



## YEARLY STATUS REPORT - 2020-2021

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	Techno India NJR Institute of Technology
• Name of the Head of the institution	Dr Pankaj Kumar Porwal
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02942650214
• Mobile No:	8696932800
• Registered e-mail	principal@technonjr.org
• Alternate e-mail	director@technonjr.org
• Address	PLOT SPL-T Bhamashah (RIICO) Industrial Area Kaladwas
• City/Town	Udaipur
• State/UT	Rajasthan
• Pin Code	313003
<b>2.Institutional status</b>	
• Type of Institution	Co-education
• Location	Urban
• Financial Status	Self-financing

• Name of the Affiliating University	Rajasthan Technical University Kota				
• Name of the IQAC Coordinator	Dr Jitendra Shreemali				
• Phone No.	02942650215				
• Alternate phone No.	8696932715				
• Mobile	8696932727				
• IQAC e-mail address	iqac@technonjr.org				
• Alternate e-mail address	jitendra.shreemali@technonjr.org				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>					
<b>4.Whether Academic Calendar prepared during the year?</b>	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://www.technonjr.org/academic-calender/">https://www.technonjr.org/academic-calender/</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B	2.5	Nil	Nil	Nil
<b>6.Date of Establishment of IQAC</b>			06/07/2020		
<b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
Nil	Nil	Nil	Nil	Nil	
<b>8.Whether composition of IQAC as per latest NAAC guidelines</b>			Yes		
• Upload latest notification of formation of IQAC			No File Uploaded		
<b>9.No. of IQAC meetings held during the year</b>			3		

<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?</li> </ul>	Yes	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	<a href="#">View File</a>	
<b>10. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
<p>1. Many areas of research were considered. But due to catastrophic impact of Covid-19 on health of individuals worldwide, IQAC discussed and decided to focus on research in the area of health informatics. 13 research papers have been published by faculties and students in the area of health informatics. Many deaths were recorded due to a shortage of ventilators. Hence the institute has designed ventilators in collaboration with PARC and Clearpack.</p>		
<p>2. All the courses were mapped with Course Outcomes, Program Outcomes and Program Specific Outcomes. The attainment calculation has been done for the branch of Computer Science and Engineering while this practice would soon be followed for other departments.</p>		
<p>3. Bloom's taxonomy should be involved in course plans so that various cognitive levels can be mapped with course outcomes.</p>		
<p>4. Infrastructure augmentation - In view of the COVID-19 situation it has become important to create infrastructure for online courses. Governing Council has approved the following- 1) subscription for zoom 2) setup of a digital studio and 3) Blended Classroom Proposal with Impartus Innovation (upGrad Campus) - To provide experiential teaching-learning to students, IQAC was looking for ways to adapt and modernize the teaching experience to allow diverse student population to learn as effectively as possible. With an ever-expanding universe of current and course-relevant content available both externally (through the Internet) and internally (on campus), college needs a way to provide a way for students and professors to effectively, in a less partitioned way, supplement their course materials with newly accessible and valuable content. We have received a solution proposal from Impartus Innovation Pvt ltd for 2</p>		

classroom course recording and streaming of content facilities. Content stored on the impartus media server can be accessed through Techno's campus network with remote access to the students. With media storage server can store videos in the cloud and allow students to access content without compromising content security.

5. Strong association with Udaipur Chamber of Commerce & Industry (UCCI )- a) The institute has helped UCCI in designing and delivering IT Readiness Programme to graduates of various colleges at its vocational training center b) The institute has supported UCCI in providing Oxygen Concentrator Machine to Govt. Hospitals and District Administration c) The institute has supported UCCI in the plantation of various RIICO industrial areas of Udaipur.

**12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year**

Plan of Action	Achievements/Outcomes
<p>Due to the current Covid-19 pandemic situation, research in medical informatics should be more prominent</p>	<p>The institute faculties and students have been actively involved in research in medical informatics. Many of them are pursuing PhD in this particular area.</p>
<p>The institute should be involved in social work related to COVID ERA</p>	<p>During the Covid-19 phase, throughout the country there was shortage of ventilators as a result of which many deaths were recorded. Hence the institute decided to work on design of low cost ventilators. The work has progressed well and the prototype has been developed in collaboration with Clearpack and PARC. The product is at the testing stage.</p>
<p>Industry ready trainings should be provided to the students</p>	<p>Based on the market need, the students have completed trainings in emerging area like Full Stack development, NVIDIA Deep Learning, Data Science, IBM Cloud application development and Google Cloud educator.</p>
<p>Teaching and learning process should be strengthened.</p>	<p>In all the branches Bloom's Taxonomy and CO-PO mapping to each cognitive level has been initiated and in CSE department, even CO-PO attainment and gap analysis have been done.</p>
<p>In the view of COVID-19 situation it has become important to create infrastructure for online courses.</p>	<p>Governing Council has approved the following requests forwarded by the IQAC- 1) subscription for zoom 2) Blended Classroom Proposal with Impartus Innovation (upGrad Campus). Digital Studio has already been setup for online recording and content delivery.</p>

