

**J.C. Bose University of Science & Technology  
YMCA, Faridabad**

**(A Haryana State Govt. University)**

(Established by Haryana State Legislative Act No.21 of 2009 &  
Recognized by UGC Act 1956 U/S 22 to Confer Degrees)

**Accredited 'A+' Grade by NAAC**



**ADDITIONAL AGENDA ITEMS FOR 26<sup>TH</sup>  
MEETING OF ACADEMIC COUNCIL  
SCHEDULED TO BE HELD ON 07.02.2023  
AT 11.00 AM  
(VENUE: BOARD ROOM)**

## **INDEX OF ADDITIONAL AGENDA ITEMS**

<b>ITEM NO.</b>	<b>TITLE OF THE AGENDA ITEMS</b>	<b>PAGE NO.</b>
AC/26/16 (Additional)	To consider and approve regarding grant of Special Extra Mercy Chance for exam (after completion of prescribed time period).	02
AC/26/17 (Additional)	To consider and approve the Policy and Structure of Alumni Affairs Cell of the University.	03
AC/26/18 (Additional)	To consider and approve the submission of Annual Quality Assurance Report(AQAR) 2021-22.	03
AC/26/19 (Additional)	To consider and approve start of Minor Degree/Certification course/specialization/Diploma in "Electric Vehicles Technology" in the Department of Electrical Engg from the session 2023-24.	04
AC/26/20 (Additional)	To note the emerging of the University as "Research-Intensive University".	05
AC/26/21	Any other item with the permission of the Chair.	

## ADDITIONAL AGENDA ITEMS

<b>No.AC/26/16 (Additional)</b>	<b>To consider and decide regarding grant of Special Extra Mercy Chance for exam (after completion of prescribed time period).</b>
	<p>It is submitted that a student namely Mr.Lal Singh, Roll No.17038701032, MBA Course in Sri Ram College of Engg. &amp; Management, Palwal vide his application dated 19.12.2022 has requested for grant of another mercy chance to appear in the examination. Mr.Lal Singh was already granted a mercy chance in March, 2022.</p> <p>Since, there was no provision in the Exam Ordinance for grant of second mercy change, a committee was constituted under the Chairmanship of Dean (Colleges) to examine and give its observations. The Committee in its meeting held on 31.01.2023 and found that the Academic Council in its meeting held on 05.12.2019 already granted special permission to appear for second mercy chance after depositing a fee of Rs.25,000/- per student/per semester. However, it was a special chance given during the Golden Jubilee year of the University and could not be taken as precedence.</p> <p>The Minutes of the Committee are enclosed herewith as <b>Annexure-26.16.01 (Page No. 6)</b> for ready reference of the members.</p> <p>The matter is placed before the Council for kind consideration and necessary decision.</p>
<b>No.AC/26/17 (Additional)</b>	<b>To consider and approve the Policy and Structure of Alumni Affairs Cell of the University.</b>
	<p>It is submitted for kind information of the Council that the Alumni Association namely MOB(Meet Old Buddies) was established in the year 1985, to create and maintain life-long connection/relationship between the Alumni and Institution/University, whose number is more than 10,000.</p> <p>The Council may kindly appreciate that the Alumni are the asset to any Institution; therefore, it is proposed to make a policy and restructure to look after the help and support provided by the Alumni to the University. Further, under the policy the constitution of Alumni Affairs Committee has been proposed to manage the vast alumni database and connect alumni, support students and build an unforgettable institute experience through a diversity of events and oversee all financial decisions of Alumni Affairs Cell and of the Alumni Association.</p> <p>The Policy and Structure of Alumni Affair Cell of the University proposed by the Dean, Alumni Affair Cell is enclosed herewith as <b>Annexure-26.17.01 (Page No. 7-9)</b></p>

	<p>The Council may kindly consider and approve the Policy and Structure of Alumni Affairs Cell of the University.</p>
<b>No.AC/26/18 (Additional)</b>	<b>To consider and approve the submission of Annual Quality Assurance Report(AQAR) 2021-22.</b>
	<p>In this connection, it is informed that the submission of Annual Quality Assurance Report (AQAR) with NAAC is mandatory for all accredited Institutions. Hence, with continuous process of annual submission of AQAR on NAAC portal, the Internal Quality Assurance Cell (IQAC) of the University has prepared the draft AQAR for the session 2021-22.</p> <p>The AQAR is a comprehensive report that provides accredited performance of the University in relation to its quality assurance activities. It includes information about the University's educational programs, student learning outcomes, infrastructure, faculty, research, cultural and sports activities. A copy of the AQAR for the year 2021-22 is enclosed herewith as <b>Annexure-26.18.01 (Page No.10-41)</b>.</p> <p>The Council may kindly consider and approve the submission of Annual Quality Assurance Report (AQAR) of the University for the year 2021-22.</p>
<b>No.AC/26/19 (Additional)</b>	<b>To consider and approve start of Minor Degree/Certification course/specialization/Diploma in "Electric Vehicles Technology" by the Department of Electrical Engg from the session 2023-24.</b>
	<p>It is submitted that the Electric Vehicle Technology is attracting eyeballs worldwide to achieve the global goal of zero-carbon emission and sustainable development. India's National Electric Mobility Mission Plan 2020 to accelerate the use and manufacturing of hybrid and electric vehicles in India. An urgent need transition to clean transportation since automotive pollution is wreaking havoc on the ecosystem.</p> <p>It is further submitted that the Government is also pushing deployment of Electric Vehicles &amp; EV Charging Stations by providing capital subsidy through Faster Adoption and Manufacturing of Hybrid Electric Vehicles in India –FAME (India Scheme Phase-II) and State level initiatives.</p> <p>The Electrical Engg. Department of the University vide Proposal dated 2.2.2023 intends to start a Minor Degree/Certification course/specialization/Diploma in "Electric Vehicles Technology" from the session 2023-24, as it is emerging area to cater the need of fuel and energy efficient vehicles.</p>

	<p>A Minor Degree/Certification course is an additional credential student may earn, if he/she does additional learning for 12-20 credits in a discipline other than his/her major discipline/parent department. A copy of proposal is attached herewith as <b>Annexure-26.19.01 (Page No.42)</b>.</p> <p>The above proposal regarding start of Minor Degree/Certification course/specialization/Diploma in "Electric Vehicles Technology" by the Department of Electrical Engg from the session 2023-24, is placed before the Council for its kind consideration and approval.</p>
<p><b>No.AC/26/20 (Additional)</b></p>	<p><b>To note the emerging of the University as "Research-Intensive University".</b></p>
	<p>It is submitted that an Internal Workshop of NEP-2020 Implementation Committee was held on 17.01.2023 in the Board Room of the University to review the progress/status of NEP implementation in the University.</p> <p>It is further submitted that the NEP-2020, under Clause-10.3 i.e. "Institutional Restructuring and Consolidation" contains the following provisions:-</p> <p><i>"The definition of university will allow a spectrum of institutions and range from those that place equal emphasis on teaching and research i.e. Research-Intensive Universities, and those that place greater emphasis on teaching but still conduct significant research i.e. Teaching-Intensive Universities".</i></p> <p>Keeping in view of these definitions, the University in its meeting held on 17.01.2023 has decided to be Research Intensive University. Therefore, the Laboratories and Incubation Centre of the University should be more inclined towards a Research Intensive University.</p> <p>A copy of the Minutes of Internal Workshop of NEP-2020 is placed here for information of the Council as <b>Annexure-26.20.01 (Page 43-47)</b>.</p>

**Minutes of the meeting**

As per the order of competent authority to review the minutes of previous meeting held on 29.12.2022, second meeting of the committee was held on 31.01.2023 at 12 o' clock in the office of Prof Tilak Raj.

Following members attended the meeting:-


- Dr. Tilak Raj, Dean (Colleges) : In Chair
- Dr. Ashutosh Nigam, Dean (Management) : Member
- Prof. Hari Om, Dean (Exams) : Member


Principal (Shri Ram College of Engg. and Management, Palwal) could not attend the meeting due to some medical issue.

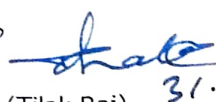
Following observations were made by the committee:

1. The Student Mr. Lal Singh (Roll No. 17038701032), a previous student of MBA in Sri Ram College of Engineering and Management, Palwal was admitted to 02 year MBA Programme in 2017. The student has applied for the second Mercy Chance to appear in Business Research and Quantitative Techniques (Subject code: MBA-104) after the completion of his maximum prescribed time limit of 04 years for MBA degree.
2. The above mentioned student *Lal Singh* has appeared 05 times for this subject including one mercy chance and all the possible chances to pass this subject have been exhausted by him but could not pass the examination for this subject.
3. The student has cited one such case as precedence in his application. The committee verified the minutes of Academic Council meeting held on 05.12.2019 and subsequent notice (Acd/2019/1341 dated 11.12.2019) providing the permission to the appealing students to appear for second mercy chance after depositing a fee of Rs. 25,000/- (Rupees Twenty five thousand only) per student /per semester. The Notice clearly mentions that it was a special case given during Golden Jubilee year of University and could not be taken as precedence.
4. There exists no rule presently to allow the student for second mercy chance as per Examinations Ordinance

In view of above observations, the committee recommends that the matter may be placed before the Academic Council for consideration of student's request.

  
(Hari Om)  
Dean (Examinations )

  
(Ashutosh Nigam)  
Dean (Management  
Studies)

  
(Tilak Raj)  
Dean (Colleges)

## Policy document for Alumni Affairs Cell

**A. Introduction:** J.C. Bose University of Science and Technology, YMCA Faridabad aims to foster strong bonds between its alumni and the University Community. The University recognizes the alumni as important stakeholders in enhancing its excellent resources for high quality education. It realizes the enormous benefits that come from an engagement with and the support of its alumni who have considerable expertise in many areas, that can help identify strategic directions for the University.

This connect to Alumni Initiative will provide opportunities to the Alumni to engage in community service. They serve as effective interlocutors, provide advice and support to the university, suggest frontline research areas, offer career advice, and also help in securing financial support. Another important dynamic academic aspect is that alumni provide technical collaboration in research and projects.

Alumni are asset to any institution; accordingly, University shall constitute Alumni Affairs Cell to manage the vast alumni database and connect alumni, support students and build and unforgettable institute experience through a diversity of events.

**B. Present Status :** Presently an Alumni Association namely MOB (Meet Old Buddies), which was established in 1985, to create and maintain life-long connection between the alumni and its university, whose number is more than 10000. There are countless success stories of the University's Alumni The alumni Affair. Cell shall function in collaboration with MOB to bring the best for the overall development of the University. Hon'ble VC of the University is the Patron of the Alumni Association.

The Present Structure of the Alumni Association MOB is:

- Founder Members
- The Patron- Vice-Chancellor of the University
- Central Executives Committee (CEC) consisting of fourteen members plus immediate past President, Vice-President, and Secretary General
- General Body- consisting of all members of the association
- Local Chapters- Headed by Chapter Chairs

**C.** The MOB is supporting the University in different ways financially or non-financially. The financial support provided by the MOB since 2015 is detailed as below:

YEAR	Support in Lacs
2015-16	Rs 35.55
2016-17	Rs. 15.70
2017-18	Rs. 44.70
2018-19	Rs. 138.4
2019-20	Rs. 57.7

MOB is providing financial and non-financial support to University in the form of Scholarships for students, Sponsorships for cultural/technical events, Research Fellowships, Financial support for development of Infrastructure, Conduct of Experts lecture by distinguished Alumni, Assisting Training and Placement cell for Internship and Placement of Students.

