SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JB INSTITUTE OF TECHNOLOGY

NH-72, VILLAGE SHANKARPUR, CHAKRATA ROAD, DEHRADUN,
UTTARAKHAND - 248197
248197
www.jbitdoon.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

JB Institute of Technology (JBIT) stands as a beacon of excellence in the realm of technical education in Uttarakhand. Established in 2009 by the Jai Bhagwan Educational Society, JBIT has consistently set high benchmarks for its peer institutions to aspire to achieve. The Institute's primary objective is to contribute positively to national development by imparting top-tier technical education and training to aspiring individuals. Nestled amidst the serene foothills of the Himalaya ranges, JBIT enjoys a picturesque location that provides an ideal backdrop for learning. Its tranquil and ethereal environment fosters an atmosphere conducive to academic growth and excellence.

JBIT firmly believes that technical education becomes truly meaningful and fruitful when it leads to the holistic and systemic development of students. The torchbearers of this institution have always looked beyond the esoteric domain of knowledge into the broader vistas of social and cultural progress. Guided by this vision, has experienced phenomenal growth over the past one decade. With its visionary management, dedicated faculty, and efficient administrative machinery, the Institute has propelled itself to the forefront of technical education in the region.

As a routine practice of organising and conducting a large number of extension activities and events pertaining to the different aspects of culture, education, social, medical, technical, ethical and developmental are carried out in a regular practice with special reference to the regional, national and international important days associated with different themes and campaigns. This institute is providing excellent support through its state-of-the-art infrastructure which helps to deliver quality education enriched with experimental learning and research. To develop scientific temper among students for the socio-economic development of nation and to build spirit of inquiry to support liberal thoughts and the creativity are among key practices of the institution to create students as professionals for their successful career.

Vision

To be a value based globally recognized institution providing quality technical education, multi-disciplinary research, innovation and entrepreneurial attitude to develop technological competent, ethically strong engineers with global prospects.

Mission

1. To promote academic excellence by offering equitable quality educational programs catering the current and future needs of the society, region and industry.

2. To promote innovation in teaching, learning, research, extension work and consultancy services to create global knowledge eco-system.

3. To nurture talent and entrepreneurship enabling holistic development in students to serve humanity through the well-rounded, multi-skilled and socially responsible global citizens in a multidisciplinary ecosystem.

4. To extensive use of technology enabled learning blended mode learning using ICT for academic, administrative, financial, examination, evaluation and students support system of the Institute.

5. To explore optimal development opportunities to create competent professionals capable of upholding ethical values and principles of sustainable development.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Institution envisions the standards of Excellence, Service, and Setting Trends
- Green, clean, safe and eco-friendly campus with an Innovative eco system is functional with Eco-club, YRC and NSS. Farming and Green initiatives with a mission of promoting nature sustainability.
- Institution marching towards Skill Campus, Green Campus and Digital Campus and have attained ISO Certification.
- Students' supportive programs like internship, mentoring, counselling, add-on and certificate courses, activities of clubs, placement cell, NSS and YRC to match with industrial and Institutional requirements
- Qualified and Experienced Faculty Members
- Good Infrastructure and Learning Environment
- Discipline and Professionalism
- Collaborations, Extension activities and affiliation with Unnath Bharth Abhiyan, Nodal Centre for online and of offline exams - NEET, GATE, UGC-NET, CUET, UK-PSC, University/State Entrance Exams etc.
- Good Placements
- All Laboratories well equipped with latest instruments and apparatuses.
- Facilities available for various indoor and outdoor games and sports, financial support to participate in intercollege and university level events.
- Situated at the foothills of Himalayas having a serene environment with the conducive atmosphere for Teaching-Learning
- Conforming to OBE standards
- Recognition of work-done by our institute in Sustainable Development Goals (SDG) by Government of Uttarakhand.

Institutional Weakness

- Students and staff participation in Research activities and Publications in Journals.
- Difficulty to attract sizable research funds from government and Non-government agencies being a self-financing Institution.
- Few representations of faculty in university curriculum designing bodies.
- Average quality of students has been reduced as less students are opting Core branches in engineering.

Institutional Opportunity

- Scope for more consultancy and research projects.
- Alumni Connect
- Opportunity to attract students from across the nation.
- Getting External Funds
- Infrastructure Utilization for Startups
- More students to be enrolled in MOOC's programmes enabling academic empowerment.
- Several teachers have registered for Ph.D., which on completion will enhance the quality of the teaching learning process in the institute.
- Compliance to NEP requirements
- Additional collaborative ventures/MoUs with other institutes and industries to enhance academic exposure of students and faculties.

Institutional Challenge

- E-learning platform: - Investment in e-learning and starting of Massive Online Open Course (MOOC's) is an opportunity waiting to be harnessed for quality education.
- Improving Academic Results
- Employment opportunities in core companies
- To promote students/faculty exchange programmes with National & International Institutions.
- Accreditation of Courses
- Potential of Alumni is yet to be explored and expanded.
- Building Research Culture
- Increase Competition from nearby colleges.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

JB Institute of Technology is an affiliated Institution under VMSB Uttarakhand Technical University, Dehradun Uttarakhand. 6 under graduate and 2 Post Graduate programmes are offered as per the regulations and curriculum & syllabi of VMSB Uttarakhand Technical University.

The Institution follows the syllabus and scheme prescribed by the affiliating University. The Institution takes utmost efforts in effective curricular planning and implementation as prescribed by our affiliating university. Each course follows the Choice Based Credit System (CBCS) and the syllabus framed by Syllabus committee, Board of Studies of VMSB Uttarakhand Technical University, Dehradun, Uttarakhand. Compliance of affiliating university curriculum is done to contribute different domains in curriculum and curricular gaps are identified through inputs from stakeholders.

Academic calendar is diligently prepared to implement the curriculum effectively. Institute adheres strictly to the Academic Calendar prepared in the beginning of each semester as per the academic schedule provided by the affiliating University which includes weekly working days, holidays, internal examinations schedule, as well as various functions and events. Internal Tests and Semester End Examination are conducted as per the prescribed schedule.

Guest lectures, Internships and Value added/Add-on courses are conducted to motivate and enlighten the

students to do innovative projects. Analytical and aptitude training classes including PDPs are conducted to ensure better placement. Students' knowledge are enriched through experiential learning, internship, project work. JB Institute of Technology provides value based quality education and outcome based learning to the students, in line with its Vision and Mission. Feedback is collected from various stakeholders like Students, Faculties, Parents, Alumni and Employers. Based upon the feedback, curriculum enhancement in the form of value added/Add-on courses and professional skill training courses are provided to the students, which enhances the multidisciplinary skills and bridges the gap between the curriculum and industry.

Teaching-learning and Evaluation

The Class room environment available in our country is traditional type with a student of lateral thinking ability. Education is a dynamic process that develops the students according to the changing situation and times. Educational system is a continuous reconstruction of experiences and life long process.

The institution has a student-faculty ratio of 9.84: 1 for effective teaching.

Each semester academic calendar is prepared in accordance with affiliating University. Advanced and slow learners are identified based on learning abilities, and special programs are arranged to enhance their performance. For slow learners Remedial Classes, bilingual explanation and discussions are conducted after the class hours for better understanding. Internal tests and end semester examinations are conducted for continuous assessment. CO's & PO's and Revised Blooms taxonomy is followed in the question papers. The process is transparent and adheres strictly to the academic calendar. The Academic committee ensures the syllabus completion and collect feedback from the students through Feedback committee. The average pass percentage of students during last five years is 100 %. Faculties were allotted as mentor for academic counselling & other related issues. Average percentage of full-time teachers against sanctioned posts is above 95%.

Student centric methods are adopted for enhancing learning experiences. Our institution promotes ICT teaching methodologies through E-Learning resources such as NPTEL Courses, Virtual Lab, Smart Class rooms, E-Books and E-Journals. Course Outcomes (COs) are defined for all subjects and mapped with Program outcomes (POs) and Program Specific outcomes (PSOs). Attainment levels of COs, POs and PSOs are calculated and evaluated. The student feedback mechanism facilitates to identify the strength and areas for continuous improvement in teaching learning process.

Research, Innovations and Extension

The institute has developed a research and development cell with futuristic policies in order to develop research attitude towards students and faculties. Although it is in the beginning stage we have conducted several workshops and seminars to enable the students and faculties in recent trends of the research, entrepreneurship development. Along with our faculties also presented their papers in National and International conferences. Furthermore, our faculty members published their research work in peer reviewed national and international journal indexed in UGC care, SCOPUS and Web of Science. We also start to get research grants and applied for various research project to government and non-government agencies and industries.

Faculty members are motivated to apply for research projects funded by Government and Non-Government agencies The Institution has C.V. Raman Centre for Research, Innovations and Entrepreneurship to identify young talents and nurture them in research. Number of workshops / seminars conducted on Intellectual Property

Rights and Industry-Academia Innovative Practices. Extension activities are regularly conducted by NSS, YRC and departmental clubs to sensitize students to social issues and concerns.

To extend our students field exposure we have collaborated with the industries and companies for their training and internship. We have also signed MOU's with some industries and companies to enable the knowledge sharing and resource sharing.

Infrastructure and Learning Resources

The College area of 7.7 acers is located in an easily reachable place through road, rail and Air. The eco-friendly infrastructure with constructed area of 21920 Sq. Mt. in a conducive environment attracts students' fraternity from and around a large area. It has well lighted classrooms with adequate ventilation, conference halls, seminar halls and class rooms with ICT facilities and a spacious auditorium. Ramps and Wheel Chairs are also available for them.

The other required amenities like Placement Cell, Anti Ragging Committee, ICC & GRC Committee, Indoor games facility, Boys and Girls Common Room, CCTV cameras, Hostel, Adequate restricted parking facility, Generator with 125 KVA & 64 KVA, Fire Extinguishers and RO water purifier for drinking water are at the service to the students.

The institute has a separate spacious multi-purpose playgrounds for outdoor games which include, Cricket Pitch, Football Field, Basket Ball, Volleyball Court, Kabaddi Courts, and Badminton Courts, Athletics (Long Jump, High Jump, 100 Mt., 200 Mt., 400Mt, 800 Mt., 1500Mt. Shot-Put, Javelin Throw) and Kho-Kho Fields. The institute has indoor games facilities such as Carom, Table Tennis and Chess with an Exclusive indoor game Hall. A well-equipped gymnasium with latest equipment's is maintained, Auditoriums is also used for cultural activities for the students.

The institute has a library spreading over 500 sq.mt. The college has automated ILMS Software provided by Libsys for serving to the requirements of the library needs of the students. The Software provides ease in lending and return of books and also the additional facility of reserving a book by students in case if it not available when they search it through the software. The books are bar code marked to provide easy identification and faster processing. The students ID card is also Bar code attached for automating student's identification and speeding library processes. The Library has in total 12 PCs for the ILMS software operations and Students access to digital materials. The Library provides access to students to E-Books, E-Journals through DELNET and EBASCO subscriptions.

Student Support and Progression

The highlights of this Criterion five are the efforts of an institution to provide necessary assistance to students, to enable them to acquire meaningful experiences for learning at the campus and to facilitate their holistic development and progression. It also looks into student performance and alumni profiles and the progression of students to higher education and gainful employment.

