational courses and short-term certifications through online modes. BBSBEC aims to further expand ODL offerings in subjects like languages, soft skills, digital marketing, and technical courses.

This would provide students with the opportunity to develop 21st-century skills, essential for thriving in a digital-first world.

Offering Vocational and Value-Added Courses The institution emphasizes providing courses that supplement traditional learning such as digital marketing, advanced Excel, communication skills, and aptitude training. These courses are designed to equip students with practical skills that enhance their employability and preparedness for the modern job market. BBSBEC recognizes the increasing importance of online learning for skill development and intends to offer more vocational and technical courses in the near future, including those that bridge gaps in industry-specific knowledge.

Establishing as a Learning Centre for Open and Distance Learning BBSBEC has been selected by IKG Punjab Technical University, Kapurthala as a learning centre for offering ODL programs. The institution will serve as a regional centre for offering Ph.D. programs, reinforcing its commitment to higher education accessibility and innovation. This initiative positions BBSBEC as a leading institution in providing quality education through open learning, making advanced courses more accessible to students across the region.

Successful Transition to Online Learning During the Pandemic During the COVID-19 pandemic, BBSBEC successfully transitioned to an online learning mode, ensuring uninterrupted delivery of course content through digital platforms. This experience has prepared the institution to further expand its online presence and enhance its infrastructure for more robust digital education.

Moving forward, the college plans to continue leveraging online learning tools, ensuring that students have access to the latest educational technologies and resources regardless of their physical location.

Future Strategies for Online Education Expansion

Development of a Dedicated Online Learning Platform: The institution is considering the development of its own online learning platform to provide seamless access to course content, interactive lessons, and assessments.

Hybrid Learning Model: BBSBEC plans to implement a hybrid learning model that combines in-person and online education to accommodate diverse learning preferences and needs, especially for students from remote areas.

Collaboration with Industry for Online Training: To ensure the relevance and quality of the online courses, BBSBEC will collaborate with industry leaders to offer industry-specific training programs and certifications. By embracing the potential of online and distance learning, BBSBEC is taking proactive steps to offer a flexible, accessible, and comprehensive education that meets the demands of the evolving global job market.

Extended Profile

1. Programme

1.1	639
Number of courses offered by the institution across all programs during the year	
File Description	Documents
Data Template	View File
2.Student	
2.1	1788
Number of students during the year	
File Description	Documents
Institutional Data in Prescribed Format	View File
2.2	201
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	
File Description	Documents
Data Template	View File
2.3	195
Number of outgoing/ final year students during the year	
File Description	Documents
Data Template	View File
3.Academic	
3.1	146
Number of full time teachers during the year	
File Description	Documents
Data Template	View File
3.2	146
Number of sanctioned posts during the year	

File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	61
4.2 Total expenditure excluding salary during the year (INR in lakhs)	592.00940
4.3 Total number of computers on campus for academic purposes	937

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

Baba Banda Singh Bahadur Engineering College is affiliated to IKGPTU, Jalandhar and follows the curriculum prescribed by the University. The University academic calendar is discussed in Higher Forum Meetings and then college academic calendar is prepared by Dean Academics and Dean Examination. The Department meetings are conducted in each department for effective planning and implementation of curriculum. The points discussed in department meetings are:

- dissemination of college academic calendar
- allocation of subjects among faculty
- design of time table by the time-table committee of each department

Each faculty member maintains continuous evaluation record of students, prepares lesson plan, and course files for effective course delivery. The Departments plan the Seminars, Conferences, Workshops, Guest lectures and Industrial visits to improve the teaching learning process. The Institution provides ample books and other teaching and reference materials like journals, magazines, e-

journals and softwares and encourages faculty members to attend workshops and present papers in seminars conducted by the affiliating and other Universities for acquiring necessary skills for effective delivery of the curriculum. The adherence to curriculum delivery plan is reviewed by IQAC.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://bbsbec.edu.in/naac/1.1.1_2024.pdf

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

The academic calendar of the college has been prepared taking into consideration the declared calendar of the University, which is discussed in Higher Forum Meetings. Then college academic calendar is designed by Dean Academics and Dean Examination, which is also discussed in Higher Forum Meetings and reported to IQAC. The college academic calendar is disseminated to faculty through Heads of department. The new session is commenced and mid semester tests (MSTs) are conducted as per academic calendar schedule. Date sheets of all MSTs are disseminated to faculty through emails via Deputy Controller Examinations and same is sent to students in class whatsapp groups by the faculty. In case the dates of mid semester tests are required to be re-scheduled due to any un-avoidable circumstances, same is intimated to faculty by Deputy Controller Examinations/Principal and further information is conveyed to the students by faculty.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://bbsbec.edu.in/naac/1.1.2_2024.pdf

1.1.3 - Teachers of the Institution participate in A. All of the above following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.
Academic council/BoS of Affiliating University
Setting of question papers for UG/PG

programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

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

1.2 - Academic Flexibility

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

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

11

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

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

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

22

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

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

of students during the year

1234

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

1.3 - Curriculum Enrichment

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

•All the departments in the institute have courses in curriculum that deals with major issues related to Gender, Environment and Sustainability, Human values and Professional ethics.

• To inculcate human values and moral ethics in students a subject on Human Values is taught at UG level of college.

• There are full credit courses which are compulsory for UG students to provide awareness about the cross-cutting issues like gender, environment sustainability, human values and professional ethics these courses are included in IKGPTU syllabus and conducted by various departments every semester as part of curriculum.

The list of subjects is as attached:

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

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

48

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

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

1806

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

1.4 - Feedback System

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

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://bbsbec.edu.in/naac/1.4.1_feedback-report2023-24.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

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

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

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://bbsbec.edu.in/curriculumfeedback/

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

477

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

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

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

127

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

2.2 - Catering to Student Diversity

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

The institution assesses the students' learning levels at the commencement of classes. Students enrolled in various disciplines are identified as slow and advanced learners based on their +2 marks

and MST tests conducted by each department. Faculty members and various committees regularly review academic progress and counsel students to improve their performance to ensure their academic growth.

Strategies adopted for slow learners

1. Extra classes are organized regularly
2. Students are enrolled in various professional /creative clubs/sports events.
3. In each department, the activities are conducted by different clubs to enhance the skills of students
4. Alumni webinars are organized under Alumni interaction programs.
5. The IIT spoken tutorial test is conducted online.
6. The simple and standard lecture notes/course materials are provided to the students

Strategies for advanced learners

In addition to the mentioned activities, the advanced learners are further encouraged to:

1. enroll in MOOC Courses through Swayam
2. participate in various competitions such as debates, group discussions, problem-solving, decision-making exercises, and quiz programs.
3. take part in extra-curricular activities, exhibitions, and cultural competitions.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/2.2.1_AS_L_2024.pdf
Upload any additional information	View File

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

Number of Students	Number of Teachers
1788	146

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

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

As per the guidelines of AICTE, the College has adopted the student-centric approach. The methods under this approach include Lecture Method, Interactive Method, Project-based Learning, Computer-assisted Learning, Experiential Learning etc. The teaching-learning activities are made effective through illustration and special lectures. The faculty members make learning interactive by motivating the students to participate in group discussions, subject quiz and organize various technical and non-technical activities. This in turn enhances the technical skills and personality development of the students. The college follows the following student-centric methods:

- ICT Enabled Teaching
- Event Organization
- Industry Visits
- Sessions by Alumni
- Workshops
- Value Added Certifications
- Participation in Student Chapter Activities
- Assignments and Tutorials
- Project-Based Learning
- Research papers and Dissertation work

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

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

The ICT tools are being used by the College teachers to support, enhance, and optimize the delivery of education. To make the students familiar with latest technologies, the innovative techniques of teaching are combined with the traditional mode. The web based ICT tools such as Google meet, ZOOM etc can be used to connect the students, educators, scholars and researchers from all over the world. These platforms are to communicate, provide material, conduct tests, upload assignments, and address queries. Furthermore, the teaching of various courses through online platforms such as Swayam courses, Couresera, edX etc. in higher education provides independent learning to the students. The educational materials can be shared country-wide among many distance learners. Students can use their laptops or mobile phones to gain quick access to the information which is available and accessible any time and from any place.

The different ICT tools used by the faculty/staff and the students are as below:

1. Projectors- available in different classrooms/labs
2. Desktop and Laptops- with faculty/staff and laboratories
3. Smart Board- Two smart boards installed in two departments
4. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom
5. MOOC Platform (NPTEL, Coursera, SAP, Udemmy, edX etc)
6. Digital Library resources (DEL NET, e-journals, eshodh sindhu etc)

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

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

2.3.3.1 - Number of mentors

93

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

2.4 - Teacher Profile and Quality

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

146

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

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

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

51

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

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

2.4.3.1 - Total experience of full-time teachers

1977

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

2.5 - Evaluation Process and Reforms

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

- The college follows a structured process for conducting mid-semester and end-semester examinations. Out of 100 marks in each subject, 40 marks are allotted for the internal assessment and 60 marks for the end semester examinations.
- At the beginning of the semester, internal mid-semester examination schedule is shared with both students and faculty members through the academic calendar. The three Mid Semester Tests (MSTs) are conducted in one semester. Each MST is of 24 marks. After the tests, the marks obtained by the students are displayed on the notice board and their performance and doubts are discussed in the classes. The two best scores from the MSTs are averaged to determine the internal assessment. The MSTs are designed to align with Course Outcomes (COs), Performance Outcomes (POs), and Performance Indicators (PIs), using the Bloom Taxonomy as per the guidelines of AICTE. Further, 06 marks are given for the attendance and 10 marks are kept for assignments and quiz.
- External theory examinations worth 60 marks are conducted at the end of each semester. The College promptly shares the schedule (date sheet) for these exams with both faculty and students once it is announced by the university.
- Practical evaluations take place during laboratory sessions, with internal examinations carrying 30 marks and external practical exams carrying 20 marks.

File Description	Documents
Any additional information	View File
Link for additional information	https://bbsbec.edu.in/notice-board/

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

- If students have any grievances with their MST marks, they can discuss them with their respective teachers, who rectify the errors on the spot. The marks obtained by students in the MSTs are displayed on the department notice board.
- For any queries regarding the internal examination marks and end semester examination marks, such as corrections in subject marks or pending results, students can approach the Deputy Controller of Examinations via email at dcoe@bbsbec.ac.in. The college examination branch then forwards the concerns to the university and resolves the problems at the earliest.
- If a student wishes to apply for re-evaluation, reappearing in exams, or challenged evaluation, they must submit an application and pay the necessary processing fee to the university. If required, the student can also obtain a copy of the scanned answer sheet through their login. The university has its own procedure for addressing grievances, which is communicated to the students.

File Description	Documents
Any additional information	View File
Link for additional information	https://bbsbec.edu.in/student-grievance-redressal-committee-2/

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.

Programme outcomes, and course outcomes for all Programme offered by the institution are stated and displayed on the college website.

Mechanism of communication of POs, PSOs and COs to the stakeholders

- Display on the college website under each Department
- Displayed on the boards in each department
- Displayed in Class rooms and labs
- CO's are mentioned on each Mid-Semester Examination test for each subject
- Apart from this, POs and PSOs and COs are disseminated to all stakeholders of the program through the Student Handbook

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://bbsbec.edu.in/po-and-peos/
Upload COs for all Programmes (exemplars from Glossary)	View File

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

Step 1: Mapping of questions in the MSTs is done with COs of the subject.