#### **D. Objectives of Alumni Affairs Cell:**

- To encourage interactions between students, faculty, alumni and industry by holding lectures, seminars, workshops and conferences.
- To generate a 'Brain-Bank' from amongst its members or experts from outside and provides its services for the benefit of the University, in particular, Alma Matter and the society, in general.
- To publish and distribute various materials relating to the University and its alumni.
- To arrange and conduct meetings of the alumni.
- To assist in the placement of students and to provide scholarships where appropriate.
- To encourage alumni and friends of the University to generously support the University.
- To organize and promote a fund to be known as The University Alumni Fund for the use and benefit of The University and its association.

#### **E. Roles and Responsibilities of the Cell:**

The Alumni Affairs cell strives to achieve these objectives through the following actions:

- To promote and foster mutually beneficial interaction between the Alumni and the Alma Mater.
- To encourage the formation of chapters to increase participation of Alumni.
- To undertake all such lawful activities as are conducive to the attainment of the above objectives.
- To exchange professional knowledge, organize technical conferences, seminars workshops & training courses.
- To develop a career counseling centre and other forums to bring about public awareness.
- To promote and foster research work by providing research fellowships and sponsoring research projects.
- Coordinating with President, Chapter Chairs, Batch Coordinators, and alumnus for various activities and helping them organize events and alumni meet at their respective Chapters.
- Annual Meeting of Executive committee of Alumni Association shall be convened under the Chairmanship of the Honorable Vice-Chancellor.
- Funds collected in form of contribution from students/alumni or through donation shall be utilized for the welfare activities of the students or infrastructure development as may be decided by the Alumni Affairs committee.

## **F. Proposed Structure of the Alumni Affairs Cell:**

1. **Dean, Alumni Affairs :** The office of the Dean, Alumni Affairs shall develop a linkage between the University and its Alumni by Creating its Network. The office shall provide a platform for meeting and interaction between distinguished Alumni and students of the University.
  - The Dean will be In-charge of the office of the Alumni Affairs Cell and look after the day-to-day work.
  - Dean will formulate the plans for future activities and perform all other activities to further strengthen the bond between the University and the Alumni.
  - Dean will be Convener and maintain all records related to Alumni Affairs Cell.
  - Perform all other functions which may be delegated to him by the Vice-Chancellor.
  - Terms and Conditions of appointment of Dean shall be same as laid down by university act for other positions of Dean or as may be decided by Vice-Chancellor.
2. **Coordinator:** The Coordinator shall assist the Dean and perform such other duties as assigned to him by Dean.
3. **Data Entry Operator / Clerk:** To Support the Dean/Dy/Dean in maintaining the database of Alumni and other activities of the Alumni Affairs Cell.
4. **Helper / Attendant:**To assist the office.

## **G. Alumni Affairs Committee:**

*The Alumni Affairs Committee will oversee all financial decisions of alumni affairs cell and of the alumni association, including setting and monitoring budgets, and ensuring clear, independent financial audit and is also empowered to resolve any issue arising out due to any reason what so ever between the University and Alumni Association*

The Committee shall be consisting of the following:

- Vice-Chancellor- Chairperson
- President- MOB
- Registrar
- Secretary General- MOB
- Dean, Academic Affairs
- Dean, Students Welfare
- Dean, Alumni Affairs- Convener
- Any other members as approved by the Vice-Chancellor



## YEARLY STATUS REPORT - 2021-2022

### Part A

#### Data of the Institution

<b>1.Name of the Institution</b>	J C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD
• Name of the Head of the institution	Prof. Sushil Kumar Tomar
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	01292310102
• Mobile no	9463223629
• Registered e-mail	vc@jcboseust.ac.in
• Alternate e-mail address	registrar@jcboseust.ac.in
• City/Town	NH-2, Sector -6, Mathura Road, Faridabad
• State/UT	Haryana
• Pin Code	121006
<b>2.Institutional status</b>	
• University	State
• Type of Institution	Co-education
• Location	Urban
• Name of the IQAC Co-ordinator/Director	Prof. Ashutosh Dixit
• Phone no./Alternate phone no	01292310126

• Mobile	9873356911				
• IQAC e-mail address	iqac@jcbouseust.ac.in				
• Alternate Email address	iqac.jcbust@gmail.com				
3.Website address (Web link of the AQAR (Previous Academic Year)	<a href="https://jcbouseust.ac.in/assets/uploads/media/930cf90a52d8635fdb7a2327dd7344e.pdf">https://jcbouseust.ac.in/assets/uploads/media/930cf90a52d8635fdb7a2327dd7344e.pdf</a>				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://jcbouseust.ac.in/academic-calendar">https://jcbouseust.ac.in/academic-calendar</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.08	2016	05/11/2016	04/11/2021
Cycle 2	A+	3.32	2022	18/10/2022	17/10/2027
6.Date of Establishment of IQAC	22/09/2015				
7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.					
Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount	
University	12 (B)	UGC	2012 1825	70000000	
University	TEQIP III	MHRD	2017 1095	70000000	
University	RUSA	MHRD	2018 1095	200000000	
8.Whether composition of IQAC as per latest NAAC guidelines	Yes				
• Upload latest notification of formation of IQAC	<a href="#">View File</a>				
9.No. of IQAC meetings held during the year	2				
• The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)	Yes				
• (Please upload, minutes of meetings and	<a href="#">View File</a>				

action taken report)	
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
• If yes, mention the amount	
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>	
1. Conduct of orientation program for newly appointed faculty and staff as and when required. 2. Conduct of orientation/induction program for newly admitted students 3. Conduct of other workshops/seminars/training for students faculty and staff in association with other departments/offices/branches 4. Conduct of Feedbacks on curricula and follow-up action. 5. Conduct of Academic and Administrative audit.	
<b>12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>	
Plan of Action	Achievements/Outcomes
Conduct of orientation program for newly appointed faculty and staff as and when required	Done
Conduct of orientation/induction program for newly admitted students	Done for UG and PG programmes
Conduct of other workshops/seminars/training for students faculty and staff in association with other departments/offices/branches	Done
Conduct of IQAC meeting	Done
Constitution of next IQAC Composition	Done
Conduct of AAA	Done
Conduct of Feedbacks on curricula and follow-up action	Done
Conduct of 360 degree feedback through departments	Done
Verification of API score for Promotion under CAS as and when required	Done
University Accredited with a CGPA of 3.32 at A+ grade in NAAC cycle 2	Visit and accreditation done
Initiate the preparation for NAAC Cycle 3	Done
13. Whether the AQAR was placed before statutory body?	Yes
• Name of the statutory body	
Name	Date of meeting(s)
IQAC Meeting	13/01/2022
14. Whether NAAC/ or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	Yes
<b>15. Whether institutional data submitted to AISHE</b>	
Year	Date of Submission
2021-22	19/01/2023
<b>16. Multidisciplinary / interdisciplinary</b>	

J.C. Bose University of Science and Technology, YMCA, Faridabad erstwhile YMCA Institute of Engineering, Faridabad was established in the year 1969, as a joint venture of the National Council of YMCAs of India, Govt of Haryana, and the Central Agencies for Development Aid, Bonn, Germany. The University offers 4-year B.Tech degree course in various disciplines i.e Computer Engineering, Information Technology, Computer Engineering specialization in Data Science, Electronics and Instrumentation Control, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering, Civil Engineering, Electronics and Computer Engineering, Robotics & Artificial Intelligence and Environmental Engineering. The University also offers other courses i.e. MCA, MBA, M.Tech (Computer Science and Engineering, Computer Engineering, Electronics and Communication Engineering, VLSI Design, Power Electronics and Drives, Mechanical Engineering (Manufacturing Technology and Automation, Energy and Environmental Engineering, M.Sc. (Physics, Maths, Chemistry, Environmental Sciences, Biotechnology, Microbiology, Botany, Zoology, Animation and Multimedia), M.A. (Mass Communication and Journalism, English), B.Sc. (Physics, Maths, Chemistry, Animation and Multimedia, Life Sciences), BA, B.Com, BCA, BBA, B. Voc, PG Diploma, Diploma and Ph.D. courses. The University stands apart from other Institutions of Haryana in the sense that right from the very beginning at the institutional level, it has emphasized greatly on practical work related to the industry.

#### 17. Academic bank of credits (ABC):

The National Education Policy 2020 (NEP 2020) is envisioned for the paradigm shift in the entire education system of India with the learning process starting from pre-primary education to higher education and continuing the entire life to achieve the ultimate goal of one's life that is liberation. At J. C. Bose University of Science and Technology, YMCA, the sub-committee wholeheartedly worked out to understand and explore the possibilities of the scheme of Academic Bank of Credits (ABC) for the benefit of our stakeholders, and to our society. The ABC scheme will be implemented in a phase-wise manner in line with the National Credit Framework (NCrF): The Report of the High-Level Inter-Ministerial Committee on National Credit Accumulation & Transfer Framework released in September 2022. The NCrF provides for creditisation of all learning and assignment, accumulation, storage, transfer & redemption of credits, subject to assessment; removes distinction and establishes academic equivalence between vocational & general education; enables mobility within & between them, and its operationalizing through the Academic Bank of Credits (ABC).

Short Term Goals: 1. Registration of students admitted in 2021 & 2022 on portal for Academic Bank of Credits (ABC) Portal /Creation of ABC Ids of Stakeholders -Institute and students on <https://abc.gov.in/>. 2. Establishment of Regional/State level state of the art infrastructure for creating online courses.

3. ABC implementation may be started from Integrated /Honors Courses / Social Work /Management Courses.

4. Multi-Exit and Multi-Entry (MXME) may be followed as per guidelines of HEIs. Scope for flexibility in earning academic credits through different modes of learning to enable MXMEs may be explored.

5. Initiating Industry relevant courses.

6. Formation of Equivalence and Admissions Committee (EAC).

7. Opportunities for strengthening unexplored domains of the faculty.

8. Setting up the regulations in accordance with National Innovation Startup Policy (NISP), enabling the students to take up start-up activities, in lieu of academic credit points.

9. Keeping the National Credit Framework (NCrF) as a broad enabling framework for all regulatory organizations, University may notify its detailed implementation guidelines within this Framework through various regulatory bodies. University may create imaginative and flexible curricular structures; and creative combinations of disciplines and other special needs.

#### 18. Skill development:

J.C Bose University of Science and Technology, YMCA has been in existence for the past 50 years and consistently been contributing towards creation of competent engineering professionals and entrepreneurs. An Institution that had a humble beginning as a post diploma institution and famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (grant of 12B status), accreditation (NAAC Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Engg. Category)

Apart from creating highly qualified professionals, we are involved in imparting basic technological skills. We work with students to design customized educational plans that meet their individual goals.