Students benefited through scholarships, free ships and needy students with learning difficulties are identified by institute. Provision is made for bridge and value added courses in relevant areas. Facilitating mechanisms like ICC, SC/ST Committee, and grievance redressal cell and welfare measures to support students.

The institution promotes value- based education for inculcating social responsibility and good citizenry amongst its student community. The institution promotes active participation of the students in social and cultural activities. Encouraging students' participation in activities facilitates developing various skills and competencies and foster holistic development.

The Alumni are a strong support to the institution. An active Alumni Society/Association contribute in academic matters, student support as well as mobilization of resources – both financial and non-financial.

Governance, Leadership and Management

JBIT's governance, leadership, and management strive to translate the Institution's vision into reality through the following means: The Board of Management (BoM) of the Institution holds meetings frequently to discuss and arrive to a consensus on the administrative and academic functions of the college.

The Director heads the academic and administrative setup. HoDs support in various academic activities as well as administration. Various committees headed by senior faculty members are formed by the Director. These committees help in the decentralization of work and ensure collective responsibility among faculty members. All staff members have freedom to express their views and their innovative ideas. The college provides advanced teaching facilities and excellent placement. The Grievance Redressal Committee looks into the grievances of both the students and staff, conducts an enquiry and addresses the grievances amicably and professionally.

Number of teachers are provided with financial support to attend conferences/workshops and membership fee of professional bodies. Total number of faculty development programms and Management Development Programmes organized by the Institution is 19 during this assessment period and Average percentage of teachers attended is above 80 %. Welfare measures provided to the teaching and nonteaching staff include educational support to children of teaching & non-teaching staff members, EPF, maternity leave benefits, insurance benefits, transportation and food, awards, and incentives, gift for staff marriage, Medical facilities including First-Aid facility and ambulance on campus. A well-defined system for faculty appraisal is followed in the Institution. External and internal financial audits are conducted periodically and improvement strategies are developed based on the audit report. A quality assurance cell (IQAC) has been instituted for initiating quality education including proper documentation and record.

Institutional Values and Best Practices

JB Institute of Technology upholds a set of values and best practices, which show the Institution's commitment towards the development of not only the students and the teachers but also the society and the nation. The Institution believes in providing fair treatment to both men and women, with gender-neutrality and there is no discrimination against women, race, caste, creed and religion. The college undertakes a lot of initiatives for gender equity & sensitization like, professional counselling, common rooms, transportation, hostel, facilities, etc.

The Institution organizes national and international commemorative days, events and festivals. The Institution is keen in providing safety & security for girl students and women employees by installing CCTV camera. The Institution has invested in green initiatives such as Rain Water Harvesting, STP, Water Recycling, and water conservation measures.

The institute has two best practices successfully implemented and provides better results in terms of ethical and social value to the students. Those two best practices are as follows-

Best practice No.-01- Save food save life

An initiative in practice in the institute to reduce food wastage in the mess of the institute in order to meet the hunger of a good number of people.

Best practice No.-02- 3-C in me

An initiative considered in the institute to cause consensus, course and capability among the students and people in masses of nearby areas to improve moral support and awareness among them.

Awareness in the society is very essential for the upliftment and development among masses. Serval programms are being regularly organised for the betterment of the society by Government and non-government sectors, but due to out of ignorance masses of the people get deprived and could not gain benefits. Hence it is essential to cause awareness among them about health, environment, and social responsibilities and to know the laws and rights of the people. Students also participate in cleanliness drives as part of the Swatch Bharath Abhiyan, health awareness, tree sapling plantation, and environmental awareness campaigns in the selected villages. The institution conducts various non-academic activities which align with the academic objectives while promoting the holistic development of students. This includes exposure to international cultures, social and interpersonal skills, environmental values, communal justice, leadership qualities, teamwork, strategic communiqué, ethical values, and the use of technology and tools for the betterment of society. Recognition from the authorities gives moral support to the students to run the campaign with increased vigour.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JB INSTITUTE OF TECHNOLOGY
Address	NH-72, Village Shankarpur, Chakrata Road, Dehradun, Uttarakhand - 248197
City	Dehradun
State	Uttarakhand
Pin	248197
Website	www.jbitdoon.edu.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Director	Dr. P. K. Chaudhary	0135-2698896	8449199992	-	director@jbitdoon.com
IQAC / CIQA coordinator	Sandeep Kumar Chaudhary	0135-2698880	9927016204	-	jbit.director@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

State	University name	Document
Uttarakhand	Uttrakhand Technical University	[View Document](#)

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	02-05-2023	12	

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	NH-72, Village Shankarpur, Chakrata Road, Dehradun, Uttarakhand - 248197	Rural	7.7	21920

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Department Of Computer Science And Engineering, Computer Science and Engineering	48	Twelfth	English	180	143
UG	BTech,Department Of Electronics And Communication Engineering,Electronics and Communication Engineering	48	Twelfth	English	30	2
UG	BTech,Department Of Mechanical Engineering, Mechanical Engineering	48	Twelfth	English	30	7
UG	BTech,Department Of Civil Engineering,Civil Engineering	48	Twelfth	English	60	5
UG	BTech,Department Of Electrical Engineering,Electrical Engineering	48	Twelfth	English	30	5
UG	BTech,Department Of Artificial Intelligence	48	Twelfth	English	30	28

	And Machine Learning,Artificial Intelligence and Machine Learning					
PG	Mtech,Department Of Computer Science And Engineering, Computer Science and Engineering	24	Graduation	English	24	7
PG	MBA,Department Of Management,	24	Graduation	English	60	26

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	7				13				50			
Recruited	7	0	0	7	12	1	0	13	29	21	0	50
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				25
Recruited	20	5	0	25
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				23
Recruited	16	7	0	23
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers

Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	0	0	4	1	0	0	1	0	13
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	8	0	0	29	20	0	57
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers

Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

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Part Time Teachers									
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	154	331	0	0	485
	Female	35	47	0	0	82
	Others	0	0	0	0	0
PG	Male	13	22	0	0	35
	Female	11	7	0	0	18
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

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Provide the Following Details of Students admitted to the College During the last four Academic Years

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	12	2	4	10
	Female	1	0	1	2
	Others	0	0	0	0
ST	Male	0	5	0	1
	Female	0	0	1	0
	Others	0	0	0	0
OBC	Male	35	18	18	27
	Female	8	8	1	2
	Others	0	0	0	0
General	Male	87	50	69	100
	Female	20	16	1	10
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		163	99	95	152

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	JB Institute of Technology is affiliated with and follows the VMSB Uttarakhand Technical University curriculum which integrates courses in Engineering, Humanities, Management, and professional Ethics along with core courses. Value-added courses are conducted to enable students to take up multidisciplinary courses. An Open Elective System therefore facilitates to transformation itself into a holistic interdisciplinary curriculum which allows the students to take up interdisciplinary courses and thereby credits are easily transformed. Our institution has the vision of setting a benchmark for the education providers in the field of Engineering and Management and providing quality technical

	education that fosters the spirit of learning and research through an innovative synergistic model of education that promotes academic excellence, scientific pursuit, and professionalism. The institution is keen in promoting multidisciplinary approach among the student community thereby facilitating the young minds to solve the day to day societal problems. Multidisciplinary activities are promoted by the various clubs formed with initiation of the students. These club plans events such as workshop, guest lecture, project expo, in the college.
2. Academic bank of credits (ABC):	The Academic Bank of Credits (ABC) is relatively new concept put forward in the NEP 2020. The Academic Bank of Credits (ABC) system is a flexible and student-centric approach to managing academic credentials. It allows students to accumulate credits for various learning experiences, which can be transferred and applied toward their academic requirements. Although the process of ABC implementation is in progress, the students are allowed to credit a maximum of two online courses, subject to a maximum of six credits. These courses are also chosen from SWAYAM/NPTEL platform. Academic Bank of Credits is essentially a credit based, and highly flexible, student centric facility.
3. Skill development:	Improving the quality of education for students in engineering and management courses involves a combination of academic, technical, and soft skills development. JB Institute of Technology has incorporated a comprehensive set of skill development programs that can uplift the quality of education as Project based learning (PBL), Internships, Industry-Academia Collaboration, Soft skills development programs, Entrepreneurship Programs, Case Study Analysis, Industry Visit, Guest lectures from Industry Experts and Ethics and Corporate Social Responsibility (CSR) Programs.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	The adoption of Indian culture has been given prime importance as part of students' holistic development in JBIT. Special training on YOGA, NSS and YRC has been included as part of the Institute's regular mainstream activity. The institution conducts number of awareness programs in association with NSS and YRC so that proper awareness is created among the students on environment, sustainability, energy conservation so as to make the students a socially

	responsible citizen. The pedagogical approach adopted by faculty includes course delivery in both vernacular language and English. Value-added courses on based on the philosophies of Indian Knowledge System is also planned.
5. Focus on Outcome based education (OBE):	Outcome-Based Education (OBE) is an educational approach that focuses on defining the desired learning outcomes first and then designing curriculum, teaching methods, and assessment strategies to achieve those outcomes. It's great to hear that JB Institute of Technology in Dehradun emphasizes OBE. The inclusion of value-added courses, an open elective system, and personality and character development programs reflects a commitment to providing students with a well-rounded education. By emphasizing Outcome-Based Education, JB Institute of Technology is likely to produce graduates who are well-prepared for the challenges of their chosen fields. This approach ensures that education is not just about completing courses but about achieving tangible and relevant learning outcomes that are essential for success in the professional world.
6. Distance education/online education:	JB Institute of Technology is fully equipped to embrace the new norm of online education. Online education has become operational and widely adopted in the wake of Covid-19 pandemic. For the convenience of students, during the lockdown period due to the COVID-19 pandemic, both faculties and students adopted online learning. The adoption of online learning through platforms like Microsoft Teams, Google Classroom, and Google Meet indicates a commitment to providing continuity in education while prioritizing the safety and well-being of students and faculty. Blended learning has been a widely accepted and promoted pedagogical approach in JBIT. By maintaining a strong online education infrastructure and continually seeking feedback for improvement, JB Institute of Technology can provide a resilient and effective learning environment for its students, whether in-person or online. This adaptability ensures that education remains accessible and impactful in various situations.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	JB Institute of Technology has instituted an Electoral Literacy Club (ELC) and ensures its effective functioning with the total involvement of our students and active coordinators. Through various activities, the electoral process of registration and voting is familiar among students.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	We have both the faculty and student members as coordinator's, appointed by the college and it has its own representatives. The functions of this club are done through involving student participants in various awareness programmes. ELC includes the members as listed below: 1. Student Coordinator 2. Student Members from each department 3. Faculty Coordinator The Club educates students through Mentors for better outcomes. The club also encourages students to take part in outreach programs conducted and show through social responsibilities as this will help develop their skills and confidence. Our students and staff have actively participated in many such events.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Every year the club conducts seminars to help students know about their rights and encourage them to exercise those rights by participating in the elections. The Electoral Literacy Club has actively involved in various innovative activities to encourage the students to use their voting rights and spread awareness about the importance of voting among the general public in association with NSS. The Club has actively involved the students in various innovative activities to encourage the students to use their voting rights and spread awareness about the importance of voting among general public under privileged sections of society especially disabled persons, senior citizens, etc
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Every year, students are encouraged to undertake projects in reaching out to the socially deprived. Faculty members and students are encouraged to know about Data Analysis which will help to research on betterment of the election process. The club ensures dissipating knowledge about Electronic Voting Machines (EVM). ELC in coordination with our College NSS team has been creating awareness among the public through the display of posters and by participating in campaigns as per the direction of

	the local bodies
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The club ensures that Voter identity card is arranged for all students and staff members. The club guides the students and faculty members about protocols needed for the application of voter ID cards and their follow-ups. It periodically participates and assigns events to create awareness of the importance of voting, through various programs like rallies, talk sessions, and by conducting seminars.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
541	502	582	669	655

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 103

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
55	52	50	52	48

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
331.33	192.76	158.82	252.01	255.56

02-03-2024 12:44:34

File Description	Document
Upload Supporting Document	[View Document](View%20Document)

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

The effective implementation of the curriculum of the various approved programs as prescribed by its affiliating university is ensured by the institute through a well-planned and documented process. It ensures an excellent, effective, and systematic procedure for the delivery of curriculum in all its programs with an objective to make its students skilled and employable through holistic education. The institute not only translates the prescribed syllabus but also beyond the curriculum with respect to contemporary industrial and other requirements.