Step 2: The excel sheet for calculating the attainment is prepared for every subject. The MST marks, assignment and tutorials sheet marks are filled in the respective excel sheets. The number of students above and below average (N1, N2) is obtained. The average marks of each question are also calculated. 100% achievement is considered for the students scoring above and equal to average marks and 50% achievement is considered for the students below average marks.

Step 3: Further the mapping of assignments and tutorials with the course outcomes is carried out. Following the same procedure mentioned in step 2, the final attainment of assignments and tutorials is obtained.

Step 4: External end semester university examination results are taken for each subject. The grades/marks are filled in the prepared format in the excel sheet. Again the average of the marks is calculated and the university attainment is evaluated.

Step 5: To obtain the final attainment, 40% weightage is given to the internal examinations, 30% weightage is given to MSTs, 5% weightage is given to assignments and 5% weightage is given to tutorials and 60% weightage is given to university examination.

Step 6: Applying the formula in the excel sheet the final attainment of COs is calculated. The mapping of POs with CO is done and the mapping of PSOs with COs is done and further the final attainment of

POs and PSOs from COs is calculated. The required results are automatically generated.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://bbsbec.edu.in/naac/2.6.2 Attainment Calculation Method 2024.pdf

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

450

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://bbsbec.edu.in/naac/2.6.3_2024.pdf

2.7 - Student Satisfaction Survey

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

https://bbsbec.edu.in/naac/2.7_SSS2023-24.pdf

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)

0

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
List of endowments / projects with details of grants(Data Template)	No File Uploaded

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

14

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

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

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

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

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

Baba Banda Singh Bahadur Engineering College and on these lines the

college has a vibrant ecosystem in the form of active Incubation Center through which the students and faculty of the college are motivated to bring in innovative ideas for resolution of any practical problem. The state-of-the-art, technologically advanced research facility has been created in the form of exclusive RESEARCH AND INNOVATION CENTRE.

The Research and Innovation Centre was established on 19 December 2015. An MoU has been signed with a consulting agency through which they assist in doing the prior research for the project. The inventor fills a Patent Information Extraction (PIE) form and the PIE form is then evaluated by the consulting agency. If the new invention is patentable then the patent is filed. After the initial filing then the full examination of the patent is done. The institute bears all the expenses, for patent filing in India and subsequent prosecution, grant and maintenance. 9 patents of our faculty members have granted in the year 2023.

As per the norms of MoE's Innovation Cell (MIC), Government of India, the college has established an Institution's Innovation Council (IIC) and the Innovation and Entrepreneurship Development Cell (IEDC) to promote the culture of innovation and entrepreneurship among students. The objective of this council is to systematically foster the culture of innovation and Start-up Ecosystem in education institutions. BBSBEC-IIC organizes various Innovation, IPR workshops/ seminars/ interactions with entrepreneurs, investors, and professionals throughout the academic year.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/research/research-and-innovation-center/

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

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

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

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

2

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

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

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

12

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

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

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

12

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

3.4 - Extension Activities

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

There are many extension activities carried out on various social issues for the holistic development of every individual as well as for the betterment of the society . Numerous activities , workshops as well as seminars such as job opportunities in Project Management , chess and carom competitions , Rangoli , Poster making events , seminars on employer's need , quiz on Republic day celebrations , talks on problem solving and idea generation as well as workshop on Mental health awareness has been organized through out the year to develop the sense of social responsibility service .

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/extension-activities/
Upload any additional information	View File

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

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

1

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

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

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

17

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

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

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

2057

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

3.5 - Collaboration

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

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

337

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

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

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

9

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The campus is spread over an area of 74.5 acres comprising high class buildings , classrooms with proper ventilation, well furnished laboratories, smart classrooms and Computer centre . The institution has state of the art infrastructure as under:

Facility Total Number Total Area in Sq.m

Class Rooms 56 4260 (approx.)

Tutorial Room UG 23 800 (approx.)

Tutorial Room PG 13 400 (approx.)

Labs 88 4400 (approx.)

Seminar Halls 5 850 (approx.)

Smart Class Rooms/seminar halls 49 3640 (approx.)

Auditorium 01 1278

Video Conferencing Room 01 173

Workshops 07 1400

Additional Workshops 01 900

Drawing Hall 02 270

Research lab 04 300

Computer Centre 03 1000

Library & Reading Room 02 200

Central Library 01 1532

HOD and Dean's offices 21 370

Faculty offices 187 1870

Baba Binod Singh Hostel 1 2014(4 storey)

Baba Baj Singh Hostel 1 1747(4 storey)

Baba Deep Singh Hostel 1 1056(4 storey)

Baba Aali Singh Hostel 1 3498(7storey)

Bibi Bhani Hostel 1 2085(4 storey)

Mata Sahib Kaur Hostel 1 1337(3 storey)

Guest House 1 441

Canteen 1 671

Medical Room 1

RESIDENTIAL FACILITIES -**Principal Residence 1 Independent House**

Type D flats 12 3BHK (Ground+1)

Type C flats 24 2BHK(Ground+2)

Type B flats 32 2BHK(Ground+1)

Type A flats 8 BHK(Ground+1)

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/college-virtual-tour/

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

Outdoor Games -The institute has state of the art playgrounds for various outdoor sports activities like Cricket, Football, Basketball, Volleybal ,Hockey and Lawn-tennis.Apart from the playgrounds we have well groomed Athletics Standard Track.

Indoor Games - The indoor games at our college provide facilities for Table-tennis, Badminton and other indoor games. Students can enjoy a game of Carrom, engage in a battle of minds by playing Chess.

Swimming Pool -There is indoor swimming pool in the campus of standard size meeting all the norms.Gymnasium and Yoga Centre - Well equipped Gymnasium is available within campus for students as well as faculty for regular exercise. To enrich the students and faculty with spiritual feeling there is separate Yoga Centre in the campus.

S. No Games Facility Available Area(in m2) Year of Establishment

OUTDOOR GAMES

- 1 Basketball(M/W) Sports Stadium 38x15 2004
- 2 Cricket Ground(M) Sports Stadium 137 2004
- 3 Volleyball Court(M/W) Sports Stadium 18X9 2004
- 4 Handball Ground Sports Stadium 40x20 2004
- 5 Football (M) Sports Stadium 110x75 2004
- 6 Hockey (M/W) Sports Stadium 91.4x55 2004
- 7 Kabaddi(M) Sports Stadium 13x10 2004
- 8 Lawn Tennis(M/W) Sports Stadium 23.77X10.97 2004
- 9 Athletics Standard Track Sports Stadium 400 m 2004

INDOOR GAMES

- 10 Table Tennis Gymnasium 14x7 2004

Boys Hostel(common room)

Girls Hostel(common room)

- 11 CarromBhai Gurdas Block NA 1997
- 12 Chess (M/W)Bhai Gurdas Block NA 1997
- 13 Badminton (M/W) Gymnasium 13.4X10 1997

GYMNASIUM and YOGA CENTRE

- 14 Gymnasium Fitness Centre 36.5x8.90 2008
- 15 Yoga Centre Fitness Centre 2008
- 16 Swimming Pool(M/W) Fitness Centre 25.6X17.5 2008

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/sports-achievements/

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

49

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

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

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

71.29

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

4.2 - Library as a Learning Resource

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

In anticipation of the impending shift towards digitization, the BBSBEC library fully automated its operations in 2007. It employs

the state-of-the-art Software for University Libraries, known as SOUL 3.0, developed by INFLIBNET in Ahmedabad. This software features a client-server architecture and a user-friendly interface that minimizes the need for extensive training.

The software encompasses several key modules:

1. Acquisition Module
2. Catalogue Module
3. Circulation Module
4. Administration Module
5. Serial Control Module
6. Online Public Access Catalogue (OPAC)

The Administration Module has been enhanced in the new version of SOUL 3.0, incorporating three additional submodules: User Management, System Parameters, and Masters.

Among these, the Circulation Module is particularly vital, as it facilitates a range of functions, including:

- Transaction processing of materials
- Book Bank Issue/Return
- Group Issue/Return
- Member login/logout capabilities
- Stock verification
- Inter Library Loan (ILL)

Managing serials is often one of the more challenging tasks within a library; however, the Serial Control Module effectively addresses this issue by efficiently tracking serials. This module is based on the KARDEX system.

Additionally, an Online Public Access Catalogue (WEBOPAC) has been established (<http://192.168.24.220/webopac>) to enhance access to library resources. The OPAC offers an advanced search capability

that requires only minimal information about the item. Users can search by providing one or two of the following criteria: author, title, corporate body, conference name, subject headings, keywords, class number, series name, or accession number. Furthermore, OPAC users have the option to export their search results in PDF, MS Excel, and MARCXML formats

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources A. Any 4 or more of the above

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

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

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

2.17

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

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

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

256

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

4.3 - IT Infrastructure**4.3.1 - Institution frequently updates its IT facilities including Wi-Fi**

A robust IT infrastructure is essential for the survival of any higher education institution, as it provides students with practical skills that enhance their employability. With this in mind, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, has consistently prioritized the regular enhancement of its comprehensive IT Infrastructure. In July 2023, the college had internet facilities with a bandwidth of 200 Mbps.

The college maintains a network of 937 desktop computers connected via wired and Wi-Fi internet. A dedicated IT technical support team of five members, led by Dr. Jatinder Singh Saini, oversees the maintenance of hardware, software, and network operations. This team is also responsible for installing and configuring computer systems, troubleshooting hardware and software issues, and managing the Computer Centre (CC) operations, the college network, and computer labs.

The college has an extensive campus-wide network connecting all major buildings, departments, faculty residences, and hostels. Built on an optical fiber backbone and Gigabit Ethernet technology, this network links computers across the campus. To further improve connectivity, around 250 wireless access points (802.11g) have been strategically installed in various locations. In year 2023-24, the college acquired new hardware to upgrade its IT infrastructure, including computers, application servers and network switches.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://bbsbec.edu.in/desktop-computers-and-network-components-detail/

4.3.2 - Number of Computers

937

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

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

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

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

71.29

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

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

In the year 2023-24, the following procedures were adopted for the maintenance of college infrastructure:

1. The college water system was subjected to intensive regulation

by the college pump operators in order to ensure the provision of safe drinking water. The TDS level of water was monitored periodically.

2. In order to preserve the natural environment of the college, skilled gardeners maintained college lawns, flowers and trees.
3. Various steps were taken to maintain the college Sewerage Treatment Plant (STP) for better waste management.
4. The College Electrical Maintenance Cell, which consists of various skilled personnel and is headed by the college XEN, undertook periodic maintenance drives to ensure sustainable power supply. The cell follows a comprehensive SOP for their operations.
5. Taking cognizance of the serious problem of pest control, the college authorities coordinated with the concerned municipal body for periodic fogging of the campus.
6. The college administration ensured strict adherence to the SOP on the subject of college transport/vehicles.
7. During the 2023-24 session, steps were also taken for the proper maintenance of all college hostels. These steps included white-washing, maintenance of RO water filters, re-evaluation of existing fire-fighting systems, service of CCTV cameras and the upkeep of sewerage systems.
8. Keeping the mental and physical well-being of the students in mind, the college dispensary organised three medical check-up camps.
9. There is laid down procedure for the energy consumption(College Energy policy attached).
10. To manage waste and e-waste in the campus the college has a detailed procedure which is reviewed every three year (College waste management policy attached).