<b>13. Whether the AQAR was placed before statutory body?</b>	<b>Yes</b>				
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>					
<table border="1"> <tr> <td>Name</td> <td>Date of meeting(s)</td> </tr> <tr> <td><b>IQAC</b></td> <td><b>24/12/2021</b></td> </tr> </table>		Name	Date of meeting(s)	<b>IQAC</b>	<b>24/12/2021</b>
Name	Date of meeting(s)				
<b>IQAC</b>	<b>24/12/2021</b>				
<b>14. Whether institutional data submitted to AISHE</b>					
<table border="1"> <tr> <td>Year</td> <td>Date of Submission</td> </tr> <tr> <td><b>2020-2021</b></td> <td><b>12/02/2022</b></td> </tr> </table>		Year	Date of Submission	<b>2020-2021</b>	<b>12/02/2022</b>
Year	Date of Submission				
<b>2020-2021</b>	<b>12/02/2022</b>				
<b>Extended Profile</b>					
<b>1. Programme</b>					
1.1 Number of courses offered by the institution across all programs during the year	<b>402</b>				
<table border="1"> <tr> <th style="background-color: #cccccc;">File Description</th> <th style="background-color: #cccccc;">Documents</th> </tr> <tr> <td>Data Template</td> <td style="text-align: center;"><a href="#">View File</a></td> </tr> </table>		File Description	Documents	Data Template	<a href="#">View File</a>
File Description	Documents				
Data Template	<a href="#">View File</a>				
<b>2. Student</b>					
2.1 Number of students during the year	<b>586</b>				
<table border="1"> <tr> <th style="background-color: #cccccc;">File Description</th> <th style="background-color: #cccccc;">Documents</th> </tr> <tr> <td>Data Template</td> <td style="text-align: center;"><a href="#">View File</a></td> </tr> </table>		File Description	Documents	Data Template	<a href="#">View File</a>
File Description	Documents				
Data Template	<a href="#">View File</a>				
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	<b>195</b>				
<table border="1"> <tr> <th style="background-color: #cccccc;">File Description</th> <th style="background-color: #cccccc;">Documents</th> </tr> <tr> <td>Data Template</td> <td style="text-align: center;"><a href="#">View File</a></td> </tr> </table>		File Description	Documents	Data Template	<a href="#">View File</a>
File Description	Documents				
Data Template	<a href="#">View File</a>				

2.3	166
Number of outgoing/ final year students during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>3.Academic</b>	
3.1	73
Number of full time teachers during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
3.2	75
Number of Sanctioned posts during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>4.Institution</b>	
4.1	26
Total number of Classrooms and Seminar halls	
4.2	128.93023
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	450
Total number of computers on campus for academic purposes	
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curricular Planning and Implementation</b>	
1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process	
1. Curriculum and delivery - Techno India NJR Institute of	



Technology (affiliated to Rajasthan Technical University Kota) adheres to the delivery of syllabi and beyond the syllabi in a structured manner. The institute follows a well-planned documented process of curriculum delivery. Before commencement of each Academic Year, University gives the pathway regarding the date of commencement of each semester, Practical Examinations, end of Semester Examination in the form of Academic Calendar. The Academic Calendar of the institute, based on the university guidelines is then prepared and given to all the departments. A departmental meeting is then conducted by the respective Head of Department with the faculty and staff members to discuss the Academic Calendar, teaching load distribution, timetable, and disseminate the course of action for the semester. The Head of each department follows the given Academic Calendar and load distribution, prepare the timetable for the class and various courses of the program. Accordingly, the students are informed about the semester Academic Calendar through noticeboards and the institute website. Regular feedback on syllabus content and delivery is taken from stakeholders viz. employers, parents, alumni, faculty and students.

2. CO-PO Mapping - Each subject has a course plan where there is CO-PO Mapping. Based on CO-PO attainment, GAP analysis is identified and accordingly beyond the curriculum delivery is adopted. The institute follows project-based learning, The courses are being allocated to the faculty members as per expertise and option. The Head prepares the class routine. Each subject has a proper course outline along with program outcome and course outcome. Each faculty maintains a course file and it includes a course plan, application-oriented assignments, question bank and performance metrics of the students.