The institute prepares its academic calendar in accordance with the academic calendar of the affiliating university and schedules its programs of academic and non-academic nature for each semester. The contents of the syllabus of every program are according to Outcome Based Education (OBE). Students are given the opportunity to opt for subjects of their choice from the list of open and departmental electives i.e. The CBCS system is followed.

The faculty members prepare Course Files consisting of details of lecture notes, tutorials, assignments etc based upon COs. The students are acquainted with the course objective & outcomes of each subject at the start of every semester.

Academic processes are streamlined through master and departmental timetables. The institute maintains the progress of students with respect of their achievements, academic excellence, and participation in other activities. Proper attendance of students is ensured by giving warnings to defaulters and phone calls to their parents.

The continuous assessment of students is evaluated and maintained throughout the semester by conducting regular CIE-1 (first internal examination) after completing 40 to 60 percent of the syllabus and after completion of the full syllabus CIE-2 (second internal examination) is conducted each semester before the semester end examinations. In each subject two sets of question papers for CIEs are prepared strictly according to CO/PO system and are duly checked and verified by PERC (Programme Evaluation Review Committee).

Accordingly, as per university guidelines, an internal assessment of all the students is prepared by the concerned faculty including the CIEs' marks, assignments evaluation, and attendance, and submitted online to the university.

The institute also organizes seminars, workshops, special/invited/expert lectures, group discussions, quizzes etc. including tutorials, projects (working & non-working) exhibitions, field trips, and industrial

visits in a well-planned manner.

Programs and lectures on soft skills and personality development are regular features in addition to the add-on courses. Experiential learning of students through Flip classes, Participative learning, and problem-solving methods are also in place for effective curriculum activities. ICT including Wi-Fi facility supplements the intellectual teaching in the institute

The feedback collected from all stakeholders like students, teachers, alumni, employers. gives accountability about the progress and completion of the curriculum and other facilities provided to the students.

Some faculties are also members of various bodies of affiliating universities like BOS, BOE, academic council etc., and contribute to curriculum reviews, assessment and evaluation, examination reforms etc.

File Description	Document
Provide Link for Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 15

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 17.29

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
81	169	129	44	87

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

The visionary approach of the institution for holistic development of students is to mould them to be responsible technocrats by creating awareness among them towards professional Ethics, Gender, Human Values, Environment and Sustainability issues in addition to teaching of affiliating university prescribed curriculum in classes. The institute also organises expert lectures, invited talks and motivational speeches in these areas.

Human Values and Professional Ethics:

The institute recognizes importance of value/outcome based education. Courses related to Human values and Professional ethics included in the curriculum are Human Values (TOE-07), Principals of Management {BOEC 605 (A)}, Principals of Managements (TCE-606), Value Engineering (TOE 10), Ethical Hacking {(BOCS-704 (C)}. Students from more than 17 states of our country and nearby foreign countries are enrolled in the institute with diversity of culture, social set up, language and other parameters.

Awareness programs are also organized by Departmental clubs , YRC and NSS units of the institute on different social and health issues in the institute as well as in camps organized in adopted villages as outreach social activity. Blood donation camp is an annual feature of the institute in which large number of students donates blood that inculcates social human values among students.

Gender:

The institute is committed to inculcate the civic sense and virtue highlighting issues related to the dignity of women at work place i.e. a concern of gender sensitivity. It is promoted through discussions, debates and lectures regularly held in the institute on women rights, female foeticide, gender based violations, dowry system, women health etc.

The institute has established an Internal Compliance Committee (ICC) for the women (female staff & girl students) to encourage and motivation as well as to redress any complaint regarding women in the institute. Girl students are members in almost all committees constituted in the institute.

Constitution of India (AHT-009), Ancient Indian Culture (TOE 06), Universal Human Values-2 (BHUT 401) etc. have been incorporated into the curriculum. There are specific which emphasize on equal opportunity for women and promote Gender values in the society and workplace.

Environment and sustainability:

Environmental *sustainability is the responsibility of all to conserve natural Resources and protect global ecosystems to support health and wellbeing,* Environmental studies (TES-101/201/BEST 101) is a compulsory qualifying subject at the under graduate level as course curriculum for all the students of B.Tech. In addition other courses are Environment and Ecology {BMET-804 (B)}, Energy and Environmental Engineering-401/402, BCET/BAST-401), Environmental Engineering-I & II (TCE 405 & 505). Courses like Environmental Impact Assessment {BCET 504(C)}, Environmental Management & sustainable Development {BOEC 605(B) & TCE-808} focus exclusively on environmental sustainability. Quality System & Management (TOE-08) deals with the documentation required for quality enhancement. The volunteers of Departmental Clubs, YRC and NSS units are practically engaged in environmental saving practices.

To develop skills for entrepreneurship development, impart professional ethics and managerial skills, courses like Entrepreneurship Development Program (TOE-05), Innovation and Entrepreneurship {(BOET-504(D)}, Human Resource Management (TOE-08 & TOE-13), Human Computer Interfacing {(BCST 703 (A)} are part of curriculum.

File Description	Document
Provide Link for Additional information	[View Document](#)

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 67.84

1.3.2.1 **Number of students undertaking project work/field work / internships**

Response: 367

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 43.07

2.1.1.1 **Number of seats filled year wise during last five years (Only first year admissions to be considered)**

2022-23	2021-22	2020-21	2019-20	2018-19
163	99	95	152	150

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
384	324	264	264	294

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 28.1

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)**

2022-23	2021-22	2020-21	2019-20	2018-19
29	17	14	29	29

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
105	89	73	73	80

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 9.84

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The Institute organizes various Faculty Orientation Programs on Pedagogical initiatives to improve teaching learning process through innovative methods. As an active institutional practice topics of relevance from modern Pedagogy are included in the course plan by the faculty

Teaching- Learning:

Student centric method deals with all the requirements of a better teaching- learning process. The institute has an explicitly laid out academic calendar that includes working days, details of major events, CIEs and semester end exams. Problem-solving techniques and interactive learning are both a feature of student-centered learning.

Add-on/Certificate courses, Guest lectures, Group discussions, design projects, workshops, conferences, seminars, industrial visits, major projects, and other activities are well planned in accordance with the

Academic Calendar.

Experimental/ Practical Learning:

1.Project based Learning

Our faculty inspires Students to take up projects related to societal interests bringing technical solutions to fair practices of the Modern World. Students are motivated to participate in Dehradun International Science and Technology Festival (DISTF), University level project contests and Smart India Hackathon (SIH).

2. Internships / In-plant Training

Our Students are motivated to undergo Internship during Summer/Winter Vacation to have clear insight about the practical applications of technology and obtain fair knowledge with the real-world problems.

3. Practical Sessions

Our full-fledged laboratories are utilized for exhaustive learning of curriculum based practical sessions engaging the students to practice Experiential Learning. Many laboratory courses have been conducted during the academic year 2022 - 2023.

4. Field Works

Our Students are exposed to ideological ethical learning process wherein they get to know about the impact of the environmental behaviour and sustainability practices. Students are required to visit industries regularly at least once in a semester.

Problem solving Methodologies:

As a Mentor, faculty members support students in a variety of unique activities and guide them to achieve better achievements.

- Faculty supports students in the appropriate way to overcome academic and personal concerns, and every effort is made to ensure academic mentoring of students and offer them with a better teaching learning environment.
- Quizzes, project work, and questions framed in the question paper help students improve their analysis and reasoning skills**.**

Participative Learning:

- **Internships, Projects, Industrial Visits-** Enhancing the managing skills, communication skills through practical exposure of the industry
- **Group discussions and various competition-** Enhance the communications and discussion skills
- **PDP Classes**- Enhance the personality, aptitude and reasoning skills
- **Extension Activities** help students to increase their ethics values

ICT-Enabled Tools and Online Resources:

- **Learning Management Systems (LMS):** Platforms like ERP, MS Team, and Zoom use by the faculties to facilitate course management, content delivery, and interaction between teachers and students.
- **Online Courses and MOOCs:** Our faculties motivate students to do MOOCs (Massive Open Online Courses) via access to platforms like NPTEL, Coursera for certification courses.
- **Virtual Labs and Simulations:** Students use Virtual labs and simulations to offer practical and hands-on learning experiences, even when physical labs may not be accessible

File Description	Document
Provide Link for Additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 **Number of sanctioned posts year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
55	52	50	52	48

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 23.74

2.4.2.1 **Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
16	11	11	12	11

File Description	Document
Institution data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

VMBS Uttarakhand Technical University provides the Academic schedule which includes timelines for internal assessment and uploading of internal marks in the University web portal.

ASSESSMENT SCHEDULE:

Based on the academic schedule provided by VMBS Uttarakhand Technical University, the Institute prepares the academic calendar which includes dates for internal examinations. University guidelines are followed for frequency and conduct of the CIE-1 & CIE-2. The academic calendar is circulated for the information of the faculty and students during the commencement of each semester. In adherence to the Academic Calendar the examination cell provides guidelines for preparation of question papers and disseminates detailed Time-table in time for smooth conduct of examinations.

QUESTION PAPER SETTING:

Structured question papers are framed by the faculties in accordance with the Bloom's Taxonomy (Remember, Understanding, Apply, Analyze, Evaluate, and Create) contemporary to the COs. Two sets of question papers are prepared. These question papers are scrutinized by the PERC committee in the department and submitted to the examination cell through Head of the Department.

TIME BOUND EVALUATION:

The examination is conducted as per scheduled timetable and the answer sheets are evaluated meticulously by the respective course faculty within three days of the conduct of examination. Evaluated answer sheets are shown to the students. The respective department HoDs audit the answer scripts and analyze the result. The examination cell prepares the result analysis and displays the same in department

notice board duly approved by the Controller of Examination and Head of the Institution. The faculty enters Internal Marks in institute's ERP. As per the schedule given by VMBS Uttarakhand Technical University, Internal Assessment marks are uploaded in the University Web portal UMS.