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/videos-of-infrastructure/

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

408

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

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

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

403

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

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

A. All of the above

File Description	Documents
Link to Institutional website	https://bbsbec.edu.in/capability-enhancement-and-development-schemes/
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

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

1580

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

1580

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

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

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

64

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

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

5.2.2.1 - Number of outgoing student progression to higher education

14

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

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

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

7

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

10

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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

BBSBEC strongly believes that students are important stakeholders in the field of education and involving them into academic and administrative process is very crucial. BBSBEC has established a two

tier Student Council at each department level, consisting of SAC & SAdC. The committees of students are formed for looking after extracurricular activities and academic events throughout the year.

Role of Student Academic Council (SAC)

The various roles of student academic council are as follows:

1. Provide feedback and suggestions regarding the timetable and content of various subjects.
2. Obtain and provide students feedback on each subject delivery and quality of instructions
3. Bring to the notice of the chairperson any immediate problem being faced by the student.
4. Suggest any projects which could provide better understanding of subjects alongwith the industry requirements.

Role of Student Administrative Council (SAdC)

The various roles of student academic council are as follows:

1. Provide feedback and suggestions regarding the administrative issues in the academic complex and improvement of various facilities.
2. Bring to the notice of the chairperson any problem regarding administration being faced by the students.
3. Ensure passage and implementation of admin instructions issued by the faculty/ HOD/ Principal by multiple and fastest means (Whatsapp/SMS).

Apart from the Student Councils, there are some other professional bodies such as ISHRAE, IICand IEI in which students are playing an active role.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/5.3.2_2024.pdf
Upload any additional information	View File

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

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

10

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

5.4 - Alumni Engagement

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

BBSBEC ALUMNI ASSOCIATION has been registered as a Society under the Societies Registration Act 1860 on July 16, 2020. The association executive members meet on regular basis in the College, have interactions with the College Principal, HoDs, Deans, faculty and students. They discuss the plan to conduct the alumni activities and development of their alma mater. The alumni of the institution willingly contribute by promoting the institutional brand; providing mentorship to on-going students; facilitating internships, career opportunities, job placement for outgoing students and so on. The institution alumni have deep love and regard for the institute and hence are always passionate to extend all sort of contribution for growth of institute, staff and students. Alumni with their strong linkage across industry verticals play an important role in student internships mock interviews and placements. Realizing the importance of Social media in this high-tech age, BBSBEC Alumni cell has created its own LinkedIn and Facebook pages.

[LinkedIn.com:

https://www.linkedin.com/home?trk=nav_responsive_tab_home]

And college LinkedIn page:

<https://www.linkedin.com/school/15098533/admin/>

[facebook id BBSBEC Alumni page :

<https://www.facebook.com/alumnicell.bbsbec>]

And college facebook page:

<https://www.facebook.com/theofficialBBSBEC>

[facebook page: Baba Banda Singh Bahadur Engineering College

Alumni Page]

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

5.4.2 - Alumni contribution during the year D. 1 Lakhs - 3Lakhs
(INR in Lakhs)

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The College aims to establish itself as a leading center of education, dedicated to promoting academic excellence and cultivating socially responsible, collaborative leaders. Its governance reflects this mission by upholding high morals, values, and inclusivity for all staff and students, regardless of background.

Aligned with its Strategic Plan, medium and long-term matters are typically discussed in Higher Forum (HF) meetings before being submitted to the Secretary of the Trust for review by the Board of Governors (BOG) or College Trust. The BOG meets biannually to align its decisions with the Strategic Plan, with meeting minutes shared with the Principal for implementation through action plans monitored by the IQAC.

Operational matters are managed by the Principal in consultation

with the HF. Routine affairs are addressed in regular meetings, while each department holds Extended Forum (EF) sessions periodically. Issues and feedback from EF meetings are reported to the HF by department heads. After thorough discussion, the Principal, in consultation with HF members, either resolves the issues or refers them to the Management for decisions. All actions are guided by input from relevant stakeholders to ensure transparency and alignment with the College's strategic objectives.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AQAR_6.1.1_L2023-24.pdf
Upload any additional information	View File

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

The Management encourages active staff participation in various committees, including IQAC, Clubs/Professional Societies, Academic Committees, and Grievance Redressal Committees. This approach ensures quality assurance, continuous enhancement, and holistic development of college activities. Operational matters are addressed through decentralized forums, with decisions guided by participative management principles.

A key annual activity is the preparation of the college budget, conducted systematically. Each January or February, the Principal requests Higher Forum (HF) members to gather and submit budget proposals for the upcoming fiscal year. HF members collaborate with staff in their respective departments/sections to identify budgetary needs. Lab/club/cell in-charges work with relevant staff to propose financial requirements for the next fiscal year.

HF members consolidate and discuss these proposals within their respective departments/sections. These consolidated budgetary requirements are further deliberated in HF meetings. The Principal then compiles the overall budget for the college and presents it to the Board of Governors (BOG) or College Trust through the Secretary (Trust) for approval. The BOG or College Trust carefully reviews and finalizes the annual budget during their meeting, ensuring alignment with the college's strategic and operational priorities.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AOAR_6.1.2_L2023-24-Budgeting2024-25.pdf
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

In response to admission trends, the college formulated its Strategic Plan (2020-2025) during 2019-20, focusing on key areas essential for the institution's sustained growth and development.

The plan identified several strategic priorities, including Academic Processes, Student Development, Branding and Marketing, Industry-Institute Interaction, Human Resources, Infrastructure, Governance, and Relationship Building. A significant aspect of the plan addressed the need to enhance student employability. Recognizing the importance of expanding skills beyond technical knowledge, the plan emphasized training in soft skills, quantitative aptitude, and general knowledge.

To promote multidisciplinary learning, the introduction of major and minor degree options in the university curriculum became a central focus. Faculty members from the college played an active role in the university's Board of Studies, advocating for these curricular changes. Consequently, students in all B.Tech. branches can now pursue a minor degree alongside their primary degree program. This initiative offers students a broader educational experience, equipping them with diverse skills to meet the demands of a competitive job market.

This approach aligns with the college's strategic vision to empower students with a comprehensive skill set, ensuring enhanced employability and adaptability in their professional careers.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://bbsbec.edu.in/wp-content/uploads/2019/11/Strategic-Plan-Deployment-2020-25.pdf
Upload any additional information	View File

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

The Principal plays a key leadership role in the governance of the college, guided by the Board of Governors (BOG). They propose new initiatives aligned with the Strategic Plan to the top management and oversee the implementation of policies through collaboration with faculty and staff across all levels, facilitated by the Higher Forum.

Deans are instrumental in managing diverse aspects of the college, including academics, examinations, research, training and placement, industrial relations, and co-curricular activities. They work closely with departmental faculty to ensure effective execution of plans and seamless coordination as needed.

The Professor-in-Charge of Administration oversees key operational areas such as medical facilities, security, transportation, the college store, and establishment-related matters. Hostel management is entrusted to senior wardens, who, along with assistant wardens and caretakers, develop and enforce hostel policies, rules, and regulations to ensure smooth operations.

The estate office handles the management and maintenance of construction projects and general upkeep of the campus. Additionally, various committees operate based on Standard Operating Procedures (SOPs) and established guidelines, ensuring efficient execution of statutory and other designated responsibilities, contributing to the overall smooth functioning of the institution.

File Description	Documents
Paste link for additional information	https://bbsbec.edugrievance.com/
Link to Organogram of the institution webpage	https://bbsbec.edu.in/wp-content/uploads/2023/05/AQAR_6.2.2_WBSL_Organogram2021-22.pdf
Upload any additional information	View File

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

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

The institution has established a comprehensive range of welfare measures for both teaching and non-teaching staff, highlighting its dedication to their well-being. These initiatives aim to create a supportive and conducive working environment, fostering personal and professional growth.

The welfare measures provided to staff include:

- Group Health Insurance (GIS)
- On-Campus Accommodation
- Computing Facilities for All Faculty Members
- Bus Service

- Crèche
- Recreational Facilities for Staff and Their Families:
- Swimming Pool
- Gymnasium
- Sports Facilities
- Rest/Guest House
- Dispensary Services
- Provident Fund as per approved norms
- Various leave options, including Study Leave, Special Leave, Medical Leave, Maternity Leave, and others
- Gratuity in accordance with government regulations
- Independent Offices/Cabins for All Faculty Members
- Provision for Advances in Cases of Critical Medical Treatment

These measures collectively reflect the institution's commitment to the holistic well-being of its employees, ensuring a supportive and enriching workplace environment.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/typography/
Upload any additional information	View File

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

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

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

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

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

5

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

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

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

97

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

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

BBSBEC's Management, driven by its commitment to education as a facet of social responsibility, recognizes the crucial role of human resources and provides both moral and financial support to its staff. To ensure continuous development and accountability, the institution has implemented a comprehensive annual appraisal system for all employees.

This structured appraisal system is designed to motivate staff members, encouraging active engagement with set criteria while fostering personal and professional growth. Performance evaluations are conducted before the annual increments for regular employees and contract renewals for contractual staff.

The appraisal process is divided into two distinct systems: one specifically for faculty members and another for non-teaching staff. For Class III and Class IV employees, designated criteria guide the appraisal process, with the reporting officer completing the performance evaluation forms.

In all cases, the Principal oversees the final assessment, ensuring a fair and impartial evaluation process. This approach reflects BBSBEC's dedication to creating a supportive, growth-oriented workplace. By integrating these practices, the Management upholds its values of social responsibility in education while fostering a culture of accountability and continuous improvement among staff members.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AOAR_6.3.5_L2023-24.pdf
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

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

The organization has established a robust auditing framework involving both internal and external auditors to ensure financial accountability and transparency. Internal audits are conducted periodically by individuals appointed by the Principal, with their reports completed prior to the external audit. The external audit typically takes place after the completion of all accounting procedures.

During the Internal Audit, a thorough examination of accounts is conducted, including securing confirmations for credit balances. Any discrepancies related to payments, TDS compliance, or statutory requirements are identified, with supporting documentary evidence collected.

Following the Internal Audit, Statutory Auditors are engaged to perform the External Audit, which usually occurs after June 30th of the subsequent year. The auditors provide a detailed report to the management, outlining their findings. The audit results for both the institution and the trust are consolidated, and annual returns are submitted to the Income Tax Authorities.

Additionally, when funds are received for specific activities, an audited utilization certificate is prepared and submitted to the respective funding agency. This practice reinforces the organization's commitment to accountability and ensures that funds are utilized effectively and transparently. The most recent audit report further validates the organization's adherence to financial best practices.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/balance-sheets/
Upload any additional information	View File

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

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

50.7

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

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

As a self-financing institution, the college's primary revenue source is student fees, with admissions conducted in accordance with approved intake levels and the norms set by the Punjab Government. In addition to tuition fees, the college generates income through research and travel grants, as well as funding for organizing curricular and co-curricular activities.

The institution further supplements its revenue by collaborating with external entities such as the National Testing Agency (NTA), local government departments, PCERT, and Chandigarh, allowing them to utilize its infrastructure for various purposes. This strategic approach not only boosts financial resources but also ensures efficient utilization of facilities.

Resource allocation within the college is meticulously planned to ensure optimal usage. With much of the necessary infrastructure already in place, significant expenditures are directed towards staff salaries, utility bills, infrastructure maintenance, and student development initiatives, including personality enhancement

programs, training and placement activities, cultural and sports events, and project work. Additional investments support student scholarships, faculty development, consumables, statutory obligations, waste management, and green initiatives.