3. Beyond the syllabus activity- It is one of the rare institutes which focuses on hands-on industry-ready courses that are being taught apart from RTU syllabi and time table has been framed accordingly. The students have also undergone many online free courses offered by Coursera, NPTEL and also the faculties are equally upgrading their knowledge by virtue of this exercise. The Institute has a well-planned monitoring system and the performance of a student is always being monitored both from an examination and industry-ready course point of view. Various Course Delivery Methods are Lectures, Class presentations and Tutorials. Hands-on demonstrations is one of the key strengths of the faculties. Simulations need to be used to explain the concepts in a better way. eLearning aspects include identifying online resources for self-learning, Learning management system (LMS) materials, NPTEL videos, Case Studies / Technical reports, webinars, IIT Bombay spoken



tutorial. Institute mentor-mentee scheme is in place for counselling of the student and it helps to resolve their academic and personal queries. The institute and Faculty members adopt numerous policies for bridging the knowledge gap of the enrolled 'weak' students to enable them to cope with the programme of their choices as well as promote, reward and facilitate 'advanced' learners. This includes mentorship, tutorials and remedial teaching. The entire approach is student-centric.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://igac.technonjr.org/agar/202021/partb/Supportings/1.1.1/">https://igac.technonjr.org/agar/202021/partb/Supportings/1.1.1/</a>

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

Being an affiliated institution, Techno India NJR Institute of Technology adopts the curriculum designed by Rajasthan Technical University (RTU), Kota. The institute strictly follows the academic calendar which entails the date of commencement of the academic session, submission of mid-term exam marks, semester duration, internal assessment tests, practical exam schedule, preparation holidays, final semester examinations etc. The institute has a continuous internal evaluation system. The faculties used to take assignments, quizzes, viva and two Midterm examinations. The question papers are mapped to CO and while evaluating, the CO-PO attainment is calculated. Accordingly remedial courses / beyond the syllabus activities are organized. All types of mid-term and assignments/viva/quizzes are planned before the commencement of each semester. The institution prepares Academic Calendar with reference to its affiliating RTU's academic calendar at the start of each semester. For laboratory subjects also the faculties conduct viva several times until the student gets hold of the subject. The students who are a little slow in their grasping as compared to their counterparts are identified on the basis of their class participation, pass percentage, classroom performance, regularity in the submission of assignments, punctuality and personal interactions. The institute through its teachers handles it sensitively and pays required attention to learners with various paces. The sitting arrangement of examination is notified through the official notice board. Examination Committee executes the centralized evaluation process with monitoring. CCTV cameras are

deployed at the central examination hall for written examinations and laboratories to monitor the online examinations. The faculty discusses the marking scheme and model answers with the students and resolves their queries. The students can see their respective answer sheets and discuss their queries with the concerned staff. Once students are satisfied with the evaluation process the marks are submitted to the exam cell.

File Description	Documents
Upload relevant supporting documents	<a href="#">View File</a>
Link for Additional information	Nil

**1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.**  
**Academic council/BoS of Affiliating University**  
**Setting of question papers for UG/PG programs**  
**Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**  
**Assessment /evaluation process of the affiliating University**

C. Any 2 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	No File Uploaded

## 1.2 - Academic Flexibility

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

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

5

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

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

58

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

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

3684

#### 1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

3684

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<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

Our Institution integrates Cross-cutting issues of the society like Moral Values, Human Values, Professional Ethics, Ethical Values

Gender Equality, Environmental Awareness, which are inseparable parts of our curriculum.

Moral Values, Human Values & Professional Ethics - During the induction programme, the importance of moral values and ethics are conveyed to the students. In the BTech syllabus in the first year, there is a subject (1FY1-05/ 2FY1-05: Human Values) and also there is a practical course in the final year on Social Outreach, Discipline and Extracurricular Activities (7XX8-00 / 8XX8-00). Students will be able to understand the importance of ethics and values in their personal, social & professional life after studying these courses. These subjects provide a free environment for inculcating values and developing ethical competence among the students. It is in response to a long-felt and urgent need to integrate value education with decision-making skills in their personal, social and professional life. College celebrates days of National and International importance as Republic day, Women's Day, Independence Day, Teacher`s day, Human Rights Day, International Yoga Day etc. These celebrations nurture the moral, ethical and social values in the students.

Gender Sensitization - The college has a Women Grievance Cell and Grievance Redressal Cell to provide counselling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty. The college campus is secured with CCTV and high-level security. There is separate Boys & Girls hostel (In-campus) for providing a safe environment for all students.