In a rapidly advancing world around us, new technologies are emerging and rapidly discarding the old ones. People with new perceptions are pursuing the ambitions for better world. We, in

JC Bose UST, are aware of this and endeavoring our utmost to participate in these changing processes. We teach, train and prepare the students to a level where they can handle any circumstances independently to attain advanced degree of brilliance in professionalism. The University is committed to promote modern innovations in teaching learning processes, cultivate research & development culture.

The contemporary design of our skill labs, smart classrooms, conference rooms, research and teaching areas etc., is an integral expression of our assurance to creating a physical environment that can uphold the fabrication of Skill, learning and acquaintance in the 21st century.

As we look into the future, one thing is certain - Skilled manpower will be a key resource and will be highly sought after within India and around the Globe. Our challenge in University is to generate ideas that will ultimately benefit the Society by providing quality skill development and to train people to work in fields where they will be valued for their specialized knowledge and skill.

University promotes creativity, innovation, provides opportunities for experimentation, critical analysis and learning by doing real work. We strive to achieve excellence in education with the objective to bring glory to our Nation. Our mission is to maintain a dynamic balance between theoretical knowledge and practical training, as also between professional ethics and technical expertise. For this various Skill Development Workshops are organized in the University from time to time.

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

University is focused on the establishment and effective utilization of a system of holistic learning, with the objective of achieving students' success in terms of professional development and personal development, with a strong foundation and undercurrent of ethics and values.

The cross cutting issues relevant to gender, environment & sustainability, human values and professional ethics, yoga and meditation, Constitution of India, Message of Bhagwat Geeta, etc. have been duly incorporated into the curricula of different courses being run in the University for the holistic development of students. Gender Equality No one should have poorer life chances because of the way they were born, where they come from, what they believe, or whether they have a disability. Upholding the commitment of JCBOSE UST to provide gender neutral environment, Women Empowerment cell is functioning in the University to empower the female students and staff members and enlighten them with their rights and duties. Also University has many courses related to this as a part of various UG and PG programmes Human values and ethics JCBOSE UST, have brought out the fundamental goodness of human beings through the engagement of students in mandatory courses like Human Values & Professional Ethics and Universal Human Values: Understanding Harmony. These courses have been introduced so that students provide sustainable solutions while keeping human. The University is running as many as 99 courses related that aim to inculcate values, ethics and socially responsible qualities in the students. VIVEKANAND MANCH', is the social and cultural club that strives to sensitize the future engineers, scientists, technocrats, entrepreneurs and business leaders from the university towards their social responsibilities as good human beings. Students of the club organize various events like street plays, awareness campaigns, debates, charity for poor etc. at regular intervals.

B.Tech Program in Hindi has been introduced in the University in the academic year 2020-2021 to preserve and disseminate Indian culture and values in the students. University has also introduced Human Values and ethics as a mandatory subject in PhD.

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

The University strives for excellence in all facets and contributes to the development of science and technology by synthesizing teaching, research, and creative activities. The University makes every effort to realize its mission to provide an enviable research environment and state-of-the-art technological exposure to its scholars. The design and development of the curriculum is a democratic process with the entire faculty contributing to the introduction, innovation, and revision of the syllabi. Outcome based methodology is incorporated in all the programs. The curriculum and instructional strategies are reviewed periodically at defined stages to meet the ongoing market demands. Programme Outcomes are assessed to identify educational and operational gaps and strategic action plans are prepared accordingly. Teaching-learning processes are continually improved based on students feedback and interactions.

Feedback on Curricula is taken from all the stakeholders of the university with the aim to incorporate the suggestions in designing its curriculum. More than 90% of courses are based on skill development or generate employability/ entrepreneurship. The university is committed to effective curriculum delivery through well planned and documented process that undergoes scrutiny through various bodies. Board of Studies and Academic Council. These bodies ensure that the curriculum is regularly updated to meet the ongoing continuous evolution in the culture, society, academia, and technology. All academic and research programs are in tune with the vision and mission statements of the University. JCBUST has well-defined procedures to design new curricula and revise/amend the existing curricula. For this purpose, the apex body is the Academic Council well supported by bodies including the Faculty concerned, Board of Studies of the concerned

subjects and the Departmental Committees. The learning activities are designed through Outcome-based approach with an aim to equip the students with knowledge, skill, values and attitude has been implemented. Departmental Committees along with various experts from industry and academia review the feedback obtained from various stakeholders to imply the cross sectional relevance of the curricula ranging from local to global needs. University has developed curriculum along with well-defined POs, PSOs, COs for all programs. The outcomes as stated have been integrated in curriculum and displayed on the University website to facilitate access to various stakeholders, including the teachers and students. The entire effort has been made in line with the broad guidelines of the statutory bodies such as UGC, AICTE, etc. The University has also incorporated courses like Artificial Intelligence (AI), Internet of Things(IoT), blockchain, robotics etc. in the curricula which are in line with the emerging technologies identified by AICTE.

#### 21.Distance education/online education:

In pandemic, University developed its own Digital Learning Management System (DLMS) to continue its teaching-learning process in online mode. It is integrated with University's ERP portal and can be accessed by students and teachers with their login. The links of some important platforms like Library e-Portal, National Digital Library, SWAYAM, NPTEL, e-Resources, Google Classrooms, etc. have also been integrated with the DLMS. It is having the facility to upload study material by teachers in the form of recorded lectures, study notes, assignments and online resources. Students can have 24x7 anytime, anywhere access to study material. Other additional features are: Online assignment submission, Online audio-textual group discussion forums for teacher-student interaction, Mail broadcasting facility for targeted groups, News/announcements broadcasting, Online test facility-Objective and subjective tests, Online scheduling facility of official meetings and live lectures, Overall administrative control on study material. The live online classes were conducted through DLMS and G-suite.

University also adopted continuous assessment process for internal assessment in which regular assignments and a series of tests were conducted.

J.C. Bose University of Science and Technology, YMCA, Faridabad has been featured consecutively sixth time in the top 100 institutions on SWAYAM-NPTEL Local Chapters. The University has shown consistent performance in the National Programme on Technology Enhanced Learning (NPTEL) and ranked 9th among more than 4000 institutions across the Country enrolled on it. The University has shown remarkable performance and enrolment on NPTEL, and scored highest "AAA" Grade on SWAYAM-NPTEL Local Chapters. As per the latest rating issued by NPTEL, J.C. Bose University is the only Educational Institution in Haryana which has secured its place in the top 100 SWAYAM-NPTEL Local Chapters (Jan - Dec 2021).

University also procured and launched its e-library Portal to provide e-books and study material to its students in online mode. The e-Library serves over 5 lacs text resources (e-books, e-journals, e-resources), provides e-books to students in this lock-down when physical books are unavailable, it provides single-window search facility to provide all the required learning contents via portal and its mobile App

Students of the university also continued their learning through SWAYAM-NPTEL platform for credit transfer and upgrading their skills. More than 2000 students earned credits through SWAYAM, which were also transferred to their transcripts.

### Extended Profile

1.Programme	
1.1 Number of programmes offered during the year:	64
1.2 Number of departments offering academic programmes	15
2.Student	
2.1 Number of students during the year	6767
2.2 Number of outgoing / final year students during the year:	1698
2.3 Number of students appeared in the University examination during the year	1974
2.4	89

Number of revaluation applications during the year	
<b>3.Academic</b>	
3.1 Number of courses in all Programmes during the year	4742
3.2 Number of full time teachers during the year	216
3.3 Number of sanctioned posts during the year	234
<b>4.Institution</b>	
4.1 Number of eligible applications received for admissions to all the Programmes during the year	57988
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	640
4.3 Total number of classrooms and seminar halls	83
4.4 Total number of computers in the campus for academic purpose	1096
4.5 Total expenditure excluding salary during the year (INR in lakhs)	330.64554 lakhs

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

JCBUST has well-defined procedures to design new curricula and revise/amend the existing curricula grounded by outcome-based approach in consultation with industry and academic experts. University has developed curriculum along with well-defined POs, PSOs, COs for all programs. Efforts has been made in line with the broad guidelines of the statutory bodies such as UGC, AICTE, etc. The University has incorporated courses like AI, IoT, blockchain, robotics etc. as identified as emerging technologies by AICTE. University is also offering various courses like B.Tech. CE with specialization in Data Science, EE with specialization in the Internet of Things (IoT), Electronics & Computer Engineering. Keeping in view of 'Skill India' University has launched various B.Voc. and PG Diploma programs. University has made significant contributions by imparting value-based quality education for the country's multicultural society, with emphasis on Natural Resources & Environment, Science and Technology, Social Justice & Women Empowerment. Curricula addresses: Digital India, Swatch Bharat Abhiyan, Unnat Bharat Abhiyan, Women Empowerment, and Skilling India missions. The MoUs and research links established with international universities for mutual visits, joint courses and supervision of research, organization of events and collaborative research. Through focused interventions the curricula is more relevant to newly introduced National Education Policy.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

24

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year**

**1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year**

2297

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.2 - Academic Flexibility**

**1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year**

280

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year**

64

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3 - Curriculum Enrichment**

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

No one should have poorer life chances because of the way they were born, where they come from, what they believe, or whether they have a disability. Upholding the commitment of JCBOSE UST to provide gender neutral environment, Women Empowerment cell empowers the female students and staff members and enlightens them with their rights and duties. Also University has many courses related to this as a part of various UG and PG programmes. JCBOSE UST, have mandatory courses like Human Values & Professional Ethics and Universal Human Values. The University is running 99 courses that aim to inculcate values, ethics and socially responsibility in the students. VIVEKANAND MANCH', is the social and cultural club to sensitize the future engineers, scientists, towards their social responsibilities as good human beings. In order to sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures and industry visits were organized for students. Many courses related to environment awareness are incorporated in the curriculum at UG and PG level. The University has imbibed different types of courses in the curriculum to inculcate general competencies like climate change, humanitarianism, character-building, holistic development for the students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year**

10

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.3 - Total number of students enrolled in the courses under 1.3.2 above**

**1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year**

2034

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>1.3.4 - Number of students undertaking field projects / research projects / internships during the year</b>	
1384	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>1.4 - Feedback System</b>	
<b>1.4.1 - Structured feedback for design and review of syllabus - semester wise / is received from Students Teachers Employers Alumni</b>	• All 4 of the above
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>1.4.2 - Feedback processes of the institution may be classified as follows</b>	• Feedback collected, analysed and action taken and feedback available on website
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Demand Ratio</b>	
<b>2.1.1.1 - Number of seats available during the year</b>	
2416	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)</b>	
<b>2.1.2.1 - Number of actual students admitted from the reserved categories during the year</b>	
640	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
<b>2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners</b>	
<p>The university assesses the learning levels of the students through the following programmes:</p> <ul style="list-style-type: none"> <li>• Induction and orientation programmes are conducted for newly admitted students.</li> <li>• Mentor-ship/Counselling system.</li> <li>• Each faculty assess the students by interaction during class hours through tests, assignments, presentations, seminars, project work, practical examinations etc.</li> <li>• The mentor-mentee mechanism helps in identifying the slow learning issues.</li> <li>• The faculty, understands the strengths and weakness of the students related to speaking skills, performing skills, writing skill, MCQ, demonstrations etc.,</li> </ul> <p>Programs to overcome slow learning issues include:</p> <ul style="list-style-type: none"> <li>• The add-on and remedial courses are conducted through evening/weekend classes.</li> <li>• Special assignments and notes are also provided to slow learners.</li> <li>• Special programmes are being conducted for nurturing/refining the communication skills.</li> <li>• As a part of the curriculum, credits can also be earned through MOOCs (Massive Open Online Courses) via the SWAYAM platform. Slow learners can pace up their studies by adopting MOOCs of their choice and can study anytime, anywhere.</li> </ul> <p>Programs enabling advanced learnings</p>	