This strategic prioritization enables the college to manage its resources effectively, enhancing the student learning experience, fostering faculty growth, maintaining a sustainable campus, and adhering to statutory and environmental responsibilities.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/balance-sheets/
Upload any additional information	View File

6.5 - Internal Quality Assurance System

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

1. Quality Audits:

The IQAC has institutionalized quality audits, including internal and external at various levels to ensure continuous improvement in the institution's functioning. The following audits are mainly conducted periodically to assess the effectiveness of various processes:

- Academics Audit
- Administrative Audit
- Accounts and Finance Audit
- Green Audit
- Energy Audit
- e-waste Audit etc

IQAC's efforts have resulted in the systematic documentation of findings and actionable insights from these audits. These outcomes are shared with stakeholders to foster accountability and transparency. Implementation of recommendations has led to improved academic performance, streamlined administrative processes, and enhanced student satisfaction, contributing to the institution's overall quality assurance framework.

1. Alumni Engagement:

IQAC has played a pivotal role in institutionalizing structured alumni engagement practices. An active Alumni Association already exists to foster collaboration between the institution and its alumni. Regular alumni meet-ups, webinars, and mentorship programs are organized to leverage their expertise for career guidance and networking opportunities for students.

The IQAC aims to create an alumni portal to maintain a robust database and enable seamless interaction. Alumni contributions, such as guest lectures, internships, and industry collaborations, have significantly enriched academic and professional development. This initiative has strengthened alumni relations, boosted institutional branding, and created a collaborative ecosystem for lifelong learning and support.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AOAR_6.5.1_UL-2023-24.pdf
Upload any additional information	No File Uploaded

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. Add on courses:

The institution, under the guidance of the IQAC, emphasized on structured add-on courses to enhance students' employability and skills. These courses have been designed based on feedback from stakeholders, including industry experts, alumni, and students. Programs like "IIT Bombay Spoken Tutorial", "Introduction to Programming with Python", "Design Thinking and Creativity for Innovation", "Life Skill Development" etc. have been conducted. The courses were integrated with the existing curriculum, offered during spare time, weekends or semester breaks, and delivered by subject matter experts.

19 add-on courses were conducted during the year, which benefitted 932 students in various offered areas of interest. Regular reviews are conducted by the IQAC to evaluate the effectiveness of these courses, ensuring alignment with emerging trends and industry demands. The student participation and engagement has increased significantly.

1. Patents:

In line with its mission to foster innovation, the institution revamped its research and innovation ecosystem with IQAC's support. Dedicated workshops on Intellectual Property Rights (IPR) and patent filing were conducted to raise awareness among faculty and students.

The IQAC monitored the outcomes, resulting in a rise in patent filings over the past year. Faculty and students collaboratively developed innovative projects, many of which were transformed into patents. For example, a student-led project on sustainable energy solutions earned a patent and attracted industry partnerships. This initiative not only strengthened the institution's research culture but also motivated other departments to pursue similar projects that may result into innovations.

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

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

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://bbsbec.edu.in/naac/AOAR_6.5.1_UL-2023-24.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

One of the objectives of this institution is to promote education that would be sensitive to the needs of the various sections of society with special emphasis on gender equality and gender sensitivity.

College makes efforts to maintain gender balance at all levels and amongst faculty members also. Some of the departments are also headed by Women professors. Female teaching and non-teaching faculty are also reasonable in number as compared to other gender. The women staff members are given maternity leave as per the regulations. They are provided with full salary during the said leave period to encourage their service to the institution.

The institution aims to groom students to be self-reliant, specialists in their chosen discipline, continuous learners and effective communicators, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security. Students of both the genders are given equal opportunities to grow and develop into able and responsible citizens of the future. The institution encourages the female students to actively take part in academic, research and sports also. Girl students can take part in all intra and inter college co-curricular events. Sports activities for girls range from table tennis, basketball, football, badminton and so on. Among the cultural activities they participate in dance, singing, music events, debate, public speaking, quiz and many more.

Every year there is a huge celebration of women's day and inspiring women personalities are invited to share their life experiences.

File Description	Documents
Annual gender sensitization action plan	https://bbsbec.edu.in/gender-sensitisation/
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://bbsbec.edu.in/wp-content/uploads/2024/02/7.1.1geotagged-photos.pdf

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

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

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

Solid Waste Management

After collecting the waste from all around the college, waste segregation has been done into dry waste and wet waste. Dry waste includes paper, cardboard, glass tin cans etc. Wet waste on the other hand, refers to organic waste such as vegetable seeds, left-over food etc. Separating our waste is essential as the amount of waste being generated today causes immense problems. Household waste are separated daily into different bags for the different categories of waste such as wet and dry waste, which are disposed off separately.

Liquid Waste Management

A sewage treatment plant is operational near the swimming pool since May, 2015 and the capacity of the plant is 700m³/day. Sewage Treatment Plant is well-maintained by the College and functions efficiently. The Plant uses natural techniques to recycle water, making it eco-friendly. The purified water is used for irrigation and the excess is fed to a nearby water body.

E-Waste Management

The institute follows the E-Waste management policy of the state under the Environment (Protection) Act, 1986. The audit was conducted to check physical implementations and document evidence.

Waste Recycling System

- Waste recycling is a key component of modern waste reduction and is the third component of the "Reduce, Reuse, and Recycle" waste hierarchy. It promotes environmental sustainability by removing raw material input and redirecting waste output in the economic system. Any waste management system depends not only on technical factors and availability, but also the motivation of the users to participate in the process.

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

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

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

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

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage

A. Any 4 or all of the above

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

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	View File
Any other relevant information	View File

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

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, has established itself as a hub of holistic learning by organizing a variety of events and initiatives that embrace diversity, promote academic excellence, and nurture the overall growth of its students.

The college warmly welcomed its new students with a fun-filled and exciting Fresher's Party, a celebration fostering unity among students from diverse religious, caste, and cultural backgrounds.

The Department of Electrical Engineering's Electro Infinity Club celebrates the Fateh Ambush Cup 2023, encouraging active participation in academic, cultural, and athletic events.

The college proudly celebrated the achievements of its IKGPTU toppers and winners of the Youth Festival organized by IKGPTU Jalandhar. These recognitions reflect the institution's emphasis on excellence in both academics and extracurricular activities.

To equip students with valuable skills and insights, the college organized various professional development events, including:

- An Expert Talk on career prospects in the Indian Air Force and overcoming personality barriers to achieve professional excellence.
- An industrial visit to Ganguwal Power House (BBMB, Rupnagar) on March 15, 2024, for B.Tech 6th Semester students, offering practical exposure to power generation processes.

On October 25, 2023, the college hosted an inspiring session by IPS officer Mr. Madhav Upadhyay on "Building a Career in Civil Services," providing final and pre-final year students with valuable guidance.

The college welcomed over 500 students and 25 teachers from five government schools, offering insights into higher education opportunities, career paths, and academic excellence.

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

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

Baba Banda Singh Bahadur Engineering College actively educates its students and employees about constitutional values, rights, duties, and responsibilities, shaping them into responsible citizens.

In addition to providing quality technical education, the institution organizes various programs and activities to instill moral values and social responsibility. These initiatives aim to raise awareness of the Indian Constitution and inspire both students and staff to contribute meaningfully to society.

Moreover, the affiliated university curriculum mandates courses on Professional Ethics, Human Values, and the Constitution of India, ensuring that students develop a strong foundation in constitutional principles. Through these efforts, the institution cultivates a sense of responsibility and inspires its community to uphold and promote these values in society.

The college encourages participation in events celebrating constitutional and cultural significance, such as Teej,

International Women's Day and the Birth Anniversary of Baba Banda Singh Bahadur. It also hosts motivational webinars, seminars, and expert talks on topics like "Problem Solving and Idea Generation," "Body Language of Winners and Interview Skills," and "Jaito da Morcha." Practical workshops, including those on Excel Essentials and Entrepreneurship, along with short-term courses such as "Employability Skills for Industry 4.0" and Entrepreneurship, further equip participants with essential skills while fostering a commitment to moral and constitutional values.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://bbsbec.edu.in/outreach/sensitization/
Any other relevant information	https://bbsbec.edu.in/outreach/sensitization/

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

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

This summary is of the vibrant celebrations and events hosted by Baba Banda Singh Bahadur Engineering College, showcasing its commitment to a well-rounded educational experience.

The college's celebration of National Sports Day is a wonderful occasion, honoring Major Dhyan Chand, one of India's finest hockey players, whose birthday on August 29 is recognized as National Sports Day.

In addition, the celebration of ISHRAE Student Day acknowledges the contributions of students in the fields engineering disciplines.

On September 5, 2023, at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, students honored their teachers on Teacher's Day. They expressed gratitude by presenting gifts, cards, and cakes, and organizing special events to recognize their dedication and contribution to education. This day highlights the crucial role teacher's play in shaping the future of students.

Engineer's Day is another significant event, celebrates on September 15 to honor the birth anniversary of Sir Mokshagundam Visvesvaraya, a renowned engineer and statesman. The day recognizes the invaluable contributions engineers have made to society's advancement and inspires future generations in the field of engineering.

The college also celebrated International Women's Day on March 6, 2024, at Baba Banda Singh Bahadur Engineering College, highlighting the achievements and contributions of women across various sectors and promoting gender equality.

Additionally, the college observed International Forest Day, emphasizing the importance of preserving forests and promoting environmental awareness among students.

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

7.2 - Best Practices

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

PRACTICE 1: MENTOR-MENTEE SYSTEM

Objectives of the Practice:

The Mentor-Mentee System is designed to provide students with a dedicated support system throughout their academic journey. The main objectives are to foster a strong, trusting relationship between the mentor and mentee, guide mentees in achieving personal and academic goals, and develop critical life skills. The system encourages reflective thinking, enhances communication, and provides tailored advice on academics, career choices, and personal development. By offering consistent guidance and emotional support, mentors help mentees build confidence, navigate challenges, and enhance their holistic development. This practice is rooted in the principles of trust, individualized attention, and sustained interaction.

PRACTICE 2: PERSONALITY DEVELOPMENT PROGRAM (PDP)

Objectives of the Practice:

The Personality Development Program (PDP) aims to enhance the personal, social, and professional growth of students by improving their communication skills, leadership qualities, and interpersonal abilities. The program focuses on the development of both intra-personal and inter-personal skills, helping students understand themselves better, identify their strengths and weaknesses, and cultivate a positive attitude toward life. The main objectives include improving self-esteem, building confidence, enhancing public speaking and presentation skills, and preparing students for leadership roles. Ultimately, PDP strives to create well-rounded individuals capable of succeeding in their personal and professional lives.

File Description	Documents
Best practices in the Institutional website	https://bbsbec.edu.in/best-institutional-practices/
Any other relevant information	https://bbsbec.edu.in/naac/7.2.1_attendance_24.pdf

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

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, demonstrates its commitment to providing financial assistance to students through various scholarships and fee waivers. During 2023-24, under government schemes, 304 students benefited from the SC/ST Scholarship with an approximate amount of Rs. 2.34 crore. The Merit-Cum-Means Scholarship supported 7 students with Rs. 2.10 lakh, while 48 J&K residents received Rs. 48 lakh under the PMSSS Student Scheme. Additionally, 44 students availed of the Fee Waiver Scheme, amounting to Rs. 26.40 lakh.

The college also prioritized scholarships funded by non-government entities and institutional initiatives. A notable 282 students were supported under B.Voc, BBA/BCA, and M.Tech/MBA programs with Rs. 21.15 lakh. Merit-Based Scholarships aided 39 students with Rs. 4.40 lakh, and schemes like the Fatherless Scholarship, Sikh Religion Examination, and Helping Hand Scholarship collectively benefited numerous students with amounts ranging from Rs. 20,000 to Rs. 70,000.