Environment & Ecology - University prescribed this course for creating awareness and developing the importance of the environment among students. Awareness about Environment is necessary for the protection of the environment and survival of human life. There are subjects offered in open electives viz. Environmental Engineering and Disaster Management, Sustainable Engineering, Environmental Impact Analysis, The College have an integrated rainwater harvesting System along with STP. The wastewater is reused for gardening on the college campus. The STP water is also used for floor cleaning and washing purposes. There is an extensive ongoing tree plantation program. College celebrates the day of National importance as Earth day, Environment day. The college organizes workshops/ seminars on Environment & Ecology to make students aware of the efficient use of natural resources.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	<a href="#">View File</a>

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

58

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View File</a>
MoU's with relevant organizations for these courses, if any	<a href="#">View File</a>
Number of courses that include experiential learning through project work/field work/internship (Data Template)	<a href="#">View File</a>

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

385

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

## 1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution

A. All of the above

**from the following stakeholders Students  
Teachers Employers Alumni**

File Description	Documents
URL for stakeholder feedback report	<a href="#">View File</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View File</a>
Any additional information(Upload)	No File Uploaded

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

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

File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="http://iqac.technonjr.org/agar/202021/partb/Supportings/Reports/GCMOM202021.pdf">http://iqac.technonjr.org/agar/202021/partb/Supportings/Reports/GCMOM202021.pdf</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment Number Number of students admitted during the year

##### 2.1.1.1 - Number of sanctioned seats during the year

**360**

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

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

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



56

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

## 2.2 - Catering to Student Diversity

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

The performance assessment of the students commences at the institute right at the beginning as the students enter the college. As per AICTE guidelines, a 15-days induction program is organized by the institute that includes various skill development activities to assess students' levels irrespective of their results of senior secondary. During that time it is initially assessed. Advanced and slow learners are categorized with the aid of continuous internal assessment based on the achievement of the set target of CO attainment in the internal examination, and practical examinations.

Slow learners - Mentoring of students is carried out to improve the academic performance of slow learners. Along with that, supplementing the class notes with additional (Revision) study material, discussing University questions and answers, and giving some specific assignments to them, help in improving their overall academic performance. After that, reassessment is done to assess the improvement level of the students. If the targets are not achieved after reassessment then counselling sessions are carried out to motivate them towards their improvement in academics.

Activities for Slow learners :

1. Remedial / Make-up classes/ Extra lectures
2. Personal Attention in teaching
3. Re-test for improvement
4. Extra practical sessions
5. Counseling - special hints and techniques
6. Special notes



7. Assignments and solving University question papers

8. Question bank

9. Guidance for Seminar/Project presentation

10. Mock oral/practical examination

11. Tutorials

Advanced learners - Advanced learners are encouraged to participate and present papers in various seminars/conferences/workshops. They are also encouraged to participate in inter-college and intra-college curricular and co-curricular activities, lab, institute events, and organizing committees. They are also motivated to participate in project developments, start-ups, and incubation centre activities.

Activities for Advanced learners :

1. Encouragement to complete NPTEL/Advanced certificate courses

2. Additional Library facilities

3. Participation in the incubation centre

4. Induction in Clubs like Robotics, Drone etc.

5. Motivation and guidance for higher studies (competitive exams)

6. Industrial visits and Industry sponsored/research project

7. Patent filing process

8. Research Publications

9. In house mini-projects

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

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

Number of Students	Number of Teachers
586	73

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

## 2.3 - Teaching- Learning Process

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

Student-centric teaching-learning methodologies have been effectively adopted by the Institute to develop the learning aspirations of students. The following measures are taken to make learning student-centric:

**Experiential learning:** The Institute focuses on imparting that kind of knowledge that enhances critical thinking and gives scope for creative imagination among students so that when they grow up they become responsible citizens of the country. This type of learning is provided to the students by the means of Practical and Designed Experiments in laboratories Projects development Industrial Training Incubation Centre activities Startups Workshops

**Participative learning:** In participative learning, students are encouraged to participate in various technical, cultural, and social events. Different sports activities are carried out in which students participate to exhibit talent in a variety of games to cultivate the spirit of unity and leadership. Students are encouraged to participate in inter-university competitions, technical competitions, sports competitions.