GRIEVANCE REDRESSAL:

Grievance related to evaluation and uploading marks in the web portal are handled effectively, where in scope for re-evaluation and necessary corrections thereof are registered. Students are informed well in time at the beginning of the semester by respective HODs about the transparent policies in the examination process. Students are allowed to register their grievance in the grievance register placed in the examination cell or through web portal uktech.ac.in. Actions on grievance related to evaluation and syllabus are addressed within the stipulated time. A Candidate can apply for photocopies of semester examination answer scripts for verification of marks. Subject teacher evaluates the answer scripts and recommends possibilities of re-evaluation for deviations if any. Records of all communications with university are done through Examination cell. The Candidates can also apply for challenge evaluation if re-evaluation is unsatisfactory. Genuine grievance related to question paper, deviation in syllabus and discrepancy in mark-sheets received from the students through the Examination cell are conveyed to the University by Head of the Institution. Communication on student's grievance with the University are filed and preserved in the Examination cell.

File Description	Document
Provide Link for Additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

The institution maintains an up-to-date section on its website where the COs, POs for each program are prominently displayed. This allows prospective students, parents, and other stakeholders to access this essential information easily.

OUTCOME BASED EDUCATION:

The institute follows an Outcome-Based Education (OBE) approach in the assessment and evaluation process. Institute processes are typically designed with a focus on measuring the attainment of learning outcomes or Institute competencies.

PO, CO&PSO:

The departments prepare Program Specific Outcomes (PSOs). Course Outcomes (COs) are set after

ellaborate discussion in the PERC taking into considerartion of COs prescribed by the affiliating University. However, the institute adopts standard Programme Outcomes (POs) stated by washington accord and well recognised by NBA that articulate the knowledge, skills, and competencies that students are expected to acquire by the end of their programs. The display of outcomes helps teachers and students internalize the purpose and process of teaching learning.

DISPLAY OF CO, PO:

The outcomes are displayed in Website and in Department Notice Board. Classrooms, corridors, Labs, Lab records and course file prepared by the faculty members. Course outcomes and their CO-PO articulation mapping matrix are stated. This is in response to defined needs, allowing greater academic versatility and improved employability, entrepreneurship, and skills of students. In accordance with OBE, the Program's PEOs are designed in line with the Institute's Vision and Mission. All Programs are formulated with POs/PSOs and COs.

Publishing and dissemination of PEOs, POs/PSOs and COs:

Digital Communication:

- PEOs, POs/PSOs and COs are published on Institute Website

Print Communication:

- Course file of each Semester lists the COs
- Each Lab manual contains POs/PSOs and its COs
- POs/PSOs are displayed in the Departments

Verbal Communication:

- The HoDs explain the importance of POs and PSOs along with the evaluation pattern for course outcomes to all the students during the Orientation Program
- Discussion with the faculty and students

Attainment of CO/PO/PSO

Following assessment methods are used to compute the Course Outcomes for theory courses, laboratory courses and project works etc.

1. Internal Assessment
2. External Assessment

Also, the institute uses Direct as well as indirect tools for assesment of the same. In the process to compute final attainment of CO/PO/PSO, 80% weightage is given to the Direct and 20% to the Indirect. Also, 60% weightage is given to the External Assessment and rest 40% to the Internal Assessment.

JB Institute of Technology places a strong emphasis on transparency and effective communication of Programme Outcomes (POs) and Course Outcomes (COs). This multi-pronged approach ensures that students have access to these essential learning objectives through digital channels, printed materials, and

verbal interactions, ultimately facilitating a holistic and informed learning experience.

File Description	Document
Provide Link for Additional information	[View Document](#)

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

CO Attainment Calculation Process:

Assessment of the course outcomes is one of the essential components of outcome-based education (OBE). All COs of each courses are evaluated. The method or process used by the department to identify, gather, and prepare data for evaluating the accomplishment of program objectives (POs) and program-specific outcomes (PSOs) are called assessments. Achieving a normative outcome on reaching desired goals is known as attainment. The primary measure of attainment is the level of academic performance, as seen in test results. The course outcome attainment is calculated based on direct and indirect assessment methods.

Direct Assessment (CO) Methods:

Direct Assessment can be calculated based on external and internal continuous assessment methods. The External Assessment consists of the following criteria: end-term final examination, project work, Internship, practical final exam, etc., and the Internal Assessment evaluation is the continuous Assessment by different methods like assignment, Quiz, Internal lab report, and internal project work. Each Course has a specific course outcome mapped with program outcomes and setting of course outcomes attainment target based on the rubrics.

A threshold level is fixed based on the class average marks.

Rubrics:

If 50% of the students crossed the threshold level the Attainment Level is considered to be 1.

If 60% of the students crossed the threshold level the Attainment Level is considered to be 2.

If 70% of the students crossed the threshold level the Attainment Level is considered to be 3.

Direct attainment (CO)=Direct Internal (40%) +Direct External (60%)

Indirect Assessment (CO) Method:

Course End Survey: This survey was taken from students after their course commencement.

CO attainment = Direct attainment(80%) + Indirect attainment (20%)

PROGRAM OUTCOME ATTAINMENT CALCULATION:

DIRECT PO ATTAINMENT:

The department sets program outcomes as per the guidelines provided by the AICTE and NBA.

For the Engineering program, generally, twelve POs are set. For each Course, mapping of course outcomes and program outcomes on a scale of 1 to 3, 1 being slight (low), two being moderate (medium), and 3 being substantial (high). The course outcomes written and their mapping with POs are reviewed frequently by a committee of senior faculty members before they are finalized. After mapping course-wise, the average of all courses in a particular program is calculated.Direct PO Attainment is calculated as per the formula mentioned above. The Direct PO attainment is equal to the average CO attainment of all courses.

INDIRECT (PO) ATTAINMENT:

 Indirect PO Attainment is collected from the students after completion of the program in terms of the program exit survey format based on all PO's.

Overall PO attainment level= Direct PO attainment (80%) + Indirect PO attainment by Program End survey (20%)

File Description	Document
Provide Link for Additional information	**View Document**

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 100

2.6.3.1 **Number of final year students who passed the university examination year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
145	145	194	177	145

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
145	145	194	177	145

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.98

File Description	Document
Upload database of all students on roll as per data template	[View Document](#)

Criterion 3 - 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 last five years (INR in Lakhs)

Response: 17.9

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

2022-23	2021-22	2020-21	2019-20	2018-19
17.3	0.6	0	0	0

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness   about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

In the picturesque state of Uttarakhand, nestled in the foothills of the Himalayas, JB Institute of Technology stands as a beacon of knowledge, innovation, and entrepreneurship. Established with a vision to empower individuals with the skills and knowledge required to excel in today's dynamic world, the institute has been instrumental in catalyzing the growth of the region.

JB Institute of Technology has truly created an ecosystem for innovation, embracing the Indian Knowledge System (IKS) and promoting the importance of Intellectual Property Rights (IPR).

The institute has been at the forefront of cutting-edge research and collaboration. The "Assembly of Ship with the Optimal Utilization of Machinery Resources and Space" project at Tehri lake, Uttarakhand in collaboration with S. N. Forestry Ltd., and Master Plan & Layout Design Of Myfair Highlands' at Mussoori Road, Dehradun exemplifies the institute's commitment to finding practical solutions to real-

world challenges.

The institute's cross inter-disciplinary approach, bringing together departments like Computer Science & Engineering, Mechanical Engineering, and Civil Engineering, showcases the institution's dedication to foster a holistic environment for innovation.

Moving towards a highly equipped technological era the Institute aims at creating an expansive ecosystem for recognizing and rewarding innovation. Our institute is an active member of the Institution Innovation Council (IIC) established under the guidance of Ministry of Education Innovation Council formerly known as MHRD since its inception. The institute has been closely monitoring, recognizing, recommending and conducting stipulated activities as framed by the Institution Innovation Council like IIC calendar activities, MIC driven activities, Celebration activities, Self-driven activities and National Innovation Contest. By encouraging the students faculty had been the driving force behind these exceptional performances.

Our enthusiastic R&D Cell very actively tracks, guides and coordinates students' activities encouraging them to perform research activities which can fulfill the societal needs.

JB Institute of Technology understands that knowledge is most impactful when translated into action. Hence, initiatives like the 'JOB Portal', aimed at providing HR services in Uttarakhand, in partnership with Hostcob Solutions Private Limited, demonstrates the institute's commitment to nurturing entrepreneurship and driving economic growth.

The Institute inducted Entrepreneurship Development Cell (EDC) running under the agies of C.V.Raman centre for research, ennovation and entrepreneurship, technically provokes the innovative thought process among students understanding the highest technological know-how available in the industry.

The institute organizes periodic workshops, seminars, interactions with entrepreneurs, investors, create a mentor pool for faculty and student innovators. Our Institute has well equipped laboratories to enable research learning process of student and faculties. Our well experienced faculties help the students in guiding them throughout the process of their course. Library provides oceans of opportunities to students and faculty to nurture during their academic term leading to a twilight of glittering career opportunities.

The institute's dedication to knowledge exchange extends to organizing national conferences and workshops. The "4th National Conference (NCRIETS-2022)" and the "Faculty Development Program (FDP) on Innovations & Entrepreneurship" are prime examples of JB Institute of Technology's commitment to providing a platform for academics and professionals to share their expertise.

File Description	Document
Provide Link for Additional information	[View Document](#)

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 45

3.2.2.1 **Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
10	4	8	14	9

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.36

3.3.1.1 **Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	0	0	2	31

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 5.39

3.3.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
327	19	60	60	89

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Through extension and social outreach programmes to benefit neighbourhood community, we sensitize the students to develop social values and moral ethos, thereby creating a holistic development and inference, spoken over for a period of time. The institute has various clubs like NSS, YRC, Eco Club, Vishvesvaraya Club, Tech-Know Giants Club, Technovation Club & ElectroTech Club, Mechnokriti Club, Corporate Social Responsibity Club and Mind Mantra - The Health Club to conduct various events for the benefit of neighbourhood community.

National Service Scheme (NSS)

NSS is a Student Cantered Service Scheme under the direction of Government of India, Ministry of Youth Affairs and Sports, aiming at voluntarily addressing social issues for the benefit of the society. Under NSS scheme, Unnat Bharat Abhiyans Activities, Swachh Bharat Campaigns, Remove Plastic and Save Earth, Dengue Awareness Programmes, Protection against Domestic Violence against Women, Viral Hepatitis, BETI BACHAO, BETI PADHAO, To Fight Against Dengue & Malaria, Road Safety, Fire Safety, Awareness Programmes on Earphones: Comfort or Problem etc. are conducted by the institute to benefit neighbourhood community.

Youth Red Cross (YRC)

YRC is one of the oldest and largest voluntary organizations with the highest membership enrolment. Our institute based YRC carries out large scale voluntary operations like conducting Medical Camp, Organ Donation, Child Healthcare & Hygiene, Blood Donation Camps, Prevent and Protect Women from Harassment, for the wellbeing of neighbourhood community.

Empowering the Community

Our institution has taken the initiative to empower the local community by organizing activities such as Women Empowerment in collaboration with the Uttarakhand Police in Sahaspur. This program not only raises awareness but also empowers women in the neighborhood community.

Environmental Awareness

Programs like Remove Plastic- Save Earth and Tree Sapling Plantation have sensitized students and the community about the importance of environmental conservation. These initiatives help in combatting climate change and promoting sustainable living.

Gender Equality and Education

"Beti Bachao- Beti Padao", and Importance of Girl Education programs have contributed to the promotion of gender equality and the importance of educating girls in society.