In addition to this, BBSBEC itself offers many additional scholarships as mentioned in the attached file. Through these initiatives, the institution ensures inclusivity and financial support, making education accessible for economically weaker sections, minority groups, and meritorious students. The college's efforts reflect its dedication to fostering equal opportunities and academic excellence.

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

Baba Banda Singh Bahadur Engineering College is affiliated to IKGPTU, Jalandhar and follows the curriculum prescribed by the University. The University academic calendar is discussed in Higher Forum Meetings and then college academic calendar is prepared by Dean Academics and Dean Examination. The Department meetings are conducted in each department for effective planning and implementation of curriculum. The points discussed in department meetings are:

- dissemination of college academic calendar
- allocation of subjects among faculty
- design of time table by the time-table committee of each department

Each faculty member maintains continuous evaluation record of students, prepares lesson plan, and course files for effective course delivery. The Departments plan the Seminars, Conferences, Workshops, Guest lectures and Industrial visits to improve the teaching learning process. The Institution provides ample books and other teaching and reference materials like journals, magazines, e-journals and softwares and encourages faculty members to attend workshops and present papers in seminars conducted by the affiliating and other Universities for acquiring necessary skills for effective delivery of the curriculum. The adherence to curriculum delivery plan is reviewed by IQAC.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://bbsbec.edu.in/naac/1.1.1_2024.pdf

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

The academic calendar of the college has been prepared taking

into consideration the declared calendar of the University, which is discussed in Higher Forum Meetings. Then college academic calendar is designed by Dean Academics and Dean Examination, which is also discussed in Higher Forum Meetings and reported to IQAC. The college academic calendar is disseminated to faculty through Heads of department. The new session is commenced and mid semester tests (MSTs) are conducted as per academic calendar schedule. Date sheets of all MSTs are disseminated to faculty through emails via Deputy Controller Examinations and same is sent to students in class whatsapp groups by the faculty. In case the dates of mid semester tests are required to be re-scheduled due to any un-avoidable circumstances, same is intimated to faculty by Deputy Controller Examinations/Principal and further information is conveyed to the students by faculty.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://bbsbec.edu.in/naac/1.1.2_2024.pdf

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

A. All of the above

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

1.2 - Academic Flexibility

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

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

11

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

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

22

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

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

1234

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

1.3 - Curriculum Enrichment

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

•All the departments in the institute have courses in curriculum that deals with major issues related to Gender, Environment and

Sustainability, Human values and Professional ethics.

- To inculcate human values and moral ethics in students a subject on Human Values is taught at UG level of college.
- There are full credit courses which are compulsory for UG students to provide awareness about the cross-cutting issues like gender, environment sustainability, human values and professional ethics these courses are included in IKGPTU syllabus and conducted by various departments every semester as part of curriculum.

The list of subjects is as attached:

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

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

48

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

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

1806	
File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File
1.4 - Feedback System	
1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	A. All of the above
File Description	Documents
URL for stakeholder feedback report	https://bbsbec.edu.in/naac/1.4.1_feedback-report2023-24.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File
1.4.2 - Feedback process of the Institution may be classified as follows	A. Feedback collected, analyzed and action taken and feedback available on website
File Description	Documents
Upload any additional information	View File
URL for feedback report	https://bbsbec.edu.in/curriculumfeedback/
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	

477

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

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

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

127

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

2.2 - Catering to Student Diversity

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

The institution assesses the students' learning levels at the commencement of classes. Students enrolled in various disciplines are identified as slow and advanced learners based on their +2 marks and MST tests conducted by each department. Faculty members and various committees regularly review academic progress and counsel students to improve their performance to ensure their academic growth.

Strategies adopted for slow learners

1. Extra classes are organized regularly
2. Students are enrolled in various professional /creative clubs/sports events.
3. In each department, the activities are conducted by different clubs to enhance the skills of students
4. Alumni webinars are organized under Alumni interaction programs.
5. The IIT spoken tutorial test is conducted online.
6. The simple and standard lecture notes/course materials are provided to the students

Strategies for advanced learners

In addition to the mentioned activities, the advanced learners are further encouraged to:

1. enroll in MOOC Courses through Swayam
2. participate in various competitions such as debates, group discussions, problem-solving, decision-making exercises, and quiz programs.
3. take part in extra-curricular activities, exhibitions, and cultural competitions.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/2.2.1_AS1_2024.pdf
Upload any additional information	View File

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

Number of Students	Number of Teachers
1788	146

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

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

As per the guidelines of AICTE, the College has adopted the student-centric approach. The methods under this approach include Lecture Method, Interactive Method, Project-based Learning, Computer-assisted Learning, Experiential Learning etc. The teaching-learning activities are made effective through illustration and special lectures. The faculty members make learning interactive by motivating the students to participate in group discussions, subject quiz and organize various technical and non-technical activities. This in turn enhances the technical skills and personality development of the students. The college follows the following student-centric methods:

- ICT Enabled Teaching
- Event Organization
- Industry Visits
- Sessions by Alumni
- Workshops
- Value Added Certifications
- Participation in Student Chapter Activities
- Assignments and Tutorials
- Project-Based Learning
- Research papers and Dissertation work

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

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

The ICT tools are being used by the College teachers to support, enhance, and optimize the delivery of education. To make the students familiar with latest technologies, the innovative techniques of teaching are combined with the traditional mode. The web based ICT tools such as Google meet, ZOOM etc can be used to connect the students, educators, scholars and researchers from all over the world. These platforms are to communicate, provide material, conduct tests, upload assignments, and address queries. Furthermore, the teaching of various courses through online platforms such as Swayam courses, Couresera, edX etc. in higher education provides independent learning to the students. The educational materials can be shared country-wide among many distance learners. Students can use their laptops or mobile phones to gain quick access to the information which is available and accessible any time and from any place.

The different ICT tools used by the faculty/staff and the students are as below:

1. Projectors- available in different classrooms/labs
2. Desktop and Laptops- with faculty/staff and laboratories
3. Smart Board- Two smart boards installed in two departments
4. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom
5. MOOC Platform (NPTEL, Coursera, SAP, Udemy, edX etc)
6. Digital Library resources (DEL NET, e-journals, eshodh sindhu etc)

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

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

2.3.3.1 - Number of mentors

93

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

2.4 - Teacher Profile and Quality

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

146

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

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

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

51

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

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

2.4.3.1 - Total experience of full-time teachers

1977

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

2.5 - Evaluation Process and Reforms

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

- The college follows a structured process for conducting mid-semester and end-semester examinations. Out of 100 marks in each subject, 40 marks are allotted for the internal assessment and 60 marks for the end semester examinations.
- At the beginning of the semester, internal mid-semester examination schedule is shared with both students and faculty members through the academic calendar. The three Mid Semester Tests (MSTs) are conducted in one semester. Each MST is of 24 marks. After the tests, the marks obtained by the students are displayed on the notice board and their performance and doubts are discussed in the classes. The two best scores from the MSTs are averaged to determine the internal assessment. The MSTs are designed to align with Course Outcomes (COs), Performance Outcomes (POs), and Performance Indicators (PIs), using the Bloom Taxonomy as per the guidelines of AICTE. Further, 06 marks are given for the attendance and 10 marks are kept for assignments and quiz.
- External theory examinations worth 60 marks are conducted at the end of each semester. The College promptly shares the schedule (date sheet) for these exams with both faculty and students once it is announced by the university.
- Practical evaluations take place during laboratory sessions, with internal examinations carrying 30 marks and external practical exams carrying 20 marks.

File Description	Documents
Any additional information	View File
Link for additional information	https://bbsbec.edu.in/notice-board/

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

- If students have any grievances with their MST marks, they can discuss them with their respective teachers, who rectify the errors on the spot. The marks obtained by students in the MSTs are displayed on the department notice board.
- For any queries regarding the internal examination marks and end semester examination marks, such as corrections in subject marks or pending results, students can approach the Deputy Controller of Examinations via email at dcoe@bbsbec.ac.in. The college examination branch then forwards the concerns to the university and resolves the

problems at the earliest.

- If a student wishes to apply for re-evaluation, reappearing in exams, or challenged evaluation, they must submit an application and pay the necessary processing fee to the university. If required, the student can also obtain a copy of the scanned answer sheet through their login. The university has its own procedure for addressing grievances, which is communicated to the students.

File Description	Documents
Any additional information	View File
Link for additional information	https://bbsbec.edu.in/student-grievance-redressal-committee-2/

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.

Programme outcomes, and course outcomes for all Programme offered by the institution are stated and displayed on the college website.

Mechanism of communication of POs, PSOs and COs to the stakeholders

- Display on the college website under each Department
- Displayed on the boards in each department
- Displayed in Class rooms and labs
- CO's are mentioned on each Mid-Semester Examination test for each subject
- Apart from this, POs and PSOs and COs are disseminated to all stakeholders of the program through the Student Handbook

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://bbsbec.edu.in/po-and-peos/
Upload COs for all Programmes (exemplars from Glossary)	View File

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

Step 1: Mapping of questions in the MSTs is done with COs of the subject.

Step 2: The excel sheet for calculating the attainment is prepared for every subject. The MST marks, assignment and tutorials sheet marks are filled in the respective excel sheets. The number of students above and below average (N1, N2) is obtained. The average marks of each question are also calculated. 100% achievement is considered for the students scoring above and equal to average marks and 50% achievement is considered for the students below average marks.

Step 3: Further the mapping of assignments and tutorials with the course outcomes is carried out. Following the same procedure mentioned in step 2, the final attainment of assignments and tutorials is obtained.

Step 4: External end semester university examination results are taken for each subject. The grades/marks are filled in the prepared format in the excel sheet. Again the average of the marks is calculated and the university attainment is evaluated.

Step 5: To obtain the final attainment, 40% weightage is given to the internal examinations, 30% weightage is given to MSTs, 5% weightage is given to assignments and 5% weightage is given to tutorials and 60% weightage is given to university examination.

Step 6: Applying the formula in the excel sheet the final attainment of COs is calculated. The mapping of POs with CO is done and the mapping of PSOs with COs is done and further the final attainment of POs and PSOs from COs is calculated. The required results are automatically generated.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://bbsbec.edu.in/naac/2.6.2_Attainment_Calculation_Method_2024.pdf

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

450

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://bbsbec.edu.in/naac/2.6.3_2024.pdf

2.7 - Student Satisfaction Survey

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

https://bbsbec.edu.in/naac/2.7_SSS2023-24.pdf

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)

0

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
List of endowments / projects with details of grants(Data Template)	No File Uploaded

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

14

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

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

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

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

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

Baba Banda Singh Bahadur Engineering College and on these lines the college has a vibrant ecosystem in the form of active

Incubation Center through which the students and faculty of the college are motivated to bring in innovative ideas for resolution of any practical problem. The state-of-the-art, technologically advanced research facility has been created in the form of exclusive RESEARCH AND INNOVATION CENTRE.

The Research and Innovation Centre was established on 19 December 2015. An MoU has been signed with a consulting agency through which they assist in doing the prior research for the project. The inventor fills a Patent Information Extraction (PIE) form and the PIE form is then evaluated by the consulting agency. If the new invention is patentable then the patent is filed. After the initial filing then the full examination of the patent is done. The institute bears all the expenses, for patent filing in India and subsequent prosecution, grant and maintenance. 9 patents of our faculty members have granted in the year 2023.