**Problem Solving Event:** Problem-solving skills are the most valued skills in the workforce. The faculty educates students with problem-solving skills like problem identification, selection of the right methodology for solving the problem, and evaluating the results before dissipation. Also, faculty members discuss the problems in the classroom and give assignments/tutorials to the students. Techno India NJR has implemented a Project-based learning model for education which has transformed learning. Projects are leveraged for impactful learning about the academic and industry topics (e.g. cloud, big data, AI/ML), and how such projects are executed (methodology) by industry. As a result, students are delighting professionals at the partnering industry organisations, particularly

in new technologies they themselves behind and learn from students. The students have several academic achievements to their credit besides high performance in University examinations. In contemporary areas like deep learning & computer vision, there are close to 40 students who have completed NVIDIA certification, over 30 who have completed Full Stack Developer course & Oracle certification and over 20 who have undergone IBM's Data Analytics course that provides inputs on big data analytics, social & web analytics as well as data mining & warehousing. The Institute helps students to inherit Entrepreneurial culture.

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

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

The Institute enriches the quality of education in several ways: by increasing learner motivation and engagement, by facilitating the acquisition of basic skills, and by enhancing teacher training with MOOC Courses, Increasing access to education (e.g. through virtual classrooms), Improving the quality of teaching and learning by providing Interactive Class Teaching (ICT) Tools, ICT tools with internet/ wifi connectivity has made this possible, interactive, instantaneous and simultaneous with classroom teaching. The libraries are more like the Hub of Information Resource Centres full of electronic resource packages like DELNET, NPTEL, In response to the growing needs, our institution exercises new ways of providing information by conducting workshops and guest lectures on the new developments. Institute's Seminar halls are also equipped with multimedia facilities using ICT tools. As per the recommendation of IQAC, Digital Studio is set up with the following equipment and facilities:

- XP-Pen Digital Writing Pad for digital whiteboard
- Audio-Visual Aids and Projector
- Logitech Conference setup enabled a digital studio for producing the video lectures.
- ZOOM, Microsoft Team, Google Meet & WebEx yearly subscription for online class during COVID
- Multimedia PC with high-speed internet connection for live telecasting of lecture.

File Description	Documents
Upload any additional information	No File Uploaded
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="https://www.technonjr.org/about/campus-at-glance/ict-facilities/">https://www.technonjr.org/about/campus-at-glance/ict-facilities/</a>

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

#### 2.3.3.1 - Number of mentors

38

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

### 2.4 - Teacher Profile and Quality

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

73

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

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

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

11

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

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

#### 2.4.3.1 - Total experience of full-time teachers

390

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

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

The faculty members conduct assignments, viva, quiz and two midterms for each subject. All question papers are mapped to CO-PO so that attainment calculation can be observed. Midterm Answer script after the evaluation is shown to students for their clarification. Students' Laboratory Recordbook contains a printed evaluation report assigning mark distribution on various criteria such as preparation, performance, viva-voce, extra work on the experiment. This work is constantly monitored by the Head of the respective department. The average of overall performance in practical work becomes the basis of internal evaluation of Practical. Industrial visits are arranged for the students and students submit the visit report which is also evaluated for term work marks. Participation and performance of students in sports and other co-curricular and cultural activities are given due weightage. As per university regulations, 50 or 25 marks are awarded for Social Outreach, Discipline & extra Curricular Activities (SODECA). For smooth conduction of internal examination, the institute has an examination

cell. Selection of Midterm papers and guidelines for internal assessment are notified by the exam cell. The exam cell collects all internal award list data and stores it in digital format for recovery/reference purposes.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

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

The Institute has a Department Academic Audit Committee which scrutinizes the question papers and answer scripts for correctness and uniformity. If any student has any grievance in the valuation process he/she can intimate his / her grievances either in person or in writing. The committee will sort out the grievance within three days. If a student is not happy with the outcome of the Department Academic Audit Committee, then in order to maintain transparency a rule is there whereby the student can appeal with proper justification to the Principal. If a candidate has any grievance regarding University examinations, the candidate submits an application through the Head and it will be forwarded to the University for redressal. The following measures are adopted for ensuring an efficient grievance redressal mechanism for the benefit of the students.

1. If a student is absent for a test for genuine reasons, he/she is given a chance for writing a retest at the discretion of the Director.
2. If a student happens to be on duty on the day of the test or examination, he/she is given an opportunity to take up a retest on a later date with a different question paper.
3. If a student is not satisfied with his / her performance in any particular test or examination, he/she is given an opportunity to take up a retest on a later date with a different question paper.
4. If a student could not attend a particular laboratory examination for genuine reasons, he/she is permitted to appear for the examination within the prescribed slot.