Health and Safety

Numerous health-related programs, such as Earphones: Comfort or Problem, Fire Safety Training, and Social Issues, have sensitized students and the community on issues related to health and safety, and the importance of fire safety.

Road Safety and Traffic Rules

Traffic Rules and Follow Traffic Rules programs have played a pivotal role in promoting road safety and ensuring that both students and the community adhere to traffic regulations.

Disease Awareness

Programs focusing on diseases like AIDS, Cancer, Dengue, and Malaria have helped raise awareness about preventive measures, early detection, including the importance of health.

Holistic Development

These extension activities have not only impacted the community positively but have also enriched our students' educational experiences. They have been sensitized to social issues, developed leadership skills, and gained a deeper understanding of their responsibilities as citizens.

File Description	Document
Provide Link for Additional information	[View Document](#)

3.4.2

Awards and recognitions received for extension activities from government / government

recognised bodies

Response:

The institution takes immense pride in its commitment to serving the community through a wide range of extension and outreach programs. Over the years, these initiatives have not only made a positive impact on the lives of the people they have touched but have also garnered recognition from various government and government-recognized bodies. These awards and accolades serve as a testament to the institution's dedication to social welfare and community development.

The institution's Youth Red Cross Unit organized an impactful program focused on women's empowerment and traffic rules in collaboration with the Uttarakhand Police's Sahaspur Police Station, Dehradun. This initiative earned the institution a prestigious award for its efforts in promoting gender equality and empowering women in the local community.

The institution's collaborative efforts with the local Kshetra Panchayat Vikas Khand in Sahaspur and Vikasnager were recognized with two distinct awards. One accolade was for their dedication to environmental conservation, specifically the campaign "Remove Plastic and Save Earth," and the other for their active participation in the "Beti Bachao, Beti Padhao" initiative, demonstrating the institution's multifaceted approach to community development.

Acknowledging the institution's efforts to promote traffic rules awareness, the Uttarakhand Police's Kotwali Vikasnagar presented them with an award. This recognition highlights the institution's commitment to ensuring road safety and adherence to traffic regulations in the local community.

In collaboration with Amar Ujala and Advanced ENT Clinic, the institution conducted an awareness program focusing on the use of earphones. Their dedication to addressing the impact of earphones on health earned them this award, demonstrating their commitment to the well-being of the community.

The Indian Red Cross Society recognized the institution for its exemplary efforts in addressing various social issues. This award reflects the institution's dedication to tackling critical societal challenges through awareness and education.

The institution received an award from Gram Panchayat Lakshmipur for its impactful campaign against addiction, Fire safety and Dengue Malaria. Gram Panchayat Ramapur Kala honored the institution for its fire safety training, Air Pollution awareness program and cancer awareness campaign.

This recognition underscores their commitment to combatting substance abuse and promoting a healthier lifestyle in the local community.

These awards and recognitions serve as a testament to the institution's unwavering dedication to the betterment of society. They also inspire and motivate the institution to continue its exemplary work in community development, outreach, and social impact, making a positive difference in the lives of countless individuals and communities.

The Institute's swachh bharat activities and its awareness programmes have created enduring results which has been an eye opener to all. Central government schemes like Unnat Bharat Abhiyan have also been given due importance and have benefitted neighbourhood villages.

Understating the importance of activities like distribution of food and essential to the local public the institute reached out to the houses during pandemic lockdowns. The Institute is stated as a reference point and has set higher values and standards of social service for which the Management, Faculty and Students painstaking efforts marks and indelible note.

File Description	Document
Provide Link for Additional information	[View Document](#)

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 32

3.4.3.1 **Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
10	6	5	5	6

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 17

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)	

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- **teaching – learning, viz., classrooms, laboratories, computing equipment etc**
- **ICT – enabled facilities such as smart class, LMS etc.**

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

JBIT Institution encompasses technologically driven and state-of-the-art infrastructure that is adequate in accordance with the requirements of curricula and guidelines of statutory bodies such as AICTE. Well equipped modern laboratories, ICT enabled classrooms and widespread computing resources are the eminent features of institute's infrastructure.

Following are the teaching learning, infrastructure and other facilities:

- The Institution has raised its infrastructure facilities with classrooms, laboratories, computer labs, mechanical workshop, departmental rooms, central library, Girls' common room etc.
- The institute has in all a total of 481 computers installed in different departments and Labs
- All classrooms are lecture theatre type, ICT enabled equipped with LCD projectors, white boards, spacious well illuminated and ventilated.
- Power back up facility is available in the institute with the help of two high power gen sets.
- Support facilities include 'Swami Vivekananda' Auditorium with a capacity of more than 250 persons and three Seminar halls with capacity about 120 persons each in addition to one conference hall.
- The ERP system at JB institute of technology is an important instrument for ICT-enabled learning. The study material is uploaded along with relevant videos and e-content on the LMS interface of the ERP system as a step towards improvement in teaching efficiency, curriculum learning resources, lesson plan, class time table, students' feedback, video lectures etc.
- The institute has fully Wi-Fi enabled campus.
- The Institution has a well furnished automated Library as information and data resource for its stakeholders that are updated regularly with the latest journals and Volumes of text and reference books. There are also installed 12 computers with high speed Wi-Fi internet facilities to access E-journals and E-books through DELNET and EBSCO resources and online.
- E-resources and remote access facility is available for students and faculties.
- It also has reprography facilities.
- The institute is committed to create an environment for holistic development of students by providing necessary facilities to enhance, develop and nurture self confidence and skills. Co-curricular and extra-curricular activities to participate in other activities scheduled in the institute.
- Institute has always supported sports and sports events and encouraged students to participate in tournaments at various levels. It provides best facilities for indoor and outdoor sports like

football, Cricket, Basketball, Volleyball, Table Tennis, Badminton, Chess and Yoga etc.
- The institute also hosts the different inter college tournaments in some games of affiliating university as directed by the university.
- The institute also has a well spacious and ventilated gymnasium equipped and fitted with latest sports equipments and especially provided with all equipments of weight lifting and power lifting in addition to several others.

File Description	Document
Provide Link for Additional information	[View Document](#)

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 30.56

4.1.2.1 **Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
132.83	29.84	30.55	71.61	99.04

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

Library is the heart-throb of the Institute which is working successfully on the road of development since the inception of the Institute.

The Institution has a well-furnished fully automated Library with an adequately rich collection of 3375 printed titles including 18850 volumes, along with e-books of 6887 titles, 66 journals, 1600 e-journals, and 74 periodicals (hard copies subscription) having digital transactions in all the cases; all systematically arranged. including text books, reference books, national and international journals. Competitive books, research journals and magazines are displayed open and freely available to all users. The institute has digital library well equipped with 12 computers with high speed Wi-Fi enabled internet facility to access information by the students and staff for their academic pursuits with an open access to e- books, e- Journal and other e-resources.

The Institute is using ILMS (Integrated Library Management System): LIBSYS for automation of the library that includes bar coding of books that can be accessed through online public access catalogue (Web OPAC). The key features of the module include single screen issue, return and renewal, book reservation facility including checking of books account etc.

In addition to E- content providers NPTEL and NDLI, the institute has also subscribed EBSCO & DELNET, as just a few of the many e- resources in the library as a part of digitalization:

- EBSCO-Engineering Core Collection

- DELNET membership - Full text and bibliographic resources available on the portal. Also provides inert-library load (ILL) services of books and articles to the member libraries.

- National Digital Library of India (NDLI) membership- All faculty and students can make use of free digital books and documents accessible in the nation's digital libraries .

- Web OPAC- The whole library collection is browsed and searched through Web OPAC.

- Open access-The system of open access is in practice in the library of the Institute that means completely transparent to users

- E-Books- Library of the Institute has subscribed 1600 EBSCO e-books

- Digital Services – The library caters digital services of the previous years' Question Papers, Syllabus and Newspaper clippings of very important national and international events including those of college activities and different occasions.

- Remote Access Facility-all the students and the staff of the institute can avail the facility to access e-resources subscribed by using remote access facility in addition to the general library facilities.

- Library Card -Every student and every employee of the institute has been issued a digitalized library card with unique identity number.

- There is a separate reading section for staff and the girl students

- One period has been allocated in the time tables for students of all the classes for library The library is also kept open even on holidays and Sundays before and during the university examinations.

- Library services:

1. New Arrivals are published in real time via OPAC

2. Exclusive section of the digital library.

3. Photocopy facility is available in the library

4. Library operations are based on bar-code technology

5. Library walk-in is managed through ILMS

File Description	Document
Provide Link for Additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

Institute has a fully enabled Wi-Fi facility, controlled by stringent policy and procedures, frequently updates its IT facilities including Wi-Fi. Users are expected to register their Particulars to get regulated access. Maintenance procedures and different policies like password change, safety, firewall and networking remains as a benchmark in our Institution. Periodical backup of all the systems with an interim change over facility enables data protection during backup.

The institution features a fiber-optic cable network infrastructure that connects all buildings and blocks in various laboratories with around 21 LAN switches, 26 Wi-Fi points, and 481 PCs.

The ICT equipments includes multimedia projectors, public address systems, and a staff biometric attendance module. CCTV cameras are installed for surveillance. In order to meet the campus needs for academic and research pursuits, the institution enhances its internet services and infrastructure regularly.

Internet connectivity in all computer labs, class rooms and hostels, Wi-Fi enabled campus, Reprography, Projectors in all classrooms, Digital Pannel in Smart Classroom and Audio-Video enable classroom.

JBIT has dedicated 10 computer labs with 342 computers of Intel-i7, Intel-i5, Intel-i3, Intel G645, Intel Dual-core processors. JBIT has Microsoft Campus Agreement for Windows and other software for the latest configuration of hardware. The software is up to the mark as per the specification of the affiliating body. 64 new Computers were purchased in March as per requirements and specifications (i5, 10 Gen, 8GB RAM, 240 SSD) provided by the Department.

In March 2022, the institute increased the bandwidth of its internet leased line (1:1) from 50 Mbps to 100 Mbps. The bandwidth was expanded to 155 Mbps in May 2023.

The institute has two generators, one of 125 KVA and the other of 63 KVA. On campus, UPS are also accessible that employs online UPS for continuous power supply to maintain Wi-Fi connections.

Considering numerous web security factors, JBIT Campus has secured the Internet UTM **Hardware Firewall**, which was upgraded in 2022 with a capacity of more than 400 concurrent users. The Institute's dedicated server room has two servers for managing bandwidth and **firewalls**.

106 CCTV cameras are strategically placed throughout the campus, keeping the area under electronic monitoring 24 hours a day. This helps to maintain campus security.

LCD projectors - There are LCD projectors throughout the institute's classrooms, seminar rooms, auditorium, and laboratories.

Email IDs: In 2020, JBIT upgraded Google workspace and staff use the Institute Email IDs (...@jbitdoon.edu.in).

A high end rack server systems is used for web applications, video streaming, academic activities and other activities. Campus internet traffic is monitored through the high performance firewall for any possible spam, VIRUS and intrusion detection.