As per the norms of MoE's Innovation Cell (MIC), Government of India, the college has established an Institution's Innovation Council (IIC) and the Innovation and Entrepreneurship Development Cell (IEDC) to promote the culture of innovation and entrepreneurship among students. The objective of this council is to systematically foster the culture of innovation and Start-up Ecosystem in education institutions. BBSBEC-IIC organizes various Innovation, IPR workshops/ seminars/ interactions with entrepreneurs, investors, and professionals throughout the academic year.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/research/research-and-innovation-center/

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

7

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

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

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

2

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

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

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

12

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

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

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers

in national/ international conference proceedings year wise during year

12

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

3.4 - Extension Activities

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

There are many extension activities carried out on various social issues for the holistic development of every individual as well as for the betterment of the society . Numerous activities , workshops as well as seminars such as job opportunities in Project Management , chess and carom competitions , Rangoli , Poster making events , seminars on employer's need , quiz on Republic day celebrations , talks on problem solving and idea generation as well as workshop on Mental health awareness has been organized through out the year to develop the sense of social responsibility service .

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/extension-activities/
Upload any additional information	View File

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

1

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

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

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

17

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

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

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

2057

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

3.5 - Collaboration	
3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year	
3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year	
337	
File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File
3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year	
3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year	
9	
File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File
INFRASTRUCTURE AND LEARNING RESOURCES	
4.1 - Physical Facilities	
4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.	
The campus is spread over an area of 74.5 acres comprising high class buildings , classrooms with proper ventilation, well furnished laboratories, smart classrooms and Computer centre .	

The institution has state of the art infrastructure as under:

Facility Total Number Total Area in Sq.m

Class Rooms 56 4260 (approx.)

Tutorial Room UG 23 800 (approx.)

Tutorial Room PG 13 400 (approx.)

Labs 88 4400 (approx.)

Seminar Halls 5 850 (approx.)

Smart Class Rooms/seminar halls 49 3640 (approx.)

Auditorium 01 1278

Video Conferencing Room 01 173

Workshops 07 1400

Additional Workshops 01 900

Drawing Hall 02 270

Research lab 04 300

Computer Centre 03 1000

Library & Reading Room 02 200

Central Library 01 1532

HOD and Dean's offices 21 370

Faculty offices 187 1870

Baba Binod Singh Hostel 1 2014(4 storey)

Baba Baj Singh Hostel 1 1747(4 storey)

Baba Deep Singh Hostel 1 1056(4 storey)

Baba Aali Singh Hostel 1 3498(7storey)

Bibi Bhani Hostel 1 2085(4 storey)

Mata Sahib Kaur Hostel 1 1337(3 storey)

Guest House 1 441

Canteen 1 671

Medical Room 1

RESIDENTIAL FACILITIES -

Principal Residence 1 Independent House

Type D flats 12 3BHK (Ground+1)

Type C flats 24 2BHK(Ground+2)

Type B flats 32 2BHK(Ground+1)

Type A flats 8 BHK(Ground+1)

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/college-virtual-tour/

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

Outdoor Games -The institute has state of the art playgrounds for various outdoor sports activities like Cricket, Football, Basketball, Volleybal ,Hockey and Lawn-tennis.Apart from the playgrounds we have well groomed Athletics Standard Track.

Indoor Games - The indoor games at our college provide facilities for Table-tennis, Badminton and other indoor games. Students can enjoy a game of Carrom, engage in a battle of minds by playing

Chess.

Swimming Pool -There is indoor swimming pool in the campus of standard size meeting all the norms.Gymnasium and Yoga Centre - Well equipped Gymnasium is available within campus for students as well as faculty for regular exercise. To enrich the students and faculty with spiritual feeling there is separate Yoga Centre in the campus.

S. No Games Facility Available Area(in m²) Year of Establishment

OUTDOOR GAMES

- 1 Basketball(M/W) Sports Stadium 38x15 2004
- 2 Cricket Ground(M) Sports Stadium 137 2004
- 3 Volleyball Court(M/W) Sports Stadium 18X9 2004
- 4 Handball Ground Sports Stadium 40x20 2004
- 5 Football (M) Sports Stadium 110x75 2004
- 6 Hockey (M/W) Sports Stadium 91.4x55 2004
- 7 Kabaddi(M) Sports Stadium 13x10 2004
- 8 Lawn Tennis(M/W) Sports Stadium 23.77X10.97 2004
- 9 Athletics Standard Track Sports Stadium 400 m 2004

INDOOR GAMES

- 10 Table Tennis Gymnasium 14x7 2004
- Boys Hostel(common room)
- Girls Hostel(common room)
- 11 Carrom Bhai Gurdas Block NA 1997
- 12 Chess (M/W) Bhai Gurdas Block NA 1997

13 Badminton (M/W) Gymnasium 13.4X10 1997

GYMNASIUM and YOGA CENTRE

14 Gymnasium Fitness Centre 36.5x8.90 2008

15 Yoga Centre Fitness Centre 2008

16 Swimming Pool(M/W) Fitness Centre 25.6X17.5 2008

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/sports-achievements/

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

49

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

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

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

71.29

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

4.2 - Library as a Learning Resource

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

In anticipation of the impending shift towards digitization, the BBSBEC library fully automated its operations in 2007. It employs the state-of-the-art Software for University Libraries, known as SOUL 3.0, developed by INFLIBNET in Ahmedabad. This software features a client-server architecture and a user-friendly interface that minimizes the need for extensive training.

The software encompasses several key modules:

1. Acquisition Module
2. Catalogue Module
3. Circulation Module
4. Administration Module
5. Serial Control Module
6. Online Public Access Catalogue (OPAC)

The Administration Module has been enhanced in the new version of SOUL 3.0, incorporating three additional submodules: User Management, System Parameters, and Masters.

Among these, the Circulation Module is particularly vital, as it facilitates a range of functions, including:

- Transaction processing of materials
- Book Bank Issue/Return

- Group Issue/Return
- Member login/logout capabilities
- Stock verification
- Inter Library Loan (ILL)

Managing serials is often one of the more challenging tasks within a library; however, the Serial Control Module effectively addresses this issue by efficiently tracking serials. This module is based on the KARDEX system.

Additionally, an Online Public Access Catalogue (WEBOPAC) has been established (<http://192.168.24.220/webopac>) to enhance access to library resources. The OPAC offers an advanced search capability that requires only minimal information about the item. Users can search by providing one or two of the following criteria: author, title, corporate body, conference name, subject headings, keywords, class number, series name, or accession number. Furthermore, OPAC users have the option to export their search results in PDF, MS Excel, and MARCXML formats

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

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

A. Any 4 or more of the above

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

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals

during the year (INR in Lakhs)

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

2.17

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

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

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

256

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

4.3 - IT Infrastructure

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

A robust IT infrastructure is essential for the survival of any higher education institution, as it provides students with practical skills that enhance their employability. With this in mind, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, has consistently prioritized the regular enhancement of its comprehensive IT Infrastructure. In July 2023, the college had internet facilities with a bandwidth of 200 Mbps.

The college maintains a network of 937 desktop computers connected via wired and Wi-Fi internet. A dedicated IT technical support team of five members, led by Dr. Jatinder Singh Saini, oversees the maintenance of hardware, software, and network operations. This team is also responsible for installing and configuring computer systems, troubleshooting hardware and software issues, and managing the Computer Centre (CC)

operations, the college network, and computer labs.

The college has an extensive campus-wide network connecting all major buildings, departments, faculty residences, and hostels. Built on an optical fiber backbone and Gigabit Ethernet technology, this network links computers across the campus. To further improve connectivity, around 250 wireless access points (802.11g) have been strategically installed in various locations. In year 2023-24, the college acquired new hardware to upgrade its IT infrastructure, including computers, application servers and network switches.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://bbsbec.edu.in/desktop-computers-and-network-components-detail/

4.3.2 - Number of Computers

937

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

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure

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

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

71.29

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

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

In the year 2023-24, the following procedures were adopted for the maintenance of college infrastructure:

1. The college water system was subjected to intensive regulation by the college pump operators in order to ensure the provision of safe drinking water. The TDS level of water was monitored periodically.
2. In order to preserve the natural environment of the college, skilled gardeners maintained college lawns, flowers and trees.
3. Various steps were taken to maintain the college Sewerage Treatment Plant (STP) for better waste management.
4. The College Electrical Maintenance Cell, which consists of various skilled personnel and is headed by the college XEN, undertook periodic maintenance drives to ensure sustainable power supply. The cell follows a comprehensive SOP for their operations.
5. Taking cognizance of the serious problem of pest control, the college authorities coordinated with the concerned municipal body for periodic fogging of the campus.
6. The college administration ensured strict adherence to the SOP on the subject of college transport/vehicles.
7. During the 2023-24 session, steps were also taken for the proper maintenance of all college hostels. These steps included white-washing, maintenance of RO water filters, re-evaluation of existing fire-fighting systems, service of CCTV cameras and the upkeep of sewerage systems.
8. Keeping the mental and physical well-being of the students in mind, the college dispensary organised three medical check-up camps.
9. There is laid down procedure for the energy

consumption(College Energy policy attached).

10. To manage waste and e-waste in the campus the college has a detailed procedure which is reviewed every three years (College waste management policy attached).

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://bbsbec.edu.in/videos-of-infrastructure/

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

408

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

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

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

403

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above
File Description	Documents
Link to Institutional website	https://bbsbec.edu.in/capability-enhancement-and-development-schemes/
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File
5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
1580	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
1580	
File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File
5.1.5 - The Institution has a transparent	A. All of the above

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

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

64

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

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

5.2.2.1 - Number of outgoing student progression to higher education

14

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

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

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

7

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

10

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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

BBSBEC strongly believes that students are important stakeholders in the field of education and involving them into academic and administrative process is very crucial. BBSBEC has established a two tier Student Council at each department level, consisting of SAC & SAdC. The committees of students are formed for looking after extracurricular activities and academic events throughout the year.

Role of Student Academic Council (SAC)

The various roles of student academic council are as follows:

1. Provide feedback and suggestions regarding the timetable and content of various subjects.
2. Obtain and provide students feedback on each subject delivery and quality of instructions
3. Bring to the notice of the chairperson any immediate problem being faced by the student.
4. Suggest any projects which could provide better understanding of subjects alongwith the industry requirements.

Role of Student Administrative Council (SAdC)

The various roles of student academic council are as follows:

1. Provide feedback and suggestions regarding the administrative issues in the academic complex and improvement of various facilities.
2. Bring to the notice of the chairperson any problem

regarding administration being faced by the students.

3. Ensure passage and implementation of admin instructions issued by the faculty/ HOD/ Principal by multiple and fastest means (Whatsapp/SMS).

Apart from the Student Councils, there are some other professional bodies such as ISHRAE, IICand IEI in which students are playing an active role.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/5.3.2_2024.pdf
Upload any additional information	View File

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

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

10

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

5.4 - Alumni Engagement

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

BBSBEC ALUMNI ASSOCIATION has been registered as a Society under the Societies Registration Act 1860 on July 16, 2020. The association executive members meet on regular basis in the College, have interactions with the College Principal, HoDs, Deans, faculty and students. They discuss the plan to conduct the alumni activities and development of their alma mater. The alumni

of the institution willingly contribute by promoting the institutional brand; providing mentorship to on-going students; facilitating internships, career opportunities, job placement for outgoing students and so on. The institution alumni have deep love and regard for the institute and hence are always passionate to extend all sort of contribution for growth of institute, staff and students. Alumni with their strong linkage across industry verticals play an important role in student internships mock interviews and placements. Realizing the importance of Social media in this high-tech age, BBSBEC Alumni cell has created its own LinkedIn and Facebook pages.