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

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

The institute is committed to providing the best education to students and acting as a catalyst in shaping a bright and sustainable future for the students. The Program outcomes are a set of competencies, skills, and abilities that the students develop, within their course of study. Programs offered are synchronized with the vision of the institute and thus program/course outcomes help in creating competent and skilled students. The vision, mission, program outcomes, and program educational objectives of different programs offered are displayed at various locations on the campus. With the help of this, the students can achieve critical and analytical competencies, creativity and problem solving, interpersonal skills, etc. The institute follows CO-PO mapping of each course along with Bloom's Taxonomy level. The CO-PSO mapping also is done by faculties both in theory subjects and labs. This helps the faculties for the estimation of gap analysis. Course Objectives (CO), Program outcomes (PO) and Program-specific outcomes (PSO) have been defined by every department. At the beginning of every course, the faculty member discusses the course outcomes in the classroom as well as in the laboratory. Course Objectives (CO), Program Outcomes (PO) are published on the college website. Students awareness sessions are conducted periodically for the students to make them aware of the objectives.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all courses (exemplars from Glossary)	<a href="#">View File</a>

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

Internal assessment is the requirement of the continuous assessment



and is essential for the fulfilment of the COs, POs/PSOs. The institute follows Outcome Based Education which evaluates the performance, knowledge, and skills of the student through Course Outcomes, Program Outcomes, and Program Specific Outcomes. According to Bloom's taxonomy, course outcomes of all the subjects are designed individually and mapping of CO-PO/PSO is carried out for each course. IQAC deals with the effective implementation of the evaluation reforms regarding the attainment of course outcomes, programme outcomes, and programme specific outcomes. After the result declaration of RTU, subject-wise result analysis is prepared by the respective department. If the subject is having results greater than 65% in external and 75% in internal exams, then it is considered that the attainment of that particular subject is achieved. If the result is below this percentage, then the action taken for the improvement of the attainment is defined by the department. The institute also calculated the indirect attainment part with the feedback of different stakeholders viz. employers, alumni, parents, students and faculties.

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

### 2.6.3 - Pass percentage of Students during the year

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

161

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may

design its own questionnaire) (results and details need to be provided as a weblink)

<http://igac.technonjr.org/agar/202021/partb/Supportings/Reports/SSS.pdf>

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

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

1.7

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	<a href="#">View File</a>
List of endowments / projects with details of grants(Data Template)	<a href="#">View File</a>

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

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

2

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	Nil

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during

**the year**

**21**

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### **3.2 - Research Publications and Awards**

**3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year**

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

**3**

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

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

**3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year**

**4**

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

### **3.3 - Extension Activities**

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

One of the fundamental philosophies of the Institute is to serve the neighbourhood community and sensitize students on various social issues, including clean water, environment protection, education to poor children, vocational training etc. We can define our work for society in 3 broad categories:

#### A. Extension Activities by NCC Cadets

- Tree Plantation in Government schools
- Yoga camp in government schools
- Cadet selected for PRE R.D.-Parade

#### B. Extension activities with Neighbourhood Government Schools:

Institute has been helping three neighbourhood Government Schools financially to upgrade their infrastructure and providing education support by students teaching school children Computers and English. Activities in 2020-21 included:

- Free Bus Service for Government School students resulted in a 100% increase in attendance in the school.
- Institute students teaching computer courses to government school children
- Tree plantation in Govt schools

C. Extension activities with Neighbourhood Society & local Chamber of Commerce: Institute has been working with local chambers of commerce and Charitable Foundations for undertaking social activities related to education, environment and social work like:

- R.O.Plant of 500 litres/ hour capacity for free distribution in the neighbourhood.
- Tree Plantation drive with Udaipur Chamber of Commerce and industry.
- Organizing Blood donation camps every year (100+ students every year)
- Distribution of food packets (200 packets/day) for 45 days during Covid-19 period 2020-21.
- Providing 5 LPH Oxygen Concentrator to Govt Hospital.

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

**3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year****3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year**

0

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of awards for extension activities in last 5 year(Data Template)	<a href="#">View File</a>
e-copy of the award letters	No File Uploaded

**3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year****3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

10

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	<a href="#">View File</a>

**3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year****3.3.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

535

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 3.4 - Collaboration

#### 3.4.1 - The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research etc during the year

30

File Description	Documents
e-copies of linkage related Document	<a href="#">View File</a>
Details of linkages with institutions/industries for internship (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