- Free coaching and guidance for students, who aim to prepare for civil services examinations, is provided.
- E-journals and e-books in library
- Encouragement to participate in institutional level activities such as to participate in ERP/DLMS/Projects etc.
- Bright students are motivated to pursue MOOC courses.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	Nil

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
Nil	Nil

File Description	Documents
Upload relevant supporting document	No File Uploaded

### 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

For enhancing the learning experiences of students several Experiential Learning and Participative Learning methods are used by the university. Students have to undergo Internship programs as a part of their curriculum. Apart from pursuing certificate programs during summer breaks they can also participate in live field projects, workshops, simulations, prototyping, global immersions, case studies, seminars, etc. Students learn and execute their skills in a healthy competitive atmosphere through participation in events like Digi-Fiesta, Hackathon, Quiz Competitions etc. The Incubation Centre, of the University, acts as a facilitation centre for the students. Employment and Training Office (ETO) provides coaching not only on basic employability skills and business communication but also on personal productivity skills like Time Management, Problem Solving, and Managerial Skills. Students also get a chance to learn dance, meditation, yoga professionally through the designated clubs. Students get all Information and Communications Technology (ICT) support. The IQAC (Internal Quality Assurance Cell) of the University is engaged in quality enhancement on a continuous basis to promote the holistic development of students. The university has well-equipped labs in all departments. Special assignments/projects related to practical problems are given to students. Value Added Courses related to Industrial/research problems have been introduced for students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

ICT enabled facilities available in the University include Digital Classrooms, Interactive boards, LCD Projectors, Video Conferencing facility, Computer labs, seminar halls, auditorium, multimedia centre, smart classrooms and conference rooms. A separate Lecture Capturing System (LCS) facility to record good quality lectures of faculty members is also established.

The campus is fully connected with Wi-Fi and LAN with a capacity of 1 Gbps. Another BSNL line of capacity of 100 Mbps is also operational.

University Digital Learning Management System (DLMS), has the facility to upload recorded lectures, study notes, assignments, audio-textual group discussion forums, mail broadcasting facility, quick access to important e-learning platforms, objective and subjective tests facility and live lectures. The live online classes are also being conducted through G-suite. The faculty members are trained on Digital Pedagogies and Digital teaching-learning.

The University has its e-library Portal having e-books, e-journals, e-resources and study material for the students.

Students earn additional credits through the SWAYAM-NPTEL platform. The University provided free Internet Data packs to students for online classes.

The University has tied up with the Indian Institute of Remote Sensing Dehradun, and EdX for online outreach courses. The University is the Nodal Centre of Virtual labs by the Ministry of Education.

File Description	Documents
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Upload relevant supporting document	<a href="#">View File</a>
<b>2.3.3 - Ratio of students to mentor for academic and other related issues during the year</b>	
<b>2.3.3.1 - Number of mentors</b>	
212	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>2.4 - Teacher Profile and Quality</b>	
<b>2.4.1 - Total Number of full time teachers against sanctioned posts during the year</b>	
211	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded
<b>2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D<sup>o</sup>Lit. during the year</b>	
Nil	
File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded
<b>2.4.3 - Total teaching experience of full time teachers in the same institution during the year</b>	
<b>2.4.3.1 - Total experience of full-time teachers</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded
<b>2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year</b>	
11	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.5 - Evaluation Process and Reforms</b>	
<b>2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year</b>	
Nil	
<b>2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year</b>	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year</b>	
89	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution</b>	

In the university IT integration and reforms in the examination procedures have brought in considerable improvement in examination management system.

Through the registration and logins of students on the ERP, the students can access their records at any timewithout the intervention of any office. Further, filling the attendance of students on the ERP, online uploading of internal awards on ERP,online filling of examination and re-evaluation forms by the students on ERP, display of tentative date sheet on University website, online generation of admit card/hall tickets through ERP, processing of answer sheets, online display of results, re-evaluation forms through the web portal, universityLogins for management, availability of Course Syllabi, Gazettes, Result Branch Contact Information and ExaminationNotifications have improved the system.

The NAD project of theMinistry of Human Resource Development (MHRD) has been implemented in the University since2017. NAD enables issuance of Detailed Marks Card (DMCs) and Degrees through the securedigital portal of MHRD, which not only curbs/eliminates the fake degrees but also provides onlineverification of the authenticity of awards to the prospective employers.

DuringCOVID-19 situation the University has conducted examinations and evaluations in online modeusing both in-house developed Learning Management System and outsourced platform.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

The Program Educational Objectives (PEOs) are formulated by taking the interests of alltheir stakeholders into consideration. Program Outcomes (POs) and Program Specific Outcomes (PSOs) are also prepared in synchronization with PEOs keeping in mind the main objective thatwhat a learner should know or can do after completing the specific program.The POs and COs provide the proficiencies and abilities that students acquire along with the firm elementaryconcepts. These POs and COs are developed through Blooms.

The Teaching-Learning methodologies are planned out for ensuring thefulfilment of these outcomes. The continuous monitoring of the performance of each student is carried out through direct and indirect methods of assessment at every level of learning, to find out to what extent outcomes have beenachieved. Multiple direct and indirect methods are used to evaluate the outcomes of thestudents.POs, PSOs and COs for all the Choice Based CreditSystem (CBCS) courses are stated clearly in the preamble of the course curricula, and these are compiledin the form of syllabi booklets available at departmental library andUniversity website. The PEOs of the courses are also made visible at the prominent places/classrooms inthe specific department.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

The University evaluates the attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs). The POs are achieved through a curriculum which has mandatory courses as well as elective courses. Each course has defined COs that are mapped with the POs based on their mutual relevance in the form of a matrix for each course. To ensure the attainment of the POs and PSOs, various direct and indirect assessment methods like assignments, exams, interviews of stakeholders and surveys are followed. The direct assessment is composed of two sessional examinations, assignments and end-term examination is taken for evaluating the COs. The continuous assessments have a weightage of 25% while the weightage of end term examination is 75%.

The average attainment of COs, are mapped with particular POs and PSOs, this gives direct attainment of PO and PSO which are then compared with a predefined attainment targets of POs and PSOs. The indirect assessments are carried out by taking various survey questionnaires from students, parents, alumni, and employers. The survey information is evaluated to determine the strength of attainment level of POs & PSOs. Overall POs' attainment is calculated as 80% of direct

assessment added with 20% of the indirect assessment. The Academic Audit of the faculty members ensures that these assessments become the part of a continuous process.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.6.3 - Number of students passed during the year

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

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.7 - Student Satisfaction Survey

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

[Nil](#)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

#### 3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

The University has well defined Research Policy and the same is uploaded on the University Website.

JCBUST, YMCA Faridabad has inclination towards research and development of innovative technologies, and committed to provide best research environment and state-of-the-art technological exposure to its scholars. To foster research culture, JCBUST has been updating its Research Policy from time to time. With the aim in pursuit of excellence the existing research policy has been framed in 2020 duly passed through 20th meeting of Academic Council dated 31/8/2020.

JCBUST has introduced the following support schemes for UG/PG, PhD scholars and faculty members for enhancing research

- University Research Scholarship
- Provide seed money to carry out pilot studies and encourage faculty / researchers to identify funding sources for further research.
- Research Award policy for motivating the faculty/students for outstanding research
- MoUs with International Institutions

The following initiative has been taken by the University

1. The University has established Research & Development Cell as per guidelines of UGC
2. As per UGC Guidelines, a Research Advisory Committee (RAC) is being constituted for each Ph.D. scholar.
3. To invite foreign examiners for evaluation of Ph.D. thesis

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

18

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

11

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery

A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

6

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.2 - Resource Mobilization for Research

### 3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

0

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

115.17

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

10

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.3 - Innovation Ecosystem

### 3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

#### Incubation Centre:

J. C. Bose University of Science and Technology, YMCA, Faridabad has established J. C. Bose Technology Business Incubator (JCB-TBI) with the support of The Department of Information Technology Electronics & Communication, Haryana (DITECH and one of our own alumni Mr. Mohit Vohra, Founder and MD, MV Electrosystems Pvt Ltd. The university has created an ecosystem for innovation including JCB-TBI, supported by other initiatives including IoT Lab, Coworking Space, 3D printing setup for prototyping and testing, for creation and transfer of knowledge. At JCB-TBI we offer a wide range of Technical, Strategic Management and Business mentoring support by the expert faculty and experts from various industries. We regularly organize activities like seminars, start-up events, motivational and technical lectures, workshops and symposiums on Ideation, Start-up and Entrepreneurship, Intellectual Property Rights (IPR) and Industry-Academia Innovative practices

etc.to kindle the entrepreneurial spirit of our students and participants.We have set up a comprehensive Start-up Entrepreneurship Workshop Program to help our students to understand the deep nuances of business and all its components including market research, business planning, pitching to investors for successful implementation of their startup business ideas.We have conducted over 50 programs /competitions / workshops for Innovation and Entrepreneurship and Intellectual Property Rights

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

138

#### 3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

138

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

#### 3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

33

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

#### 3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
3. Plagiarism check
4. Research Advisory Committee

A. All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.3 - Number of Patents published/awarded during the year

#### 3.4.3.1 - Total number of Patents published/awarded year wise during the year

15

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.4 - Number of Ph.D's awarded per teacher during the year</b>	
<b>3.4.4.1 - How many Ph.D's are awarded during the year</b>	
22	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year</b>	
313	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.6 - Number of books and chapters in edited volumes published per teacher during the year</b>	
<b>3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year</b>	
48	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS</b>	D. Any 2 of the above
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed</b>	
Scopus	Web of Science
1044	580
File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>
<b>3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science - h-Index of the University</b>	
Scopus	Web of Science
14	12
File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>3.5 - Consultancy</b>	
3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy	

The University has a well-defined consultancy Policy and the same is uploaded on the University website.

#### PREAMBLE

J.C. Bose University of Science and Technology, YMCA, Faridabad has excellent teaching faculties who have in depth knowledge of their fields. More than 100 research scholars are currently doing research on various domains of engineering, technology and sciences. University wants to utilize their resources and highly qualified faculties for solving real life challenges by providing the consultancy services to the industries. With the aim to pursue of excellence the existing consultancy policy has been framed in 2020 duly passed through 19th meeting of Academic council dated 06/04/2020.

#### SCOPE OF THE POLICY

University actively encourages its faculty members and other academic staff members to undertake consultancy with industry and other comparable institutions of higher learning in order to create new knowledge and widening the research profile of its faculty and staff members.