[LinkedIn.com:

[https://www.linkedin.com/home?trk=nav_responsive_tab_home\]](https://www.linkedin.com/home?trk=nav_responsive_tab_home)

And college LinkedIn page:

<https://www.linkedin.com/school/15098533/admin/>

[facebook id BBSBEC Alumni page :

[https://www.facebook.com/alumnicell.bbsbec\]](https://www.facebook.com/alumnicell.bbsbec)

And college facebook page:

<https://www.facebook.com/theofficialBBSBEC>

[facebook page: Baba Banda Singh Bahadur Engineering College Alumni Page]

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

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

D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 - Institutional Vision and Leadership**

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

The College aims to establish itself as a leading center of education, dedicated to promoting academic excellence and cultivating socially responsible, collaborative leaders. Its governance reflects this mission by upholding high morals, values, and inclusivity for all staff and students, regardless of background.

Aligned with its Strategic Plan, medium and long-term matters are typically discussed in Higher Forum (HF) meetings before being submitted to the Secretary of the Trust for review by the Board of Governors (BOG) or College Trust. The BOG meets biannually to align its decisions with the Strategic Plan, with meeting minutes shared with the Principal for implementation through action plans monitored by the IQAC.

Operational matters are managed by the Principal in consultation with the HF. Routine affairs are addressed in regular meetings, while each department holds Extended Forum (EF) sessions periodically. Issues and feedback from EF meetings are reported to the HF by department heads. After thorough discussion, the Principal, in consultation with HF members, either resolves the issues or refers them to the Management for decisions. All actions are guided by input from relevant stakeholders to ensure transparency and alignment with the College's strategic objectives.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AQAR_6.1.1_L2023-24.pdf
Upload any additional information	View File

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

The Management encourages active staff participation in various committees, including IQAC, Clubs/Professional Societies, Academic Committees, and Grievance Redressal Committees. This

approach ensures quality assurance, continuous enhancement, and holistic development of college activities. Operational matters are addressed through decentralized forums, with decisions guided by participative management principles.

A key annual activity is the preparation of the college budget, conducted systematically. Each January or February, the Principal requests Higher Forum (HF) members to gather and submit budget proposals for the upcoming fiscal year. HF members collaborate with staff in their respective departments/sections to identify budgetary needs. Lab/club/cell in-charges work with relevant staff to propose financial requirements for the next fiscal year.

HF members consolidate and discuss these proposals within their respective departments/sections. These consolidated budgetary requirements are further deliberated in HF meetings. The Principal then compiles the overall budget for the college and presents it to the Board of Governors (BOG) or College Trust through the Secretary (Trust) for approval. The BOG or College Trust carefully reviews and finalizes the annual budget during their meeting, ensuring alignment with the college's strategic and operational priorities.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AQAR_6.1.2_L2023-24-Budgeting2024-25.pdf
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

In response to admission trends, the college formulated its Strategic Plan (2020-2025) during 2019-20, focusing on key areas essential for the institution's sustained growth and development.

The plan identified several strategic priorities, including Academic Processes, Student Development, Branding and Marketing, Industry-Institute Interaction, Human Resources, Infrastructure, Governance, and Relationship Building. A significant aspect of the plan addressed the need to enhance student employability. Recognizing the importance of expanding skills beyond technical knowledge, the plan emphasized training in soft skills, quantitative aptitude, and general knowledge.

To promote multidisciplinary learning, the introduction of major and minor degree options in the university curriculum became a central focus. Faculty members from the college played an active role in the university's Board of Studies, advocating for these curricular changes. Consequently, students in all B.Tech. branches can now pursue a minor degree alongside their primary degree program. This initiative offers students a broader educational experience, equipping them with diverse skills to meet the demands of a competitive job market.

This approach aligns with the college's strategic vision to empower students with a comprehensive skill set, ensuring enhanced employability and adaptability in their professional careers.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://bbsbec.edu.in/wp-content/uploads/2019/11/Strategic-Plan-Deployment-2020-25.pdf
Upload any additional information	View File

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

The Principal plays a key leadership role in the governance of the college, guided by the Board of Governors (BOG). They propose new initiatives aligned with the Strategic Plan to the top management and oversee the implementation of policies through collaboration with faculty and staff across all levels, facilitated by the Higher Forum.

Deans are instrumental in managing diverse aspects of the college, including academics, examinations, research, training and placement, industrial relations, and co-curricular activities. They work closely with departmental faculty to ensure effective execution of plans and seamless coordination as needed.

The Professor-in-Charge of Administration oversees key operational areas such as medical facilities, security, transportation, the college store, and establishment-related matters. Hostel management is entrusted to senior wardens, who,

along with assistant wardens and caretakers, develop and enforce hostel policies, rules, and regulations to ensure smooth operations.

The estate office handles the management and maintenance of construction projects and general upkeep of the campus. Additionally, various committees operate based on Standard Operating Procedures (SOPs) and established guidelines, ensuring efficient execution of statutory and other designated responsibilities, contributing to the overall smooth functioning of the institution.

File Description	Documents
Paste link for additional information	https://bbsbec.edugrievance.com/
Link to Organogram of the institution webpage	https://bbsbec.edu.in/wp-content/uploads/2023/05/AOAR_6.2.2_WBSL_Organogram2021-22.pdf
Upload any additional information	View File

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

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

The institution has established a comprehensive range of welfare measures for both teaching and non-teaching staff, highlighting

its dedication to their well-being. These initiatives aim to create a supportive and conducive working environment, fostering personal and professional growth.

The welfare measures provided to staff include:

- Group Health Insurance (GIS)
- On-Campus Accommodation
- Computing Facilities for All Faculty Members
- Bus Service
- Crèche
- Recreational Facilities for Staff and Their Families:
 - Swimming Pool
 - Gymnasium
 - Sports Facilities
 - Rest/Guest House
 - Dispensary Services
 - Provident Fund as per approved norms
 - Various leave options, including Study Leave, Special Leave, Medical Leave, Maternity Leave, and others
 - Gratuity in accordance with government regulations
 - Independent Offices/Cabins for All Faculty Members
 - Provision for Advances in Cases of Critical Medical Treatment

These measures collectively reflect the institution's commitment to the holistic well-being of its employees, ensuring a supportive and enriching workplace environment.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/typography/
Upload any additional information	View File

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

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

13

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

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

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

5

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

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

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

97

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

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

BBSBEC's Management, driven by its commitment to education as a facet of social responsibility, recognizes the crucial role of human resources and provides both moral and financial support to its staff. To ensure continuous development and accountability,

the institution has implemented a comprehensive annual appraisal system for all employees.

This structured appraisal system is designed to motivate staff members, encouraging active engagement with set criteria while fostering personal and professional growth. Performance evaluations are conducted before the annual increments for regular employees and contract renewals for contractual staff.

The appraisal process is divided into two distinct systems: one specifically for faculty members and another for non-teaching staff. For Class III and Class IV employees, designated criteria guide the appraisal process, with the reporting officer completing the performance evaluation forms.

In all cases, the Principal oversees the final assessment, ensuring a fair and impartial evaluation process. This approach reflects BBSBEC's dedication to creating a supportive, growth-oriented workplace. By integrating these practices, the Management upholds its values of social responsibility in education while fostering a culture of accountability and continuous improvement among staff members.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AQAR_6.3.5_L2023-24.pdf
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

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

The organization has established a robust auditing framework involving both internal and external auditors to ensure financial accountability and transparency. Internal audits are conducted periodically by individuals appointed by the Principal, with their reports completed prior to the external audit. The external audit typically takes place after the completion of all accounting procedures.

During the Internal Audit, a thorough examination of accounts is conducted, including securing confirmations for credit balances.

Any discrepancies related to payments, TDS compliance, or statutory requirements are identified, with supporting documentary evidence collected.

Following the Internal Audit, Statutory Auditors are engaged to perform the External Audit, which usually occurs after June 30th of the subsequent year. The auditors provide a detailed report to the management, outlining their findings. The audit results for both the institution and the trust are consolidated, and annual returns are submitted to the Income Tax Authorities.

Additionally, when funds are received for specific activities, an audited utilization certificate is prepared and submitted to the respective funding agency. This practice reinforces the organization's commitment to accountability and ensures that funds are utilized effectively and transparently. The most recent audit report further validates the organization's adherence to financial best practices.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/balance-sheets/
Upload any additional information	View File

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

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

50.7

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

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

As a self-financing institution, the college's primary revenue

source is student fees, with admissions conducted in accordance with approved intake levels and the norms set by the Punjab Government. In addition to tuition fees, the college generates income through research and travel grants, as well as funding for organizing curricular and co-curricular activities.

The institution further supplements its revenue by collaborating with external entities such as the National Testing Agency (NTA), local government departments, PCERT, and Chandigarh, allowing them to utilize its infrastructure for various purposes. This strategic approach not only boosts financial resources but also ensures efficient utilization of facilities.

Resource allocation within the college is meticulously planned to ensure optimal usage. With much of the necessary infrastructure already in place, significant expenditures are directed towards staff salaries, utility bills, infrastructure maintenance, and student development initiatives, including personality enhancement programs, training and placement activities, cultural and sports events, and project work. Additional investments support student scholarships, faculty development, consumables, statutory obligations, waste management, and green initiatives.

This strategic prioritization enables the college to manage its resources effectively, enhancing the student learning experience, fostering faculty growth, maintaining a sustainable campus, and adhering to statutory and environmental responsibilities.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/balance-sheets/
Upload any additional information	View File

6.5 - Internal Quality Assurance System

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

1. Quality Audits:

The IQAC has institutionalized quality audits, including internal and external at various levels to ensure continuous improvement in the institution's functioning. The following audits are mainly conducted periodically to assess the effectiveness of various processes:

- Academics Audit
- Administrative Audit
- Accounts and Finance Audit
- Green Audit
- Energy Audit
- e-waste Audit etc

IQAC's efforts have resulted in the systematic documentation of findings and actionable insights from these audits. These outcomes are shared with stakeholders to foster accountability and transparency. Implementation of recommendations has led to improved academic performance, streamlined administrative processes, and enhanced student satisfaction, contributing to the institution's overall quality assurance framework.

1. Alumni Engagement:

IQAC has played a pivotal role in institutionalizing structured alumni engagement practices. An active Alumni Association already exists to foster collaboration between the institution and its alumni. Regular alumni meet-ups, webinars, and mentorship programs are organized to leverage their expertise for career guidance and networking opportunities for students.

The IQAC aims to create an alumni portal to maintain a robust database and enable seamless interaction. Alumni contributions, such as guest lectures, internships, and industry collaborations, have significantly enriched academic and professional development. This initiative has strengthened alumni relations, boosted institutional branding, and created a collaborative ecosystem for lifelong learning and support.

File Description	Documents
Paste link for additional information	https://bbsbec.edu.in/naac/AQAR_6.5.1_UL-2023-24.pdf
Upload any additional information	No File Uploaded

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. Add on courses:

The institution, under the guidance of the IQAC, emphasized on structured add-on courses to enhance students' employability and skills. These courses have been designed based on feedback from stakeholders, including industry experts, alumni, and students. Programs like "IIT Bombay Spoken Tutorial", "Introduction to Programming with Python", "Design Thinking and Creativity for Innovation", "Life Skill Development" etc. have been conducted. The courses were integrated with the existing curriculum, offered during spare time, weekends or semester breaks, and delivered by subject matter experts.

19 add-on courses were conducted during the year, which benefitted 932 students in various offered areas of interest. Regular reviews are conducted by the IQAC to evaluate the effectiveness of these courses, ensuring alignment with emerging trends and industry demands. The student participation and engagement has increased significantly.