File Description	Document
Provide Link for Additional information	[View Document](#)

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 1.33

4.3.2.1 **Number of computers available for students usage during the latest completed academic year:**

Response: 406

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 27.32

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
98.40	56.16	35.35	65.36	69.91

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 74.3

5.1.1.1 **Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
445	349	582	445	370

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

1. *Soft skills*
2. *Language and communication skills*
3. *Life skills (Yoga, physical fitness, health and hygiene)*
4. *ICT/computing skills*

Response: A. All of the above

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 69.04

5.1.3.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
374	400	332	502	428

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Response: B. 3 of the above

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 72.21

5.2.1.1 **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
105	114	143	113	107

5.2.1.2 **Number of outgoing students year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
145	145	194	177	145

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 6.25

5.2.2.1 **Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)**

2022-23	2021-22	2020-21	2019-20	2018-19
5	5	2	2	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

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 last five years

Response: 40

5.3.1.1 *Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years*

2022-23	2021-22	2020-21	2019-20	2018-19
10	17	4	4	5

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 16.8

5.3.2.1 **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
20	21	06	17	20

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

Response:

A registered Alumni Association functions in the institution with grandeur and meets periodically actively contributing to the development of the institution. The association is registered with name "JBIT Alumini Society" under the Uttarakhand Societies Registration Act, 1860 with Registration No. UK0600352023011098, Dated: 08/05/2023, Dehradun, Uttarakhand.

The renowned alumni helps the institution in delivering guest/expert lectures, motivational talks, placement advices, career guidance and information on current industrial requirements. The institution has added quality engineers and entrepreneurs to technical pool of the country. Many of the alumni are also pursuing master degree from reputed academic institutions in India and abroad. Alumni have brought laurels to the institution by securing ranks and Gold & Silver medals in the University results.

Members of the alumni association visit the institute at regular intervals providing valuable inputs to the students of different disciplines.

Association members provide meticulous input on industrial practices which aid the departments in offering Add on Courses. Members of the alumni association actively participate in the Internal Quality Assurance Cell offering timely inputs to better institutional practices.

A portal is developed and maintained by Alumni members. They register their details in the association portal and also extend financial support for needy students.

Objectives of the JBIT Alumini Society:

- To communicate on regular basis with the members of the Alumni and the Institute keeping mutually informed the developments of the Alumni association as well as the Institute.
- To foster more extended relationships between alumni and present students, staff and others associated with the College.
- To organize, Seminars to the students to make them aware of the updated technologies with the guidance from alumni.
- To encourage Alumni to act as ambassadors of the Institute and assist in the further development of the members and the Institute.
- To promote and encourage friendly relations between all members of the alumni, an interest in the affairs and well-being of the Institution.
- To initiate and develop programs for the benefit of the alumni.
- To guide and assist alumni who have recently completed their courses to obtain employment and engage in productive pursuits useful to society.

The Following are the activities carried out with the help of Alumni:

Curriculum Enrichment: Alumni are involved for curricular gap identification and development of value added course module.

Interactive Sessions: The alumni association helps in holding interactive sessions to motivate current

students about the employability and educational opportunities abroad.

Mentorship: Alumni can play an active role in voluntary programs like mentoring students in their areas of expertise. To utilize the rich experiences of old students of the Institute for the benefit to assist the students in securing suitable jobs.

Placements/ References: The alumni network of an Institute is one of the sources of placement opportunities to the students.

Administration: Alumni are members in IQAC and provides inputs for imparting quality system adaptive to recent trends and requirements of industry.

File Description	Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The Institute profoundly possess an effective Vision and well planned Mission which acts as driving force. The Governance of our college is in line to the Vision/ Mission mentioned in page 1 of SSR.

Jai Bhagwan Educational Society is a philanthropic organization with high moral values which has established various Educational Institutions in which JB Institute of Technology forms a part. The governance and leadership is in accordance with vision and mission of the institution with a well constituted council and leadership. The Board of Management consist of various experts nominated by VMSB Uttarakhand Technical University and the State Government.

NEP Implementation:

JB Institute of Technology is at the forefront of implementing the National Education Policy through the guidelines of the affiliating University. The institution recognizes the importance of aligning its practices with the NEP's principles of holistic education, flexibility, and multidisciplinary learning. The NEP's emphasis on research and innovation is reflected in the institution's strategic plan and the establishment of an CV Raman Centre of Research and Innovation.

Sustained Institutional Growth and Decentralization:

The Institute's administration scrupulously functions with the leadership of the Director, Head of the Departments, Convenors and co-convenors of different committees, Faculty and non-teaching staff in line with the moral and societal values ensuring impart of quality technical education. The heads and the regulating committee continually affirm the alignment of the vision and mission of the Institutional practices.

A well-defined organizational structure with a definite stride of the leadership ensures better decision making with well-planned committees and positions. Précised, well debated policies and procedures effortlessly govern the Institution.

Participation in the Institutional Governance

Stake holders actively participate with the encouragement of the Institute and are involved in the process of decision making and implementation of strategies in effective manner.

The faculty members are involved and participate in the functioning of Statutory and Non statutory

bodies such as Board of Management, Finance Committee, Disciplinary Committee, Anti Ragging Committee and other Institutional level committees.

Perspective Plans: A 360 degree perspective plan is developed by a IQAC which considers important factors i.e. structure, mechanisms and stake holders within the system and their capacity to act, their creativity, the collaboration between them, their confidence, and the coherence of the action with other initiatives. The objective is to ensure the quality and imbibe the culture of excellence and focus on the time-bound goals set for academic, administrative, research and development activities. The entire process is based on participative approach wherein the faculty members, and other stakeholders are involved in the development of plans and its efficient execution. The summery is as follows

Sr. No	Strategic Plan
1	Enhance engagement with Society
2	Diverse Student learning environment
3	Enhance engagement with Industry
4	Improve internal support systems
5	Enhance alumni engagement
6	Contribute to Sustainable Development Goal
7	Implementation of NEP
8	Academic Autonomy and Online Programs

File Description	Document
Provide Link for Additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

The institutional perspective and strategic plan was effectively deployed and the some of the following outcomes were are as follows:

Local & Nation Building (Extension Activities): The institute is committed to uplift the socio-economic conditions of the nearby surrounding villages through various activities of departmental clubs, NSS and YRC in education, social awareness, legal awareness, health, hygiene, sanitation, digital literacy and gender sensitization etc. The institute motivates faculties and students to participate in various activities that are beneficial for the upliftment of the society.

Environment and Sustainability: To promote clean and green zone contributing to earth's sustainability, the institute done the Green, Energy and Environment audit.

Collaborations: The institute encourages collaborations that provide students and faculty exposure to academic opportunities like internships, training, and job placements, among others. Enhancing faculty members' prospects for research and development to seek funding and resource sharing with businesses and organizations is the other important part of collaboration.

Academic Development: The quality of teaching and learning is in line with the Institute Vision and Mission of providing students with better theoretical and practical skills. The institute has deployed the OBE and CBCS systems as per the guideline of affiliating university

Functioning of the institutional bodies

The institution has an effective and efficient administrative setup. Well drafted hierarchical practices are followed and reporting systems work bottom up. The Board of Management administers the overall functioning of the institute. Scope of empowerment and defined regulatory norms bound the duties of different designated bodies. Periodical evaluation is done by debating and discussing on propagated administrational systems and necessary addition and correction are done.

Board of Management: The Board of Management is constituted with the guidelines of AICTE consists of experts nominated by VMSB Uttarakhand Technical University, State Government and Jai Bhagwan Educational Society.

It is imperative to emphasize the functioning of the institution are well coordinated and supported by different committees and Cell like Internal Quality Assurance Cell, Discipline Committee, Academic Committee, Grievance Redressal Committee, Anti ragging Committee, Clubs etc.

Appointment and Service Rules

The Institute follows the rule and regulation of the AICTE, Affiliating University and the Board of Management of the Institution.

All regular Institute appointments are based on the recommendations of a Selection Committee formed for the purpose.

No appointments in the Institute shall be done without the recommendations of the Selection Committee and the approval of the Chairman.

Classification of appointments: The institute is appointing and classifying the various appointments done/to be done under the following categories:

Appointment(s) on Probation against Permanent Post(s): All appointments in the cadres of the teaching and non-teaching staff against permanent Post(s) are initially done on a probation period of 06 months.

Confirmation: Employees of the Institute who are found to be fulfilling the assigned targets, work and conduct have been as per the expectations of the university parameters; are confirmed to the Post to which they have been appointed after completion/extended period of the probation.

File Description	Document
Provide Link for Additional information	[View Document](#)

6.2.2

Institution implements e-governance in its operations

1. **Administration**
2. **Finance and Accounts**
3. **Student Admission and Support**
4. **Examination**

Response: A. All of the above

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

The institute believes in the development of the organization envisaging through betterment and effective welfare measures of the faculty and staff. The institute extends functional and regulatory schemes for Leave, On-Duty, Medical besides supporting the staff for higher education, R&D, Sponsored projects, Research & Publications through incentive schemes. JB Institute of Technology facilitates faculty & staffs for attending external workshops and conferences. These welfare activities are extended to all the employees through registrar office for motivating and promoting the efficiency in them.

The Institute has a welfare mechanism in place, for teaching and non-teaching staff. The various welfare schemes are:

1. Support to pursue Higher Education – Ph.D. Full Time / Part Time and PDF.

2. Financial assistance to attend Conference / FDP / Workshop.

3. Cash incentive for Publications, and R&D work.

4. Hostel accommodation & Mess facilities to Faculty members.

5. Residential Quarters (2BHK) facility for Faculty.

6. Medical insurance for Faculty & Staff members

7. Effective HR policy

Faculty Performance Appraisal and Development System:

The institution follows the self-appraisal system to evaluate and enhance the performance of faculty members. The performance score is calculated for 50 points. The guideline for Faculty Performance Appraisal is also given to the faculty. The performance review of individual faculty provides an opportunity for continuous improvement and taking remedial actions.

The purpose of the evaluation is given as:

i) Evaluate and promote quality in the teaching/learning process.

ii) Meet the educational requirements and expectations of student's community

At the end of every assessment year, faculty appraisal is organized with the approval of management.

The self-appraisal form is collected for evaluation from the faculty at the end of assessment year.

Incentives and Rewards are given to the faculty based on their performance considering Academic Contribution, Research Contribution, Professional Upgradation, Sponsored/ Consultancy projects.

Appraisal form is collected from each faculty at the end of assessment year and it is consolidated by Head of the Department. The relevant actions are based on outcome of the report. If low performance of the faculty is observed, proper mentoring will be given to the faculty by Head of the Department and Director to strengthen their academic and research contribution etc.

Based on the self-appraisal by the faculty the Head of the Department validates the data given by faculty against evidences produced. The merit of the faculty is categorized on different levels based on their performance. Accordingly appreciation and increments are provided to the faculty.

File Description	Document
Provide Link for Additional information	[View Document](#)

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 78.99

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

2022-23	2021-22	2020-21	2019-20	2018-19
44	33	49	36	41

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 96.57

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), *Management Development Programmes (MDPs)* **professional development /administrative training programs during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
102	77	83	78	82

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
48	32	33	33	34

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Jai Bhagwan Educational Society is a philanthropic organization with high moral values which has established various Educational Institutions in which JB Institute of Technology forms a part. The mobilization and optimal utilization of resources is in accordance with the objective of the institution's management and a well constituted council and leadership which conducts financial audits regularly.

Mobilization of funds is mostly warped mainly through the sources of tuition fees. The institute also receives funds through scholarships from the State. The providence of the philanthropic trust helps in providing funds to the institute whenever in need. The hostels are judiciously maintained with the hostel fee collected from the students.