#### OBJECTIVE OF THE POLICY

The primary objective of this policy is to establish a framework to support consultancy activities in University and to promote academic, industry and research interaction and to encourage and facilitate faculty to provide knowledge inputs sought by industry, government agencies or other academic / research organizations.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

44.08

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

#### 3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

In University, there are many clubs/societies which are organizing different type of activities at the adopted villages so that the people residing in these villages may take benefit of the same. The teams working on this are National Service Scheme, National Cadet Corps, Unnat Bharat Abhiyan, Eco Club etc. These clubs also organizes some of the activities/events in association with other departments of University for overall development of villages and university also deputed a Director Social Responsibilities under DSW office to work towards social responsibilities of the University. Each and every club/team of University is consisting of a number volunteer student of University working under guidance of faculty members who are Coordinator of that particular club. Student participates in all activities considering their social responsibility towards community. Following activities have been organized by University in the community.

#### List of Initiatives in 2020-2021

- Installation of Web camera in schools of adopted villages on 28 Jan 2021
- Share & Care on 28 Jan 2021
- Stand up against street harassment on 24 July 2021
- Webinar on healthy lifestyle and cancer prevention 26 June 2021
- Tree Plantation Drive on 17 July 2021 & 18 July 2021

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year

#### 3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

7

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

56

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**

4860

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7 - Collaboration

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

08

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year**

35

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

**4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.**

The University is spread over a lush green campus area of 20 acres which is lined up with teaching, non-teaching blocks and other amenities. There are 75 classrooms, 09 ICT enabled seminar halls and 80 laboratories in the University enabled with modern equipment/machines to provide a hands-on experience to students. The Language Lab is another important asset. There is a fully furnished computer center and media center in the University. It has designed its own Digital Learning Management System (DLMS) which proved to be a boon for both the students and teachers especially in this pandemic time. There is seamless service of internet connectivity University wide which is via 2 Leased Lines (1GBPS NKN & 100 MBPS BSNL). There are sophisticated IT facilities like 1096 Computers, 70 laptops, 150 Printers, 41 Projectors, 91 UPSs, 5 Smart TVs, 16 Smart Boards, 15 Wi-Fi Routers with 45 access points and 8 scanners. The University has a well-furnished library with 85461 books to provide effective learning resources to the students. Digital Library is accessed by students and faculty to access the required e-content. All the facilities specified are compatible with national and international standards as prescribed by regulatory bodies like AICTE and UGC.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

All the extracurricular, cultural and technical activities are conducted under the domain of the office of Dean Student Welfare (DSW) that serves as an interface between students and administration and works for the all-round personality growth of the students.

#### Sports & Games

The University has a large playing field and numerous sports equipments to support a wide variety of games, such as Cricket, Football, Volleyball, Handball, Hockey etc. There are also dedicated spaces for Indoor sport, including Table Tennis, Badminton, Chess and Carrom. A Multi- Purpose Hall (Shakultalam) has been developed to conduct cultural and sports activities at regular intervals. Separate gymnasium facilities in both boys' and girls' hostels which are well equipped with numerous modern machines for these exercises.

#### Cultural Activities

The University has as many as 18 technical and cultural clubs each of which is headed by two teacher coordinators and is run by a student committee consisting of secretaries and joint secretaries. The University has a spacious, majestic, fully air-conditioned auditorium equipped with all modern gadgetry and amenities. The University has dedicated practice rooms, green rooms etc. and it also motivates its students for participation in cultural events by providing them financial assistance for renting dresses, instruments etc.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.3 - Availability of general campus facilities and overall ambience

The University is connected to the national capital city both via road as well as rail. The Metro train is very easily accessible as the Metro station is at a distance of 100 meters from the University. There is a transport facility for day scholars from Palwal, Ballabgarh in cooperation with the State Transportation Department. The University administration is committed

to provide a healthy and safe environment to all its stakeholders. The security of students is carried through CCTV cameras installed at different locations in the campus. There are numerous fully functional fire extinguishers installed in the University. All the departments of the University have well-furnished cabins for the faculty members. The University is centrally equipped with Wi-Fi facility. It has an Incubation Center which offers a wide range of Technical, Strategic Management and Business mentoring support by the expert faculty and experts from various industries. There are 5 centers of excellence in the University. There is a well-equipped medical center to cater the medical emergency situations of both students and staff members. The University has a spacious auditorium, dedicated playground and well-maintained cafeteria. There is a separate hostel for both boys and girls in the University.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4241.78 Lakh

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 4.2 - Library as a Learning Resource

##### 4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

Pt. Deen Dayal Upadhyay Central Library of the University has automated its routine activities using Web Based LSEase Integrated Library Management System from LibSys. The library is well equipped with modern technologies like Bar Code Technology, Remote Access facility, Federated Search, use of Artificial Intelligence for searching through voice command, Mobile Apps for both Android as well as iOS users etc.

Web OPAC (Online Public Access Catalogue) facility is available to know the availability of books in the library. It can be accessed within campus and from outside of the campus (through e-Library Portal). Link to access for Web OPAC is available on University Website and e-Library portal.

More than 3400 e-journals are being subscribed by the library from the reputed publishers e.g. Elsevier's ScienceDirect, Taylor & Francis, IEEE, Springer Link and Nature to promote the research activities in the University. More than 7000 titles of e-books from McGraw-Hill, Pearson Education, Elsevier, Tritech and EBSCO are accessible to the users. Library also has access to millions of e-

books from the World eBook Library and South Asian Archive provided by INFLIBNET. The library is also a member of DELNET and EShodh Sindhu consortia.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e - journals e-books e-ShodhSindhu Shodhganga Databases**

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

66.04338 lakhs

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)**

667

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3 - IT Infrastructure**

**4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year**

83

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility**

Nil

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3.3 - Student - Computer ratio during the year**

Number of students	Number of Computers available to students for academic purposes
Nil	1063

**4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure**

<b>4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year</b>	
1193.60 Lakh	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.</b>	
<p>The University ensures proper maintenance and effective utilization of all of its infrastructural resources. Academic Support Facilities • Mentoring :Each faculty mentor adopts 25 students and looks after them regarding all the academic aspects. • Library :The central library of the University has a good collection of print and digital information resources which are well maintained. • Infrastructure facilities &amp;Computers: All the scientific equipment, computers, servers etc. are maintained by the manufacturer till the warranty period and later by technicians, qualified System Administrators and System Engineers. • ClassRooms : The university has a sufficient number of classrooms which are adequate in relation to academic requirements • Laboratories :All labs of the University adequately meet the academic requirements including teaching, research, innovation and entrepreneurship and are kept updated from time to time. Physical Support Facilities • Maintenance of Campus: Regular maintenance of electrical, plumbing, housekeeping and infrastructure in the entire University is supervised by the Executive Engineer SDE (Civil). • Fire Fighting/Resisting Kits: Fire safety equipments are installed at all locations as per government norms. • Separate Hostel for Boys and Girls: There are separate hostels for boys and girls with sufficient facilities for students.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>STUDENT SUPPORT AND PROGRESSION</b>	
<b>5.1 - Student Support</b>	
<b>5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)</b>	
1205	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year</b>	
5371	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology</b>	A. All of the above
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees</b>	• All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>5.2 - Student Progression</b>	
<b>5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)</b>	
<b>5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year</b>	
77	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.2.2 - Total number of placement of outgoing students during the year</b>	
559	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year</b>	
89	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.3 - Student Participation and Activities</b>	
<b>5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter - university/state/national/international events (award for a team event should be counted as one) during the year</b>	
44	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.3.2 - Presence of Student Council and its activities for institutional development and student welfare</b>	
<p>Student Council was constituted through elections in this University as per the decision of the state government in 2018. Members of the council have always tried to maintain positivity in the University campus by solving out students' problems The purpose of the student council is to give students an opportunity to develop leadership by organizing and carrying out activities at the university level.They help share studentideas, interests, and concerns with the University-wide community. The student council along with other students are continuously conducting the activities for institutional development such as coordinating in promoting values, ethics, and harmony. Students of this council also conduct various cultural, technical, sports activities and also perform duties related to social responsibility at the university level as well as participate in various outside University/Institutions activities. T</p> <p>Roles of the Student Council:</p> <ol style="list-style-type: none"> <li>1. To officially represent all the students of the University.</li> <li>2.To promote and encourage the involvement of students in organizing University activities.</li> <li>3. To organize educational and recreational activities for students.</li> <li>7. To propose activities to the University administration that would improve the quality of life in the University.</li> <li>8. To maintain good relations, out of mutual respect, with the University staff</li> </ol>	

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year</b>	
150	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.4 - Alumni Engagement</b>	
5.4.1 - The Alumni Association/Chapters (registered and functional)contributes significantly to the development of the institution through financial and other support services during the year	
<p>YMCA MOB Alumni Association was established in 1985. It works to connect alumniand build an unforgettable Institute experience through a diversity of events. MOB, (Meet Old Buddies), the Alumni Association is a dynamic, member-focused organization directed towards connecting the University community locally, nationally as well as globally, promoting a spirit of unity and loyalty among former students, and associates.Alumni &amp; Corporate Affairs Cell in collaboration with YMCA MOB has organized a number of Alumni Meets and many events that provided a platform for university alumnus/alumna to reunite with their batchmates, current students, and teaching faculties to share their views, experiences, feedback that played a vibrant role in designing policies, curriculum for betterment of student's progression and placements. The YMCA MOB Alumni Association is contributing their Alma Mater through Financial and nonfinancial means for the development of the university.</p> <p>Non- Financial Contribution:</p> <ul style="list-style-type: none"> <li>• Designing and refining the academic curricula as per the industrial needs either through their feedback or as members of the Board of Studies .</li> <li>• Experiential knowledge sharing</li> <li>• Participation as resource persons/ speakers in the various university and styudent related activities to spread awareness of the latest industrial trends.</li> </ul> <p>Financial Contribution:</p> <ol style="list-style-type: none"> <li>1. Providing Financial assistance for EWS/Needy Students .</li> </ol>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>5.4.2 - Alumni contribution during the year (INR in Lakhs)</b>	A. $\geq$ 5Lakhs
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>	
<b>6.1 - Institutional Vision and Leadership</b>	
6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance	
<p>VISION "J. C. Bose University of Science &amp; Technology, YMCA, Faridabad aspires to be a nationally and internationally acclaimed leader in technical and higher education in all spheres which transforms the lives of students through the integration of teaching, research, and characterbuilding". MISSION To contribute to the development of science and technology by synthesizing teaching, research, and creative activities. To provide an enviable research environment and state-of-the-art technological exposure to its scholars. To develop human potential to its fullest extent and make them emerge as world-class leaders in their professions and enthuse them towards their social responsibilities. The vision and the mission of the University are focused on the establishment and effective utilization of a system of wholesome and holistic learning. The institution has come a long way since its inception in 1969. The Institute has been upgraded to University status by Haryana State Legislature Act No. 21 of 2009. The Vision and Mission is defined keeping in view the objectives of the University enshrined in its Act. As per the provisions in the University Act, academic governance is carried out through various Deans, Chairpersons, and other officers to fulfill the Vision and Mission of the University. The University is planning and implementing developmental initiatives in tune with NEP 2020. Highly qualified and competent leaders at different levels of the University in the light of a well-defined system and organizational structure consistent with the Act, Statutes, and Ordinances of the University improve the academic and administrative effectiveness.</p>	