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

13

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

The institute regularly updates the physical infrastructure to meet AICTE / RTU Kota requirements. Overall, the college has 21 classrooms, 5 Tutorial Rooms, 39 laboratories for all the programmes. Modern laboratories are established to conduct regular practical classes. The institution has several smart Classrooms that are technology-enhanced classrooms that foster opportunities for teaching and learning by integrating learning technology, assistive listening devices, networking, and audio/visual capabilities. Smart classrooms at the institute have the following facilities to ease the teaching-learning process. There is a Provision for connecting PC's/laptops with laptops, Whiteboard, an LCD projector, a Wi-Fi internet facility and Speakers. There are 18 Technology Enabled Classrooms with LAN/Wi-Fi facilities, LCD projectors etc., The smart classrooms and seminar Halls and open auditorium are used to conduct special programmes like seminars, workshops, symposiums, co-curricular and extracurricular activities. The laboratories are well-equipped with the latest equipment. Seminar halls, Department Libraries/Drawing Halls/ HOD, Faculty Cabins and restrooms are provided. The internet facility with 60 Mbps speed is available in the college campus with modern computing facilities of 477 computers with specialized software with LAN. The students can utilize the systems during lab hours to fulfil their academic needs. The college has a library with sufficient books and hard copies of journals. Digital Library used by students and faculty to access the required content. Besides a standby power generator, a 100 KVA solar panel is available on the campus. Institute buses are operated for both staff and students, which cover almost all regions of Udaipur. Various clubs offer a mixture of technical and non-technical activities to develop the organizational skills of the students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

The students of the institute participate in cultural activities at the state and national levels. This not only sharpens and develops the creative skills of the students but also create awareness about



social issues amongst the students. Cultural activities are essential for the all-around personality development of the students which in turn enables them to achieve excellence in their careers. To promote sports and games the institution has outdoor games facilities. With the aim to encourage sports practices, sports activities are offered and a sports timetable is made. A spacious and well-equipped outdoor play area on the campus ensures effective training for players. The outdoor playground is utilized for playing cricket, football, volleyball, basketball, kabaddi, golf. The cultural infrastructure includes OT1, OT2 and Techno Circle. The area of the playground is useful for conducting various Intra & inter-college sports events and annual sports meet. Special facilities such as separate rooms for Table Tennis, Relaxation /Carom and Chess, first aid requirements, and equipment room are available. The gymnasium is set up having various types of equipment that are used for total body workouts. Faculty members and students can use the gym. The Yoga Mandap of our college moulds the overall personality of the students and faculty.

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

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

26

##### 4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

26

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

Lakhs)

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

10.4246

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

**4.2 - Library as a Learning Resource****4.2.1 - Library is automated using Integrated Library Management System (ILMS)**

Name of ILMS Software: IFW Campus ERP 2.0

Type of Automation: Fully Automate

ILMS Version: 2.0

Year of Automation: 2020-21

About ERP: IFW Campus ERP 2.0 is a Cloud-based ERP integrated solution that needs no installation because it is a subscription-based system.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://technonjr.ifwcampuserp.com/">https://technonjr.ifwcampuserp.com/</a>

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

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

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

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

1.45

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

23

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	<a href="#">View File</a>

#### 4.3 - IT Infrastructure

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

The institute possesses 16 mounted projectors, 2 portable projectors, 6 mounted LED TVs, 1 portable LED TV, one smart digital podium, Studio Online lecture VC. The audio systems have been installed / portable for each department. There are 18 Technology Enabled Classrooms with LAN/Wi-Fi facilities, LCD projectors etc.,

The smart classrooms and seminar Halls and open auditorium are used to conduct special programmes like seminars, workshops, symposiums, cocurricular and extracurricular activities. There is a dedicated video/lesson recording studio.

The existing network configuration includes -

- Tech routes 1725 router
- Sophos XG firewall
- D-Link DES 1226G
- Cisco Catalyst switch 2690
- D-Link switch DFS1224D
- D-Link switch DES104D
- D-Link switch DES1024D
- IBM Blade center
- IBM application server
- Hp server HP Pro 3090 MT
- Hp Xeon Server
- Hp Xeon Server ProLiant
- D-Link Wi-Fi DWL-2100AP
- TP-link WI-Fi
- Outdoor AP
- AIRPRO XDS9500S
- Xiaomi Mi
- Prompt leased line with fibre connectivity of 30 Mbps
- BSNL Broadband connection of 5 Mbps
- Jio Fiber connection 100 Mbps

The existing computing resource information is as follows -

- OMegha Cumulus Cloud Server (On-Campus Cloud)
- HW component - Compute profile, 2 x 8 = 16 Physical CPU cores, 32 Logical CPU Cores, 256 MEM (GB), 3096 Disk(GB), 2 NICs, 10 TP per NIC (Gbps)

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

#### 4.3.2 - Number of Computers

450

File Description	Documents
Upload any additional information	No File Uploaded
Student – computer ratio	<a href="#">View File</a>