Different departments of the institution bring out their annual budget considering the expenses of the full financial year, expenses on different heads like periodical maintenance, upgradation of machinery, infrastructure and building, laboratory equipment, purchase of books and journals for library, labour, salary expenses etc., are taken into account.

The budgets are verified and sent to the approval of the Management by the strongly constituted finance committee headed by the Director. Intermitted audit processes ensure that the expenses are well within the limits of the allocated budget for the institution. The finance committee holds the responsibility of managing the institute's expenses throughout the year Expenses arising of immediate exegencies are directly approved by the management without time delay.

The details of all the incomes and expenses are updated in the institutions dedicated Tally software with all the supporting documents ready for audit at any point of time. An internal audit system in place acts as a regulating body which physically audits all transactions in real time. Routine entries are made in the mandatory registers and account ledgers.

Internal Audit and External Audit

The internal audit team reports to the administration of regulatory flaws if any and reports to the statutory auditors appointed by the management. Physical verification of goods and services, maintenance of books of accounts, preparation of balance sheet and maintaining the temporary and permanent loan ledgers are some outlined responsibilities of importance.

The audit team conducts routine audits at different periodicities like monthly, quarterly, half yearly and annually. The auditors prepare the annual account statement and distribute that to the management recommending good practices worth following and control measures for future expenditure.

The account statement helps as total guideline for budgeting future planning and development activities of the institution.

File Description	Document
Provide Link for Additional information	[View Document](#)

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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

Institute established its IQAC cell to promote continuous quality improvement and to develop a system for conscious, consistent, and catalytic improvement in the overall performance of the institution.

IQAC reviews teaching-learning process to ensure that it is effective and relevant. It monitors the quality of classroom instructions, course materials, and teaching aids. It monitors the performance of faculty members through feedback from students, peer reviews, and self-evaluation. It directs the feedback committee to use this information to identify areas for improvements.

It monitors learning outcomes at periodic intervals to ensure that they are aligned with goals of the institution and evaluation of the performance of students through assessments and feedback from employers. It guides to use this information to identify areas for improvement and provides students with necessary support and training.

It maintains the quality parameters and benchmarks, feedback from stakeholders, and performance indicators and uses this information to track the progress of the institution and to identify areas for further improvement through different committees.

IQAC oversees MOUs with different organizations and facilitates in accreditation. IQAC approves to conduct capacity-building programs such as Faculty development Programmes (FDP), Management Development Programmes (MDPs) for faculty and staff. These programs are designed to enhance the skills and knowledge of faculty and staff in various areas related to teaching-learning, research, and administration.

It took initiatives to conduct workshops, seminars, conferences and training sessions on various topics, and encourages faculty and staff to participate in various professional development programs and conferences to enhance their knowledge and skills.

Training and placement cell has been established that provides guidance and support to students seeking

employment opportunities. T&P Cell conducts several training programs and workshops to help students develop their employability skills, such as communication, problem-solving, and team working.

To facilitate Outcome-Based Education (OBE), IQAC cell has initiated through HOD's and Faculties the Course outcome attainment calculations for each course. At the end of each course, the Cos, POs and PSOs attainment and evaluation is carried out to check whether they have been attained or not.

As a measure to expedite its quest for quality, IQAC has initiated Academic & Administrative Audit of each department. The audit team assesses the activities involved in developing learning outcomes, design and development activities in curriculum, teaching-learning process, student learning assessment process and student engagement programs. In addition the audit team also examine and report on the facilities in general and in academic fields made available to students in respect of their holistic development.The audit team also assess the quality and quantity of research outcomes.

File Description	Document
Provide Link for Additional information	[View Document](#)

6.5.2

Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
2. **Academic and Administrative Audit (AAA) and follow-up action taken**
3. **Collaborative quality initiatives with other institution(s)**
4. **Participation in NIRF and other recognized rankings**
5. **Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: A. Any 4 or more of the above

File Description	Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

The socially constructed roles and responsibilities that societies deem suitable for all genders. Gender equality is the idea that men and women should have equal rights, responsibilities, and opportunities regardless of their gender. Recognizing ability differences and achieving the same goal with the same outcome is what gender equity entails.

To raise awareness of respecting each gender and find solutions to make the Institute campus safer for women, the Institute performed a gender audit survey. The institutionalization of gender equality within organizations, including in their policies, programs, projects, and service offerings, is checked and assessed using a gender audit.

Our Institute address all concerns of discrimination based on gender and provides a setting where men and women can coexist with a sense of both personal protection and dignity through the Internal Complaints Committee.

JB Institute of Technology has and is committed to protect Rights and dignity and eliminating discrimination against women. The Institute's Women Cell holds various seminars, self-defense training, and inspirational presentations about women's empowerment to ensure people are informed of their goals throughout the year. The Institute organizes events like International Women's Day celebrations, Gender sensitization programs, conferences, and debates related to gender equity to portray the inclusive and secure atmosphere. International Women's Day is celebrated every year in the Institute on March 8 with full enthusiasm and maximum participation and presence of female staff and students. Female students and faculty members are effectively involved in all committees and various activities.

Our Institute rests on creating a safe environment for our female students to provide equity and empowering motivation. The pedagogy of gender sensitization is not only limited to classrooms alone but also has created a vibrant campus environment that is safe and sound for girl students in our Institute. CCTVs are installed at the main entrance of the college gate, every classroom, hostel, corridor of every floor, canteen, pathways, parking area, hostels etc. The campus has gymnasium and playground facilities to enhance the mental and physical fitness of the students. The Institute provides sufficient sports facilities for indoor and outdoor games.

There are female warden for the security purpose, in the rotation employed in the girl's hostel. Entry is restricted to the hostel bonafide only. In an emergency, fire safety equipment is placed on every floor, and the College has trained personnel to ensure people are safe. Medical facilities are available on the

campus. A dispensary with a visiting doctor is available on campus to provide medical care to students. The first aid facility is available in both girls' and boys' hostels. An Ambulance facility is available 24/7 to meet medical necessities. Common rooms and counseling rooms are available for girls in the academic block.

The College has developed the Grievance Redressal Cell, which deals with grievance Complaints and malpractice, including those received from students, faculty, other stakeholders, and the general public. Complaint/Application may be submitted to the Institute on the prescribed Performa in writing or online.

Drop boxes are placed on all academic blocks and hostels for compliant registration. Both named and anonymous complaints are taken for immediate actions and resolutions.

File Description	Document
Provide Link for Additional information	[View Document](#)

7.1.2

The Institution has facilities and initiatives for

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Response: B. 3 of the above

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Provide Links for any other relevant document to support the claim (if any)	<u>View Document</u>

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

JB Institute of Technology offers a diverse atmosphere because it welcomes students, faculty, and staff from almost every state and abroad. The College is adamant about fostering inclusivity and emphasizes tolerance and peace towards communal, racial, ethnic, linguistic, religious, socioeconomic, and other differences. According to government regulations, the admissions process is carried out to fill the designated category's seats.

By scheduling expert lectures on various themes, the students are taught to be tolerant of and live in peace with linguistic, cultural, regional, communal, socioeconomic, and other diversity. The Institute has taken initiatives to promote the best quality education and socio-economical Upliftment of all the admitted students. It organizes various cultural programs based upon cultural diversity to set communal harmony among Students from various regional and cultural backgrounds whose participation in such programs and presentation of their regional folk songs and dances develop a friendly environment among all. These cultural programs are organized at the departmental and hostel levels and on different occasions like cultural fest, farewell party, fresher's day, etc. Through their student welfare committee, the students also conduct numerous other cultural activities on different occasions to cater to linguistic diversities.

Students from different regions also participate in cultural & technical fest competitions organized in the Institute, like essay writing, debates, declamation contests, poster making, wall painting, rangoli, etc., to sensitize Indian Diversity.

Under the guidance of NSS, the organization tries to promote socially conscious initiatives. It hosts camps with topics like health, environment, rural development, skill development, and value education. To promote harmony on various significant holidays, such as International Women's Day, National Integration Day, and International Yoga Day, by organizing events and fostering an environment accepting linguistic, cultural, regional, communal, socioeconomic, and other differences.

Mass recitation of the National Anthem is exercised and performed not only on the occasion of flag hosting/unfurling ceremony on Independence Day and Republic Day but also at the beginning of all significant events/functions like seminars, conferences, workshops, guest/expert lectures, and induction program, etc. to be held in the Institute.

Regarding the Nationwide campaign of "Azadi ka Amrit Mahotsava," the Trianga Yatra was performed,

covering the entire catchment area of the Institute and nearby villages with an absolute gathering of staff and students of the Institute. Blood donation camp is organized as an annual feature in the Institute where students, faculty, and staff contribute voluntarily by donating blood for the noble cause of serving society and proudly adorning the badge of a blood donor.

On November 26, every year, the Institute celebrates Constitutional Day, witnessed by a massive gathering of students and staff.

The JB Institute of Technology Periodically organizes talks and seminars on national identities, constitutional obligations, rights, values, and responsibilities. Eminent personalities and experts are invited to the campus. JB Institute of Technology Students are sensitized on their duties towards the nation, and practical engagement is demonstrated by the extension activities, including the adoption of the village and the services conducted.

File Description	Document
Provide Link for Additional information	[View Document](#)

7.2 Best Practices

7.2.1

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

Response:

Best Practice –I
1.   Title of the practice:
"Save Food; Save Life"

2.   Objective of the Practice:
It is essential to reduce the food wastage; hence the saving of food will certainly meet the hunger of a good number of people. According to UNEP food waste Index report, on an average 11% of the total cooked food gets wasted every day all around the world. The Food and Agriculture Organization (FAO) of the United Nations estimated that the number of hunger people throughout the world had been raised to 690 million people in 2019, and may show further increase in coming years. Tons of food wasted every day. Every grain of the food can save life, Reduction of food wastage is essential for people and planet. Hence to create ethical and moral values among our students, JBIT Dehradun has started the campaign "Save food; Save life".

3.   The Context:
Food wastes have a detrimental influence on food security and availability, as well as contribute to rising food prices. Our food systems cannot be robust unless these are sustainable, that is why we must prioritize the adoption of integrated ways to reduce food loss and waste. According to studies, Interventions that successfully reduce the amount of wasted food in this context may result in a smaller

reduction in greenhouse gas emissions may also reduce pollution hazard.

4.   The Practice:

Institute has constituted a mess committee that cooperates to sensitize all hostellers to cut down the food waste to meet the goal. Dedicated posters and Notice Board near the mess area present alarms to all that "how much food wasted everyday that may feed number of people". The visuals raise awareness about food wastage and inspire students to take action for reduction of waste.

5.   Evidence of Success:

The practice helped the institute to improve by reducing food waste from about 51.3 KG/Day (including breakfast, Lunch and Dinner) to about 9.248KG/Day.

6.   Problem encountered and resources required:

Conversion of food waste in to nutrient-dense compost.

7.   Notes (Optional):

Composting pits have been developed in the institute for the conversion of this food waste into the high quality organic compost. This compost is being successfully used in nearby fields.

Best Practice –II

1.   Title of the practice:

"3-C in Me"

First   C: Consciousness
Second C: Courage
Third C: Capability

2.   Objective of the Practice:

Consciousnesses about the Vices & Events in societies are complex and multifaceted based upon cultural, geographical and historical contexts.