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management</b>	
<p>The top leadership of the University plays a role model to make a positive impact on all levels of functionaries by providing academic autonomy to its departments. Faculty representation on all the important decision-making bodies - the Court, the Executive Council, Academic Council, and Finance Committee- has been provided for. An effective internal coordination monitoring system is practiced through the Deans of various Faculties, Dean Academic Affairs, Dean Student Welfare, Chief Hostel Warden, Heads of the Teaching/ Administrative Departments, and other functionaries. In addition, different committees are constituted/nominated by the Vice Chancellor from time to time to guide and administer the University functioning both at the academic and administrative levels. At the departmental level, faculty are actively involved in academic decision-making. Decision-making through decentralization and participative management is also evident through faculties and students being well represented in various committees and cells. Committees and Cells are Central Purchase Committees, Building and Works Committee, Research Promotion Board, Library Committee, SC/ST Cell, etc. The University has created a governance plan that embodies its values of transparency, accountability, and efficiency. It is important for the University's Governing Bodies to be accountable to one another in order to ensure institutional good governance.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.2 - Strategy Development and Deployment</b>	
<b>6.2.1 - The institutional Strategic plan is effectively deployed</b>	
<p>The targets were chosen to align with the standards set up by NAAC, NIRF and as per NEP. Further, the strategic plan was formulated after considering the experiences and expectations of the stakeholders that further also aligns with the department objectives. The combined efforts towards a goal were key to achieve the feat, with the focus on promoting research culture and innovation.</p> <p>There is no doubt that the University represents 50 years of long legacy in the field of technical education. In the year 2015, there were only 6 Departments, broadly representing the Engineering disciplines and only 2 Science Courses at PG level out of the total 18 Courses at UG and PG level. Considering the need to introduce more courses from Science and other disciplines to promote diversity in courses, the University prepared and implemented plans in a phased manner by introducing new courses. As many as 36 new programs have been introduced at UG and PG levels in the last five years. The University has not only introduced new programs but also upgraded the ongoing programs in line with the skill requirement of the Industries like Data Science and IoT. Inter-disciplinary programs have been introduced at PG Level and stress is being given on Interdisciplinary research in Science and Technology.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.</b>	
<p>The University has a well-designed and efficient institutional mechanism to achieve the organizational objectives. Each and every activity of the University is governed by the Act, Statute, and rules/regulations/ordinances. As per the University Act the various authorities of the University are involved in decision making for implementation of its vision and mission. The Court reviews the broad policies and programs of the University and suggests measures for its improvement. The Executive Council is the principal executive body of the University. It administers the revenue, property, and funds of the University. It appoints/promotes various faculty members and other academic staff. The Academic Council exercises general supervision over the academic policies of the University. The Finance Committee examines the accounts and scrutinizes the proposals for expenditure and submits the annual budget to the Executive Council for approval. There are 7 faculties in the University comprising 14 Departments. Faculties coordinate the teaching and research work of the University and recommend courses and syllabi to the Academic Council. Every department has two boards of studies, namely: 'Board of UG Studies' and 'Board of PG Studies'. The boards recommend courses, schemes, and syllabi of studies and the appointment of paper setters/examiners. The University promptly attends to the general grievances and women's grievances through Grievance Redressal Cells. Recruitment and promotions are made following an established and transparent process as per UGC/Haryana Government norms.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.2.3 - Institution Implements e-governance in its areas of operations</b>	

<p><b>6.2.3.1 - e-governance is implemented covering following areas of operation</b></p> <ol style="list-style-type: none"> <li>1. Administration</li> <li>2. Finance and Accounts</li> <li>3. Student Admission and Support</li> <li>4. Examination</li> </ol>	
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File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

Yes, the University has a performance appraisal system, promotional avenues, and various welfare schemes for teaching and non-teaching staff. It follows Haryana Government rules for various welfare schemes. Apart from this, the University also has instituted its own schemes for welfare.

The University has put in place a well-designed and convenient self-appraisal system for its faculty. Each faculty member is required to submit a self-appraisal report (SAR) annually on the basis of parameters such as teaching hours, the number of subjects taught, research papers/articles/books published, conferences attended, papers presented in the conferences etc.

The University has Annual Confidential Report (ACR) system for the workshop staff and administrative staff. The chairpersons/heads of their respective departments critically study the SAR /ACR submitted by them and advise them on the areas in which they require guidance.

Welfare Measures for the Teaching & Non-teaching staff:

1. Advance from GPF for the construction/purchase of houses and vehicles.
2. Interest-free loan to employees for the purchase of wheat.
3. Marriage loan at concessional interest rates.
4. Reimbursement of expenditure of school education of two children @ 1125/- p.m. per child.
5. Pension scheme and defined pension scheme for employees in the service of the University before and after 2006.
6. Leave Travel Concession (LTC).
7. Six months maternity leave to female employees.
8. Child Care Leave for female employees for two surviving children up to the age of 18 years.
9. Full medical reimbursement for indoor treatment of employees/dependents of employees in the University impaneled hospitals.
10. Paternity leave.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

75

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

15

File Description	Documents
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Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)</b>	
144	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4 - Financial Management and Resource Mobilization</b>	
<b>6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources</b>	
<p>The University is poised to grow and make its mark in the global scenario by providing requisite funds and optimal use of resources. Since it is State Government University, the main sources of funds are student fees and Grant- in- aid from the State Government as per budgetary allocations. However for meeting the upcoming requirements for research and teaching-learning resources, the University also mobilizes its resources through Grant under section 12 B of UGC, Funded projects from AICTE, Research projects from BARC Mumbai, DST Government of India and DST Haryana, Funds from RUSA, Funds TEQIP III, Funds generated through consultancy offered, Industry linked laboratories and through the Alumni, who provide financial and non-financial support for various activities in the University.</p> <p>The University also mobilizes its resources from funds generated from self-financing and vocational courses run by the University. Funds received from the State government are spent on the payment of salary of teaching and non-teaching staff of the University and other activities. The budget is prepared to keep in mind the developmental criteria of the University; accordingly, provisions are made in the budget, which is prepared by a team of experts under the supervision of the Controller of Finance of the University and then approved by the Finance Committee before the fund is sanctioned. It is then deployed on different Heads of Expenditures in accordance with the approval.</p>	
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)</b>	
2900	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4.3 - Funds / Grants received from non-government bodies, individuals,philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)</b>	
36.29 lakh	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>6.4.4 - Institution conducts internal and external financial audits regularly</b>	
<p>Yes, the University has an audit department namely the local audit department, Haryana, under the administrative control of the finance department, Government of Haryana which conducts pre-audit as well as post-audit on day- to-day basis through a resident audit scheme headed by the Deputy Director (Audit) and other subordinate staff under the statutory provision of the act of the University.</p> <p>Internal audit of accounts of the University was introduced w.e.f. 01.04.11 vide govt. of Haryana, FD memo no. 14/100/2010-3FA dated 03.04.2010 and Director Local Audit, Haryana Chandigarh vide memo no. 14/100/2010-3FA dated 14.10.2010. Pre-audit and post-audit both are done by the Internal audit team. They audited University records from 2011 and submitted their yearly report to the Local Audit Department, Chandigarh, Haryana, and University authorities. The last audit report was submitted for 2019-20.</p> <p>Further, external audit is being conducted by AG Haryana on annual basis under the provision of Comptroller and Auditor General (CAG) of Indian guidelines in the form of a post-audit and also</p>	

submit its reports through Principal Accountant General (PAG) Haryana. External Audit is held within a period of 2-3 years. The First AG audit was held for the financial year April, 2011 to March, 2014. The last AG audit was held for the period April '16 to March'19. AG audit team submit their report to AG, Haryana, DGTE, and University authorities. The external audit is also done by Chartered Accountant appointed by University authorities.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The Internal Quality Assurance Cell (IQAC) of the University contributes significantly in coordination with other departments/branches by carrying out activities such as the conduct of AAA and analysis of responses for improvement, providing inputs for best practices in administration, collecting taking online/offline feedback from stakeholders that encompass all aspects of the university's functioning. The IQAC composition is as per the guidelines of the NAAC and it meets regularly. IQAC prepares Annual Quality Assurance Report (AQAR), verifies API score for CAS cases, and contributes to accreditation processes. As an initiative of IQAC, various policies have been prepared and implemented in the university in order to channelize the various university functions. Two of the practices institutionalized as a result of IQAC initiatives are academic and administrative audit (AAA) and Curriculum Feedback.

Additional information about the same is given in supporting document.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Conferences, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and students Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. Any 5 or all of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

J. C. Bose University of Science and Technology has taken necessary steps to enhance quality in the academics, research, governance, and administrative domains. The post accreditation quality enhancement initiatives implemented progressively during the last five years in the University include the following:

Quality initiatives in Academics expansion:

- 1.As many as 36 new programs at UG and PG Level have been introduced as a result number of students have increased to 5605 from 2589 in the year 2015.
- 2.More than 60 faculty members have been recruited during last five years to meet the increasing teaching load.
- 3.Number of research papers published in high quality SCI/WoS/Scopus Journals has increased significantly.
- 4.Many teachers have been awarded DST projects and one teacher has received AICTE Visvesvaraya Best Teacher Award 2021.
- 5.Secured NIRF Ranking of 120 in A.Y. 2020 and 127 in A.Y. 2021 under Engineering Category.
- 6.Benefitted by TEQIP-III Grant of Rs. 7.5 crore and RUSA Grant of Rs. 20 crores.
- 7.All eligible programs are NBA accredited.
- 8.Digital Learning Management System (DLMS) has been developed indigenously.

## Quality initiatives in Governance and Administration:

1. Efforts have been made to improve the working of various cells like Industrial Relations, Career and Counselling, Women Welfare, Alumni Affair, International Affair, Grievance Redressal, etc.
2. Students' admission, registration, and examinations are managed through an online portal. The University has its internally developed ERP system.
3. More than Sixty MoUs have been signed with other government/non-government institutions/industries.
4. Uploading of students' academic records on National Academic Depository (NAD).

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 - Institutional Values and Social Responsibilities****7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year****Safety and Security**

The University has a campus of 20 acres with a boundary wall all around its perimeter. Two gates, various blocks and hostels are manned by security guards at all times. All hostels and academic areas have CCTV installed to check any untoward incidents. A fully functional Health Centre is in place to offer medical care for minor issues and first aid. Further, there is availability of ambulance and University vehicles to transport sick girl-students to nearby hospitals. Every girl student installed the DURGA Mobile app. The university has signed a MoU with Haryana Kickboxing Association (HKA) to conduct a certification 'Self Defence Training Program' for girl students.