1. Patents:

In line with its mission to foster innovation, the institution revamped its research and innovation ecosystem with IQAC's support. Dedicated workshops on Intellectual Property Rights (IPR) and patent filing were conducted to raise awareness among faculty and students.

The IQAC monitored the outcomes, resulting in a rise in patent filings over the past year. Faculty and students collaboratively developed innovative projects, many of which were transformed into patents. For example, a student-led project on sustainable energy solutions earned a patent and attracted industry partnerships. This initiative not only strengthened the institution's research culture but also motivated other departments to pursue similar projects that may result into innovations.

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

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of

A. All of the above

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

File Description	Documents
Paste web link of Annual reports of Institution	https://bbsbec.edu.in/naac/AQAR_6.5.1_UL-2023-24.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

One of the objectives of this institution is to promote education that would be sensitive to the needs of the various sections of society with special emphasis on gender equality and gender sensitivity.

College makes efforts to maintain gender balance at all levels and amongst faculty members also. Some of the departments are also headed by Women professors. Female teaching and non-teaching faculty are also reasonable in number as compared to other gender. The women staff members are given maternity leave as per the regulations. They are provided with full salary during the said leave period to encourage their service to the institution.

The institution aims to groom students to be self-reliant, specialists in their chosen discipline, continuous learners and effective communicators, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security. Students of

both the genders are given equal opportunities to grow and develop into able and responsible citizens of the future. The institution encourages the female students to actively take part in academic, research and sports also. Girl students can take part in all intra and inter college co-curricular events. Sports activities for girls range from table tennis, basketball, football, badminton and so on. Among the cultural activities they participate in dance, singing, music events, debate, public speaking, quiz and many more.

Every year there is a huge celebration of women's day and inspiring women personalities are invited to share their life experiences.

File Description	Documents
Annual gender sensitization action plan	https://bbsbec.edu.in/gender-sensitisation/
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://bbsbec.edu.in/wp-content/uploads/2024/02/7.1.1geotagged-photos.pdf

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

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

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

Solid Waste Management

After collecting the waste from all around the college, waste segregation has been done into dry waste and wet waste. Dry waste includes paper, cardboard, glass tin cans etc. Wet waste on the other hand, refers to organic waste such as vegetable seeds, left-over food etc. Separating our waste is essential as the amount of waste being generated today causes immense problems. Household waste are separated daily into different bags for the different categories of waste such as wet and dry waste, which are disposed off separately.

Liquid Waste Management

A sewage treatment plant is operational near the swimming pool since May, 2015 and the capacity of the plant is 700m³/day. Sewage Treatment Plant is well-maintained by the College and functions efficiently. The Plant uses natural techniques to recycle water, making it eco-friendly. The purified water is used for irrigation and the excess is fed to a nearby water body.

E-Waste Management

The institute follows the E-Waste management policy of the state under the Environment (Protection) Act, 1986. The audit was conducted to check physical implementations and document evidence.

Waste Recycling System

- Waste recycling is a key component of modern waste reduction and is the third component of the "Reduce, Reuse, and Recycle" waste hierarchy. It promotes environmental sustainability by removing raw material input and redirecting waste output in the economic system. Any waste management system depends not only on technical factors and availability, but also the motivation of the users to participate in the process.

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

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above
File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File
7.1.5 - Green campus initiatives include	
7.1.5.1 - The institutional initiatives for greening the campus are as follows: <ol style="list-style-type: none"> 1.Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	A. Any 4 or All of the above
File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded
7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution	
7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

<p>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</p> <p>5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</p>	<p>A. Any 4 or all of the above</p>
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File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	View File
Any other relevant information	View File

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

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, has established itself as a hub of holistic learning by organizing a variety of events and initiatives that embrace diversity, promote academic excellence, and nurture the overall growth of its students.

The college warmly welcomed its new students with a fun-filled and exciting Fresher's Party, a celebration fostering unity among students from diverse religious, caste, and cultural backgrounds.

The Department of Electrical Engineering's Electro Infinity Club celebrates the Fateh Ambush Cup 2023, encouraging active participation in academic, cultural, and athletic events.

The college proudly celebrated the achievements of its IKGPTU toppers and winners of the Youth Festival organized by IKGPTU Jalandhar. These recognitions reflect the institution's emphasis on excellence in both academics and extracurricular activities.

To equip students with valuable skills and insights, the college organized various professional development events, including:

- An Expert Talk on career prospects in the Indian Air Force and overcoming personality barriers to achieve professional excellence.
- An industrial visit to Ganguwal Power House (BBMB, Rupnagar) on March 15, 2024, for B.Tech 6th Semester students, offering practical exposure to power generation processes.

On October 25, 2023, the college hosted an inspiring session by IPS officer Mr. Madhav Upadhyay on "Building a Career in Civil Services," providing final and pre-final year students with valuable guidance.

The college welcomed over 500 students and 25 teachers from five government schools, offering insights into higher education opportunities, career paths, and academic excellence.

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

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

Baba Banda Singh Bahadur Engineering College actively educates its students and employees about constitutional values, rights,

duties, and responsibilities, shaping them into responsible citizens.

In addition to providing quality technical education, the institution organizes various programs and activities to instill moral values and social responsibility. These initiatives aim to raise awareness of the Indian Constitution and inspire both students and staff to contribute meaningfully to society.

Moreover, the affiliated university curriculum mandates courses on Professional Ethics, Human Values, and the Constitution of India, ensuring that students develop a strong foundation in constitutional principles. Through these efforts, the institution cultivates a sense of responsibility and inspires its community to uphold and promote these values in society.

The college encourages participation in events celebrating constitutional and cultural significance, such as Teej, International Women’s Day and the Birth Anniversary of Baba Banda Singh Bahadur. It also hosts motivational webinars, seminars, and expert talks on topics like “Problem Solving and Idea Generation,” “Body Language of Winners and Interview Skills,” and “Jaito da Morcha.” Practical workshops, including those on Excel Essentials and Entrepreneurship, along with short-term courses such as “Employability Skills for Industry 4.0” and Entrepreneurship, further equip participants with essential skills while fostering a commitment to moral and constitutional values.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://bbsbec.edu.in/outreach/sensitization/
Any other relevant information	https://bbsbec.edu.in/outreach/sensitization/

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

A. All of the above

professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

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

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

This summary is of the vibrant celebrations and events hosted by Baba Banda Singh Bahadur Engineering College, showcasing its commitment to a well-rounded educational experience.

The college's celebration of National Sports Day is a wonderful occasion, honoring Major Dhyan Chand, one of India's finest hockey players, whose birthday on August 29 is recognized as National Sports Day.

In addition, the celebration of ISHRAE Student Day acknowledges the contributions of students in the fields engineering disciplines.

On September 5, 2023, at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, students honored their teachers on Teacher's Day. They expressed gratitude by presenting gifts, cards, and cakes, and organizing special events to recognize their dedication and contribution to education. This day highlights the crucial role teacher's play in shaping the future of students.

Engineer's Day is another significant event, celebrates on September 15 to honor the birth anniversary of Sir Mokshagundam Visvesvaraya, a renowned engineer and statesman. The day recognizes the invaluable contributions engineers have made to

society's advancement and inspires future generations in the field of engineering.

The college also celebrated International Women's Day on March 6, 2024, at Baba Banda Singh Bahadur Engineering College, highlighting the achievements and contributions of women across various sectors and promoting gender equality.

Additionally, the college observed International Forest Day, emphasizing the importance of preserving forests and promoting environmental awareness among students.

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

7.2 - Best Practices

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

PRACTICE 1: MENTOR-MENTEE SYSTEM

Objectives of the Practice:

The Mentor-Mentee System is designed to provide students with a dedicated support system throughout their academic journey. The main objectives are to foster a strong, trusting relationship between the mentor and mentee, guide mentees in achieving personal and academic goals, and develop critical life skills. The system encourages reflective thinking, enhances communication, and provides tailored advice on academics, career choices, and personal development. By offering consistent guidance and emotional support, mentors help mentees build confidence, navigate challenges, and enhance their holistic development. This practice is rooted in the principles of trust, individualized attention, and sustained interaction.

PRACTICE 2: PERSONALITY DEVELOPMENT PROGRAM (PDP)**Objectives of the Practice:**

The Personality Development Program (PDP) aims to enhance the personal, social, and professional growth of students by improving their communication skills, leadership qualities, and interpersonal abilities. The program focuses on the development of both intra-personal and inter-personal skills, helping students understand themselves better, identify their strengths and weaknesses, and cultivate a positive attitude toward life. The main objectives include improving self-esteem, building confidence, enhancing public speaking and presentation skills, and preparing students for leadership roles. Ultimately, PDP strives to create well-rounded individuals capable of succeeding in their personal and professional lives.

File Description	Documents
Best practices in the Institutional website	https://bbsbec.edu.in/best-institutional-practices/
Any other relevant information	https://bbsbec.edu.in/naac/7.2.1_attendance_24.pdf

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

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, demonstrates its commitment to providing financial assistance to students through various scholarships and fee waivers. During 2023-24, under government schemes, 304 students benefited from the SC/ST Scholarship with an approximate amount of Rs. 2.34 crore. The Merit-Cum-Means Scholarship supported 7 students with Rs. 2.10 lakh, while 48 J&K residents received Rs. 48 lakh under the PMSSS Student Scheme. Additionally, 44 students availed of the Fee Waiver Scheme, amounting to Rs. 26.40 lakh.

The college also prioritized scholarships funded by non-government entities and institutional initiatives. A notable 282 students were supported under B.Voc, BBA/BCA, and M.Tech/MBA programs with Rs. 21.15 lakh. Merit-Based Scholarships aided 39 students with Rs. 4.40 lakh, and schemes like the Fatherless

Scholarship, Sikh Religion Examination, and Helping Hand Scholarship collectively benefited numerous students with amounts ranging from Rs. 20,000 to Rs. 70,000.

In addition to this, BBSBEC itself offers many additional scholarships as mentioned in the attached file. Through these initiatives, the institution ensures inclusivity and financial support, making education accessible for economically weaker sections, minority groups, and meritorious students. The college's efforts reflect its dedication to fostering equal opportunities and academic excellence.

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

7.3.2 - Plan of action for the next academic year

In the upcoming academic year, the institute will emphasize interdisciplinary research by encouraging faculty to secure research grants and establish collaborations with industry partners. Seminars, workshops, and conferences will be organized to foster the dissemination of research findings. Undergraduate research initiatives will be strengthened through enhanced mentorship, increased funding opportunities, and expanded student clubs to host technical competitions, hackathons, and innovation challenges, nurturing creativity and problem-solving abilities.

To boost student employability, career development workshops, internships, and entrepreneurship opportunities will be prioritized. Faculty development will be supported through professional training workshops, seminars, and conferences, along with grants, sabbaticals, and incentives for publishing in high-impact journals. Faculty participation in pedagogical training programs will be encouraged to enhance teaching effectiveness and student engagement.

The institute plans to upgrade laboratory facilities, equipment, and software to support teaching and research. Improvements to campus infrastructure, including classrooms, libraries, and recreational areas, will create a more conducive learning environment. Sustainability and safety measures will be enhanced

through energy-efficient practices.

Engagement with the local community will continue through outreach programs, industry-academia interactions, alumni networking, and career fairs to support student placements. Regular assessments of academic programs will ensure alignment with accreditation standards, with feedback mechanisms from students, faculty, and industry stakeholders guiding continuous improvement.