Courage is associated with facing and overcoming the challenges to honestly reflect from self awareness, confiding in friends and family to raise the voice. Courage allows individuals to embrace vulnerability as strength rather than a weakness.

Capability is the commitment of making positive changes in one's life involving stepping out of familiar patterns and embracing the uncertainty that comes with change. Individuals need to be vulnerable, admitting their struggles and seeking help and to have ability to bounce back from challenges. According to United Nations Environment Programme (UNEP) report of united nation, 80% of the society is affected by Vices & Events due to out of ignorance. Hence to create awareness about health, environment, and social responsibilities and to know the laws and rights of the people, J B Institute of Technology has started the campaign "3-C in Me".

3.   The Context:

Awareness in the society is very essential for the upliftment and development of human being. Government and non-government agencies are regularly running several programs for the benefit and upliftment of the society, but due to out of ignorance masses of people are deprived of all these and could not gain benefit. Moreover, due to unawareness among masses, they harm the culture, environment and tolerate several troubles.

4.   The Practice:

A dedicated committee has been constituted in the institute comprised of faculties, non teaching staff and the students that run a campaign to let the society know about all the beneficial programs of government and nongovernment agencies for the upliftment of the society. The committee members raise awareness

about four different sectors i.e. health, environment, social responsibility and legal aspects including rights & duties. This campaign inspires and motivates people to take action and spread awareness for the better future of masses. This small step has been proved highly effective in grabbing people's attention and conveying the message for their own betterment.

5. **Evidence of Success:**

The campaign of "3-C in me" has created awareness not only among the students of the Institute but also empowered the people of the surrounding areas, panchayats etc. on the issues pertaining to environmental awareness, social Issues, health and legal regulatory enrichment through the campaign under social welfare initiatives of the JB Institute of Technology. As a result of this awareness among masses due to this 3-C in me campaign the people have developed the qualities of C, C & C. This has proved wide improvements in all these aspects. Recognition from the authorities at various levels are the evidences of success of our campaign and has also encouraged with improved moral support to the students to run the campaign.

6. **Problem encountered and resources required:**

People may find difficulty in going out of the practices which are continuously being observed and in regular practice since decades and to pick up on updated social signs and adhering to social conventions. Yet efforts must have been made at all the levels with courage and continuity based on the concept of 3-C in Me.

File Description	Document
Any other relevant information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Sustainable Landscaping with Green Environment Campus:

Designing, creating, and maintaining landscaping with a focus on energy and cost savings is termed as "Green Landscaping. "Sustainable landscapes create healthy recreational areas while lowering pollution levels in the air, soil, and water. Pollution free environment creates healthy atmosphere among all with fresh minds and activeness. A planned landscaping with green environment is also beneficial in effective utilization of land area.

Location of the Institute

The campus is spread over a total of 25 acres of land area, located at the foothills of Himalayas and a home of a large number of students coming from different states of India and nearby countries. Institute's campus is beautiful, greenish, picturesque and having conducive and pollution free environment for the studies. The Institute is at a distance of apprx.23km from ISBT & Railway Station,

Dehradun.

The description of infrastructure is presented as under:

Environmentally friendly infrastructure includes:

- Lush green campus with wide variety of trees and other small plants.
- Large variety of flowering and ornamental plants arranged in well planned way, multiplies the beauty of appearance.
- All the trees have been identified and labeled with QR coding, that provides complete information of the plant in all respect.
- Environmental study is a qualifying subject as a part of curriculum for all the undergraduate courses as per the direction of affiliating university keeping in view the environmental consciousness among students.
- All the infrastructure is surrounded by the trees and proper clean metallic roads with well connectivity to minimize the lag time

Planned Architecture with landscaping

The Institute is developed based on proper planning and architecture keeping in mind the sustainable landscaping with proper utilization of land area. All infrastructures are constructed based on scope of future expansion. Safety and security are also one of the important aspects of infrastructure architect. The institute is surrounded by big boundary walls from all the sides with proper fencing of which provide safe and secure environment for the students, teachers and all people of the institute.

Main Building & Departments

The main building named Main Block –A is well-constructed in four floors with almost a square appearance in about 3 acres of land area. The central area of the building acts as an open theater like with steps and a stage to organize various functions and events in the institute. The top of this open square area has been covered with polymer sheets fitted in steel frame to avoid rain and dust. There are continuous lanes of trees on the sides of the paths both pedestrian and the metallic paths. This entry of the main block leads to a well aerated and lighted reception area provided with all facilities of sitting and urgent services. The main block has all its administrative set up comprising of Chairman's, Director's, Registrar's offices as well as accounts office, main office, counseling rooms, Library section, Laboratories, HOD's offices, department wise class rooms etc. All the amenities and facilities are well furnished with clean environment. All classrooms and laboratories in institute are fitted with sufficient number of transparent glass panes well ventilated, lighted with sun light and spacious.

Infrastructure: Canteen & Mess

The canteenof the institute has a big hall provided with sufficient furniture comprised of good number of chairs and tables. The hall is fully airy and well lighted with all its window panes having transparent glasses. The mess, situated in the mid of hostels is well-ventilated and lighted with good sitting arrangement for boys and girls separately. It prepares all eatables for breakfast, lunch and dinner including evening refreshments in clean environment by well dressed chefs.

Infrastructure: Hostels for Boys and Girls

The institute provides the facility of stay within the campus for both boys and girls. There are three separate boys' hostels and one girls' hostel situated separately at some distant places in the back yard of the campus. In each hostel fresh hot water supply by solar water heaters isa available as an indicative of the energy conservation. Also, in each hostel and mess RO is installed for drinking water purpose.

Infrastructure: Staff Residences/ Quarters

There are two blocks of buildings as staff residencies/quarters for the regular staff of the Institute with a total of 12 quarters, 6 in each block with 2 BHK dimensions. Rent free accommodation is provided to staff. The separate power back up is through a high power Gen-set available for the hostels and the staff quarters.

Infrastructure: health and hygiene

- Institute provides clean and hygienic basic amenities to staff and the students.
- RO water supply system supplemented with water cooler is installed at every floor in the institute to provide pure and bacteria free drinking water.
- Big spacious and ventilated toilets are provided at every floor of the square building.
- The girls' common room is provided with vending machine and a bed to be used by any ailing girl student in case of emergency.

Appreciation by VMSB Uttarakhand Technical University, Dehradun

The Institute has been appreciated by VMSB Uttarakhand Technical University with 3rd Rank amongst all institutions affiliated to this university in the session 2022-23. This Certificate of Appreciation is presented as **UTU Star for Sustainable Development** for its contribution to realizing Sustainable Development Goals prescribed by the United Nations. It has been awarded to recognize the extension activities conducted by the YRC (Youth Red Cross) Unit of the institution on social issues, health issues and child welfare issues etc to be spread by YRC of the institute as outreach activity.

Infrastructure related to Sports and games: Physical development among students

The institute has a big land area meant for various games and sports in its campus like football, cricket, basketball, badminton, volleyball and kabaddi grounds are well maintained by the sports committee. A big spacious gymnasium hall equipped with all modern equipments is in place in the institute. Indoor games like Table tennis, Carom, Chess etc. are also available for students.

File Description	Document
Any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

Institution has implemented the seven criteria of NAAC to ensure quality education, maintain high standards, and provide a conducive learning environment for its students. Institute has a team of experienced and qualified faculty members who use a combination of teaching methods such as flip classes, group discussions, practical sessions and modern evaluation techniques such as quizzes, assignments, and examinations CIE-1 & CIE-2 to evaluate students' progress.

Institute has a modern campus equipped with state-of-the-art facilities such as a well-stocked library, departmental labs, CV Raman Centre for Research, Innovation and Entrepreneurship, Aryabhatta Centre for Smart Computing, Smart Class-rooms, Swami Vivekananda Hall, Language Lab, BMW Engine Model under CSR initiative by BMW, and Computer Center. Central library of the institute provides access to online journals and e-books to enhance students' learning experience.

Institute has implemented several best practices such as 3-C in me, Save food save life to enhance the learning experience. It encourages values such as integrity, accountability etc. Institute also encourages community outreach activities such as blood donation camps and Swachh Bharat Abhiyan to promote social responsibility among students.

Concluding Remarks :

The delivery of the curriculum in the classroom involves a range of educational experiences that foster critical thinking, creativity, and scientific curiosity. Value-added courses, seminars, workshops, industrial visits, internships, are part of teaching learning process. Continuous Internal Evaluation is monitored by IQAC.

The institute promotes ICT-friendly teaching. The institute follows Outcome Based Education (OBE). At the end of the semester, attainment levels of COs, POs and PSOs are calculated and reviewed.

For developing sensitivities towards community issues NSS, and YRC unit and departmental Clubs has been established. Environmental commitment is evident as installation of solar panels, rain water harvesting, STP Plant and LED bulbs.

The institute has transparent appraisal system to assess its employee's performance. It has well-defined procedures for recruitment, incentives, increments and promotion and various staff welfare measures.

The objective of the management is not only to promote the students to obtain degree but also to prepare the students to become global citizens with self-confidence, positive attitude and motivation to face any challenge in their lives.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.2.1	**Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)** Answer before DVV Verification : Answer After DVV Verification :15 Remark : DVV has made changes as per the report shared by HEI.
1.2.2	*Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years* 1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
423	437	479	495	498 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
81	169	129	44	87	 Remark : DVV has made changes as per the report shared by HEI.
1.3.2	**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)** 1.3.2.1. **Number of students undertaking project work/field work / internships** Answer before DVV Verification : 378 Answer after DVV Verification: 367 Remark : DVV has made changes as per the report shared by HEI.
2.1.2	*Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years* 2.1.2.1. **Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)** Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19	

| 57 | 33 | 25 | 42 | 32 |

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
29	17	14	29	29

2.1.2.2. **Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
105	89	73	73	80

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
105	89	73	73	80

Remark : DVV has made changes as per the report shared by HEI.

3.4.3	*Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.*
	3.4.3.1. **Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
14	8	7	7	8

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
10	6	5	5	6

Remark : DVV has made changes as per the report shared by HEI.

3.5.1	*Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.*

Answer before DVV Verification :
Answer After DVV Verification :17
Remark : DVV has made changes as per the report shared by HEI.

5.1.4	*The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases*
	1. **Implementation of guidelines of statutory/regulatory bodies**
	2. **Organisation wide awareness and undertakings on policies with zero tolerance**
	3. **Mechanisms for submission of online/offline students' grievances**
	4. **Timely redressal of the grievances through appropriate committees**
	Answer before DVV Verification : A. All of the above
	Answer After DVV Verification: B. 3 of the above
	Remark : DVV has made changes as per the report shared by HEI.

5.3.2	**Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)**
	5.3.2.1. **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**
	Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
44	44	8	38	38

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
20	21	06	17	20

Remark : DVV has made changes as per the report shared by HEI.

7.1.2	**The Institution has facilities and initiatives for**
	1. **Alternate sources of energy and energy conservation measures**
	2. **Management of the various types of degradable and nondegradable waste**
	3. **Water conservation**
	4. **Green campus initiatives**
	5. **Disabled-friendly, barrier free environment**
	Answer before DVV Verification : A. 4 or All of the above
	Answer After DVV Verification: B. 3 of the above
	Remark : DVV has made changes as per the report shared by HEI.

2.Extended Profile Deviations

Extended Profile Deviations
No Deviations