**Counselling**

The University is an active promoter of gender-equity initiatives and has conducted a number of extra-curricular activities (as detailed in the attached document) for promoting the same. The university has an Internal Complaint Committee (ICC) to check the menace of sexual harassment and violence against women and girls. University has provided the facility of counselling from psychologists, counsellor and psychiatrist through platform of COMFORT. BHAROSA is an initiative from the Dean Student welfare (DSW) office for resolving queries of students

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	<a href="https://jcboseust.ac.in/Women-Welfare-Cell">https://jcboseust.ac.in/Women-Welfare-Cell</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	<a href="https://jcboseust.ac.in/Women-Welfare-Cell">https://jcboseust.ac.in/Women-Welfare-Cell</a>

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

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

University policy on Waste Management and Green Initiatives revolves around 4Rs (Reduce, Reuse, Recycle and Recover) and supports Sustainable Development Goals SDG -3 'Good Health and Well-being' and SDG - 6 'Clean Water and Sanitation to All'. University follows 'Waste Hierarchical Approach' to manage its waste. University has installed a Biogas Plant with 0.75 cubic meter capacity. University has established a sewage treatment plant of 50KLD capacity based on MBBR Technology to treat the sewage generated in campus and an effluent treatment plant to treat wastewater containing chemicals coming from laboratories. Biomedical waste generated is collected in color-coded dustbins in University Health Centre as per Biomedical Waste Management Rule, 2016. University follows guidelines of E-waste Management Rules 2016 for management and disposal of old and obsolete tele-communications and computing/IT products, electronics items, etc. The biodegradable wastes are processed, treated and recycled through composting and biogas plants within the premises by converting them into compost, biogas and liquid fertilizer. Department of Environmental Science and Engineering has developed an in-house composting unit. There is no radioactive waste generation in

the premises. Further, the University has done MoU's with various authorized agencies for collection, treatment and disposal of garbage and E-waste management.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

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

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

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:**

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

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

The University promotes various activities to inculcate tolerance and harmony towards cultural, regional, linguistic and communal socioeconomic diversities among students and staff members. University celebrated Vaisakhi, popularly known as Baisakhi - the festival of harvest, with great fervor and gaiety to acquaint the students with the rich culture and heritage of India. The University fraternity contributed towards the upliftment of underprivileged children of construction labours engaged in various development projects of the University. Kargil Vijay Diwas was organized to commemorate the Azadi Ka Amrit Mahotsav. On the occasion of 129th birth anniversary of the father of library science in India, Padmashri Dr. S. R. Ranganathan, Pt. Deen Dayal Upadhyay Central Library, University celebrated Librarian's Day. University organised Fit

India Freedom Run 2.0 to mark the celebration of Azadi ka Amrit Mahotsav and to encourage the youth of the nation to take up fitness. The university organised cultural events and activities. University organized a colourful event to mark the NSS Day celebration in which More than 200 NSS volunteers and participants attended the event. University conducted Pulse Polio Campaign for the benefit of children of construction workers residing in the University.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

The J.C. Bose University of Sciences and Technology, YMCA, undertakes different initiatives by organizing various activities to sensitize all stakeholders to the constitutional obligation: Values, Rights, Duties and responsibilities of the citizen. On 26th November Constitution Day is celebrated at the university campus to sensitize about fundamental rights, duties, values and responsibilities of the citizens as stated in the Constitution of India. The University has introduced a Subject on the Constitution of India at the UG level across all engineering disciplines to create awareness and sensitize the students and employees towards constitutional obligation. Republic day is Celebrated on 26th Jan by organizing activities highlighting the importance of the Indian Constitution. The Student Induction Program is organized for newly admitted students of UG and PG students every year. There were lectures on Universal Human Values, Gita, Career Readiness, Role of Youth in community and self-management. University organized Blood Donation Camp in the University Campus through YRC and NSS. On the occasion, speakers also sensitized students about the importance of donating blood for the cause of saving valuable human lives and stated that blood donation is a life-giving act that saves many lives.

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

All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

The J.C. Bose University of Sciences and Technology, YMCA has aimed to inculcate values and nationalism in the students and staff by celebrating the national and international commemorative days and birth anniversaries of great Indian personalities. DSW office celebrated Republic Day and Independence Day in the university campus. . The University celebrates Independence as 'Vikas Parv' and dedicated various development projects costing to about Rs.70 crore. Netaji Subhas Chandra Bose Birth Anniversary is celebrated on 23rd January as Parkarm Diwas to pay tributes to Netaji Subhas Chandra Bose. NSS and DSW office of university celebrated There are other events like Foundation day, Constitution day, Guru Parv Celebration, etc. organized in the university campus. The Department of Mathematics organised an Expert Talk to commemorate the 134th Birth Anniversary of "Srinivasa Ramanujan" National Mathematics Day. Faculty of sciences celebrated "National Science Day" on 28 February. The International Women's Day was celebrated in the University campus and various events were organised to mark the occasion. The Department of Environmental Sciences celebrated International Mother Earth's Day in the university campus and organizes several activities including declamation, quiz, poster making competition and expert lectures.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

University has a dedicated web-based Learning Management system named "Digital Learning Management System (DLMS)" which is in-house developed. The key objective of this practice is to host and track online learning. Providing a virtual hub where learners can access course materials, DLMS aims to make contents accessible to remote learners, support blended and flipped learning environments; and provide a central location for learning across the university. This system provides a full suite of modules that supports a range of users, acts as a platform for online content creation and delivery in both asynchronous and synchronous modes. It offers classroom management, where teachers may curate and integrate course materials, articulate learning goals, align content and assessments, track studying progress, and create customized tests for students. It is used to manage all types of study material including lecture contents in the form of Power Point Presentations (PPTs),

Portable Document Format (PDFs), assignments and video lectures. At the student end, the system provides facilities to view the shared content, submit due assignments & tests, track their studying progress, and interact with their teachers. On the other hand, teachers can manage courses, schedule their time table, assess the assignments & tests, interact with the students, and schedule online classes.

### 7.3 - Institutional Distinctiveness

#### 7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The identity of J.C. Bose University of Science & Technology, YMCA, Faridabad lies in imparting cutting-edge technological education and Institute Industry connect. The importance of the Entrepreneurship and JCBUST Alumni network is visible from the fact that most of the industries in Faridabad region have been set up by the University Alumni. As a result of the initiatives taken by the University, alumni as early as 1985 had set up a registered alumni association by the name of YMCA MOB (Meet Old Buddies, [www.ycamob.com](http://www.ycamob.com)) Alumni Association, the registered University alumni database has already reached 10000 marks. The initiatives by the Alumni are coordinated via the Alumni and Corporate Affairs Cell and Training and Placement Cell of University. Various companies like Cadence Design System, Noida, Eicher Tractor, Bhopal, ETA Engineering, Tamil Nadu, etc. are our recruiting partners where our alumni are at senior positions. The companies of our alumni have signed or are in the process of signing MOUs, like Daikin Air-conditioning India Pvt. Ltd, Advanced Silicon Pvt. Ltd., CE Comfort Pvt. Ltd., Prime Electronics, etc. to help in capacity building process in terms of acquiring skills and calibration training.

#### 7.3.2 - Plan of action for the next academic year

##### Academic Activities

- Start new PG program
- Extending Central Instrumentation Laboratory: addition of more equipment's.
- Organise FDP/ Conference/Seminar/ Workshop/STC in various teaching departments
- Industry Interaction: At least one industrial visit per semester per class and inviting industry experts.
- Inculcation of Soft skills: Provision for session/training to every student.
- Bridging Gender Social Gap: Provision for coaching for competitive exams such as GATE etc., PDP sessions
- Recording Room: Recording room for online lecture creation
- Exam reforms as continuous process
- Library: Addition of resource, Greater Access to e-resources including ebooks, Journals etc.

##### Administrative Activities

- Conduct of Administrative Audit
- Conduct of Student Satisfaction Survey
- Advertise the faculty vacancy to improve the faculty student's ratio
- Improvements in Existing Infrastructure Plan: The University plan to convert more existing class rooms into smart class rooms, renovation of girls and boy hostel and upgrade central canteen. In addition, the institute plans to organise various online/offline activities for students including Students Induction Program, Culmyca (A regular extra/ co-curricular activities' event)

J. C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
YMCA, FARIDABAD

26.19.01

DEPARTMENT OF ELECTRICAL ENGG.

Date: 02/02/2023

**Subject: Administrative Approval to start Minor Degree / Certification Course/ Specialization/Diploma in "Electric Vehicles Technology" in the Department of Electrical Engineering from the session 2023-2024.**

EV Technology is attracting eyeballs worldwide to achieve the global goal of zero-carbon emission and sustainable development. India's National Electric Mobility Mission Plan 2020 to accelerate the use and manufacturing of hybrid and electric vehicles in India. An urgent need to transition to clean transportation since automotive pollution is wreaking havoc on the ecosystem.

Government is pushing deployment of Electric Vehicles & EV Charging Stations by providing capital subsidy through Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India, (FAME) India Scheme Phase II and state level initiatives.

Institutes & Universities must support these for education, training & research to harness the technical education eco-system through its experience in the industrial products and services.

Keeping in view of the above, Department of Electrical Engineering proposes to start Minor Degree /Certification Course/Specialization/Diploma in "Electric Vehicles Technology" from the session 2023-2024, as it is emerging area to cater the need of fuel and energy efficient vehicles.

A Minor Degree /Certification course allow students to explore interested programme other than their own and thus an opportunity to expand their breadth of learning in other disciplines. A Minor Degree /Certification course is an additional credential student may earn, if he /she does additional learning for 12-20 credits in a discipline other than his/her major discipline/parent department.

It is therefore requested to accord the administrative approval in principle to start the Minor Degree / Certification Course/Specialization/Diploma in "Electric Vehicles Technology" from the session 2023-2024 in the Department of Electrical Engineering. Credits required for the completion of the course will be as per AICTE norms. The financial implications will be as per University norms.

*Lakshmi*  
2/2/2023  
*Sakshi Kulkarni*  
(Coordinator)

*[Signature]*  
2/2/23  
(Nihar Goel)  
(Coordinator)

*[Signature]*  
(Rajesh K. Sharma)  
(Prof. Incharge)  
02/02/23  
Chairperson (EL)  
Department of Electrical Engineering  
J.C. Bose University of Science & Technology, YMCA, Faridabad

*[Signature]*  
MA 1.3.2.23  
Dean  
Faculty of Engineering and Technology  
J C Bose University of Sc. & Technology,  
YMCA, Faridabad

For approval, M.  
*[Signature]*  
Vice-Chancellor

VC Secret...  
ISS. NO. 321  
Date: 03/2/23  
95



### **Minutes of Internal Workshop of NEP-2020**

An internal workshop of NEP-2020 Implementation Committee was held on 17.01.2023 in the Boardroom of the University to review the progress/status of NEP implementation in the University.

The following members were present during the meeting:

1. Prof. S. K. Tomar, Vice Chancellor
2. Prof. Tilak Raj, Chairperson, NEP-2020 Implementation Committee
3. Prof. Sandeep Grover, Dean (Institution)
4. Prof. Naresh Chauhan, Director (R&D)
5. Prof. Ashutosh Dixit, Dean (Academic Affairs) & Director (IQAC)
6. Prof. C. K. Nagpal, Dean (Faculty of Informatics & Computing)
7. Prof. Arvind Gupta, Dean (Faculty of Interdisciplinary Studies & Research)
8. Prof. Rajesh Kumar Ahuja
9. Prof. Komal Bhatia
10. Prof. Atul Mishra, Dean (Faculty of Literature, Animation & Media Studies)
11. Prof. Neetu Gupta, Dean (Faculty of Sciences)
12. Prof. Manjeet Tomar, Chairman (MCA)
13. Dr. Maneesha Garg
14. Dr. Neelam Duhan, Director (UCC&DA)
15. Dr. Ravi Kumar, Convener
16. Dr. Neha Goyal, Co-Convener
17. Prof. M. L. Aggarwal, Dean (Faculty of Engineering & Technology) could not attend the meeting due to some health issues.

First of all, Prof. Tilak Raj, Chairperson of the committee communicated about the constitution of various sub-committees and their assigned work. It was appraised that the members of Implementation committee have been assigned to supervise these sub-committee's work/status reports.

Thereafter, the members explicated about the status report of various responsibilities assigned and discussed on the respective issues.

➤ **Choice Based Credit System**

Prof. Naresh Chauhan, Director (R&D), communicated that the University has already followed "Choice Based Credit System" since 2016 in all UG & PG programmes.

➤ **Academic Bank of Credit**

It is informed that more than 2183 students of the University have already been registered on ABC Portal and, other students are also encouraged to enroll/register them on the Portal.

➤ **Establishing Centre(s) of Excellence**

Prof. Naresh Chauhan informed that in order to establish the Centre of Excellence in the University, two proposals, one from the Department of Computer Sciences & one from Department of Life Sciences have been received.

The Vice Chancellor suggested that other departments should also come forward to give proposals for purchase of high-end equipment in order to enhance research. He also advised to encourage faculty members to submit good research proposals to various funding agencies.

Further, it was advised that in view of the COVID pandemic, the Department of Life Sciences should also focus on research in the areas of epidemiology, virology, diagnostics, vaccinology, infectious diseases and other relevant fields.

➤ **Amendment in Ph. D Ordinance**

Prof. Naresh Chauhan, Director (R&D) informed that the University is continuously focusing on Quality in Research work and also, the draft has been prepared for Ph. D after 4-year Under Graduate Program and, necessary amendments will be made in the Ph. D Ordinance, in accordance with the directions received from State Govt./UGC/AICTE etc. time-to-time.

➤ **Improving University Ranking at National and International Level**

Prof. Ashutosh Dixit, Dean (Academic Affairs) and Director (IQAC) appraised that the University has performed outstanding in various rankings at National Level. The University got 'A+' in NAAC, Performer band in ARIIA, 127<sup>th</sup> rank in NIRF and NBA Accreditation of all eligible Engineering UG programmes of the University. Further, the University always look forward for improvement in quality of Teaching-Learning, Research work and other aspects.

The Vice Chancellor advised Dean (Academic Affairs) to suggest some steps for improve quality education and betterment in various rankings at National as well as International Level.

➤ **“To Incorporate set of skills and values at each level of learning” and “Introduction of course on Ethical Values”**

Dean Academic Affairs informed that courses on Bhadwad Gita, Swami Vivekananda's Thoughts, Constitution of India, Human Ethics and Professional Values and Yoga & Naturopathy are running in the University to enhance the ethical values among the students.

Further, a lot of events such as Quiz contests, Robotic Games, 3-D painting, debates etc are being organized in the University by the various student clubs under the supervision of Dean Student Welfare in order to enhance the Problem-solving skills, creative thinking among the students.

The Vice Chancellor advised that some short-term certificated courses to promote local music, art, languages, photography etc. should be started with the help of local artists in the University to enhance the additional skills in the students.

Dean Academic Affairs informed that the University also started two B.Tech programmes in Hindi Language and the textbooks/reading contents for the same are available in bilingual form (English/Hindi).

➤ **Research-Intensive University**

There should be Research oriented environment in the University. Laboratories and Incubation Centre of the University should be more inclined towards a Research-Intensive University. It was unanimously decided that the University should incline more towards research and, the University should emerge as a “Research-Intensive University”.

➤ **Multiple Entry Multiple Exit**

Prof. Ashutosh Nigam, Dean (Faculty of Management Studies) presented the report on Multiple Entry Multiple Exit system. The Vice Chancellor asked the possibilities to adjust the credits of CBCS system and the new scheme of Multiple Entry-Exit system.

Prof. Nigam informed that there is a need of change of whole scheme and syllabus at each level of Entry and Exit, so that the requisite parameter must be covered at every level.

The Vice Chancellor directed all the Chairpersons to prepare a draft scheme which covers all such parameters, initially for the first-year students of different programmes.

➤ **To make University Multidisciplinary**

It was informed that the University is already offering courses of Multidisciplinary education under the Faculty of Interdisciplinary studies and Research and other faculties and also, more areas would be explored as and when new campus is ready.

➤ **Open Distance Learning (ODL)**

As per NEP-2020 guidelines, it was stated that all ODL Courses and their components leading to any diploma or degree will be of standards and quality equivalent to the highest quality programmes run by the University on its campus.

It was informed that the University is not offering any Distance Learning Course(s) (ODL) at present.

➤ **Institutional Development Plan**

Prof. C. K. Nagpal, Dean (FOIC), presented the report on Institutional Development Plan. After a lot of deliberations, the Vice Chancellor suggested that the University should plan to enhance in all directions such as development of New Campus, Concept of Open Library, Centre(s) of Excellences, 24-Hours Reading Hall, MoUs with nearby reputed research institutes such as “IOCL, RCB, NCCB” etc.

He further advised to Prof. C. K. Nagpal to finalize the “Institutional Development Plan”, so that it can be sent to State Govt.

➤ **Revamping curriculum, pedagogy, assessment, and student support**

Prof. Komal Bhatia, informed that University has started Ph.D program in most of the relevant fields to encourage the research work in the University. Seed Money Grant (upto Rs. 2 Lakh) has been provided to faculty members of various departments and most of the researchers are also getting fellowship from outside agencies and University itself.

More skill-based training, industrial/research laboratories visits, expert lectures on emerging areas should be conducted by the departments to enhance the real time knowledge among the students. Further, there is a need to give wide publicity (particularly in rural area) for improving enrolment in B.Tech (Hindi Medium) courses.

**Inclusion of Environmental Education:** Environmental Education has already been taught in every programme. Further, some Short-Term courses/Value Added Courses on Indology, Indian Languages, AYUSH, arts, music, history can be conducted in the departments.

**Inclusion of Global Citizenship:** The University should also promote the students' active participation in projects that address global issues of a social, political, economic, or environmental nature and empower learners of all ages to assume active roles, both locally and globally, in building more peaceful, tolerant, inclusive and secure societies.

➤ **Digitization**

The University has already a dedicated unit name “University Computer Centre & Digital Affairs Cell” responsible for establishing IT infrastructure and carrying out digitization of all processes in the University.

The University has National Optical Fiber Network connectivity and also has developed/deployed the various software such as Digital Learning Management System (DLMS), ERP Portal, Faculty Information Management System (FIMS), Feedback System, COVID-Helpdesk, Admission portal and University Website.

Currently University has more than 1100 Commuter Systems, 17 Digital Interactive panels, 9 Digital Notice Boards and more than 50 LED Projectors across various departments/labs/offices.

➤ **Internationalization:**

Prof. Atul Mishra, Dean (FLAMS) apprised that in the age of globalization, the University has broadened the education frontiers for international students in all university courses including science and journalism. University is also offering 15% supplementary seats under the foreign category in the field of Computer Engineering and 5% seats are reserved for the international students in all other courses under the Faculty of Sciences and Faculty of Management Studies.

To enhance students & faculty experience at the international level, the University had established sustainable partnerships with four internationally prestigious universities. The Memorandum of Understanding(s) signed between J.C. Bose University of Science and Technology and International Institutions have been listed below:

- University of North Texas, Dentin, Texas, U.S.A
- Mazandaran Institute of Technology, Babool, Iran
- “Aurel Vlaicu” University of Arad, Romania
- UiT The Arctic University of Norway.

Also, An MoU with "Yes Germany, Faridabad" for setting up a German language lab in the university campus to train and teach the German language to the students is in process and a bridge course for international students for learning the English language has been initiated with the Department of Liberal Arts and languages in 2021.

International faculty are being invited to deliver expert lectures in international conferences/Seminars/FDPs conducted by different departments/cells. Further, as a part of a holistic education, the subjects such as Universal Human Values, Message of Bhagvad Geeta, Constitution of India etc have already been introduced in the curricula of every course.

Faculty members of different department are members of different International professional societies (IEEE/IET/IAENG etc).

Also, “IEEE Student chapter” founded in 2016 in the University with the objective of providing students, the exposure and knowledge about various technologies and opportunities to work, learn and grow.

In order to disseminate the information to greater extent among foreign candidates, the online mode as well as offline mode of advertisements are carried every year.

➤ **Facilities for SEDGs Groups**

Dr. Maneesha Garg Informed that the University has SC/ST Welfare Cell, Equal Opportunity Cell and also Grievances Redressal Mechanism to provide high quality support to SEDGs groups.

University Health Centre is available in the University. Qualified & experienced physician and medical team has been appointed in the University in order to facilitate regular medical facilities to the students and staff of the University.

The University is committed to provide a healthy environment and ensure the availability of clean drinking water and to maintain hygiene in toilets/washrooms.

➤ **Facilities for the Staff and Students**

- Prof. Arvind Gupta, Dean (FOIDSR) informed that the University have proper counselling system for students for handling stress and emotional adjustments.
- University medical Doctor and team provides regular counselling to the students. Further, a psychiatrist also visits once in week for counselling of such issues of the staff/students.
- The University have Hostel facilities, Residential facilities, canteen facilities within the University campus.
- The University follows no discrimination and anti-harassment rules and, various cells such as Equal Opportunity cell, Grievances Cell have been set up.
- University have well established NCC/NSS wings in the campus.

➤ **Other facilities:**

Prof. Neetu Gupta, Dean (Faculty of Sciences) informed that the faculty follows the curriculum/syllabi duly approved by the BOS/BOF of the concerned department. Faculty members design the curriculum, at the departmental level within the approved framework, including textbook and reading material selections, assignments, and assessments.

The concept of blended learning/flipped classroom has been initiated during the lockdown period in the corona times and it has continued since then along with physical mode of teaching/learning. Also, the use of technology platforms such as SWAYAM/DIKSHA/MOOC is available for online training of teachers.

It was also informed that recently Research award (Cash) has been awarded to the faculty members, for publications in reputed journals.

Prof. Neetu Gupta informed that the teaching load of a semester has been assigned to faculty members as per U.G.C. norms. No additional teaching load has been given to the faculty members. However, faculty members are certainly given administrative duties at departmental as well as university level.

*The Vice Chancellor appreciated the efforts made by the stakeholders of the University and reports submitted by the Implementation committee. Further, he advised that a detailed report of the same should be prepared.*

The meeting ended with the thanks to the chair.

  
03.2.23

Prof. Tilak Raj  
Chairman, NEP-2020 Implementation Committee