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

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

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

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

48.28973

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts.	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

Institute makes budgetary provisions under different heads for maintaining and utilizing the campus infrastructure facilities. The Institute development committee assigned enough funds for maintenance and repairing. The allocated funds are utilized under the observation of various monitoring committees such as the Purchase committee, Repair and maintenance committee, Sports Committee, Library committee, Lab Maintenance Committee, Students

Feedback committee etc. of the college. To maintain and upkeep the infrastructure Institute facilities and equipment, the following activities are undertaken by the college:-

- There is Stock Maintenance Committee in every department, that maintains the stock register by physically verifying the items around the year.
- Department wise annual stock verification is done by the concerned Head of the Department.
- Regular maintenance of Computer Laboratory equipment is done by Laboratory Assistant along with Laboratory attendant and they are headed by Lab Maintenance Committee Convenor.
- Overall development of the campus is done by the Campus Discipline and Cleanliness Committee on the college.
- Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute Fourth Class Employees.
- College campus maintenance is monitored through regular inspection. There is a separate WhatsApp group on Maintenance.
- Upkeep of all facilities and cleanliness of the environment in men's and women's hostel is maintained through Hostel monitoring committee.
- Outsourcing is done for maintenance and repairing of IT infrastructures such as computers, internet facilities including Wi-Fi and broadband. Updating of software is done by lab assistants.
- Regular maintenance of the water cooler and a water purifier is done by an outsourcing agent.
- The maintenance of the reading room and stock verification of library books is done regularly by library staff.

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

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

##### 5.1.1.1 - Number of students benefited by scholarships and free ships provided by the



**Government during the year****34**

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

**5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year****5.1.2.1 - Total number of students benefitted by scholarships, free ships, etc provided by the institution / non- government agencies during the year****124**

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

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

**C. 2 of the above**

File Description	Documents
Link to institutional website	<a href="https://igac.technonjr.org/agar/202021/partb/Supportings/5.1.3/">https://igac.technonjr.org/agar/202021/partb/Supportings/5.1.3/</a>
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

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

85

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

85

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

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

**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of placement of outgoing students during the year

#### 5.2.1.1 - Number of outgoing students placed during the year

85

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

#### 5.2.2.1 - Number of outgoing student progression to higher education

6

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

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

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

**examinations) during the year**

1

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.3 - Student Participation and Activities****5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year****5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.**

3

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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

**Student Clubs-** This institute formed different Clubs for the involvement of the students in academic, co-curricular & extracurricular activities. These clubs help the students in learning planning, organization, analysis, estimation and execution along with troubleshooting, which helps in their comprehensive development. These clubs get involved outside of the classroom to reinforce the learning that happens inside the classroom. These clubs get valuable experience in project work and team building. The clubs include Toastmasters International - Techno Ariston, XR Club (AR/VR Club), CodeChef Coding Club and Google Developer Student Club

Udaipur - Techno India NJR, Entrepreneurial Club, xPollinator@Techno NJR, IoT and Robotics Club and Social Outreach Club.

Extra-curricular, Sports, Cultural and NCC Committee - One of the functional committees formed under the governance of Techno India NJR Institute of Technology, is the Sports committee comprising faculties from various departments and also student representatives of each class. They are allowed to participate in the bi-monthly meetings organized for reviewing and planning, short term and long term activities.

Hostel Committee - Twice a month, hostel committee meetings are conducted to sort out grievances of the students with respect to the functioning of the Hostel Mess and other amenities. Separate hostel committee meetings are conducted for the girls' hostel. Faculty members intervene to provide solutions pertaining to discipline, hygiene and other relevant issues.

File Description	Documents
Paste link for additional information	<a href="https://www.technonjr.org/wp-content/uploads/2022/02/StudentCommittees.pdf">https://www.technonjr.org/wp-content/uploads/2022/02/StudentCommittees.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

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

6

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	<a href="#">View File</a>

## 5.4 - Alumni Engagement

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

This institution is extremely proud of every member of its alumni. Most of them are successful in their careers in jobs, higher education and in the field of entrepreneurship. The main objectives of the association are: The alumni also give feedback on syllabus content and delivery. Many alumni contribute on their own will for the development of the institute. They also guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc. The alumni also help in training programs in entrepreneurship development, with resources available with the association. Many alumni doing higher studies abroad help the students in the admission process and also after taking admission. The alumni also promote the Industry-Institute interaction to bridge the gap between industry requirements and education offered and enhance students' employability. They also arrange and support placement activities for the students of the Institute. The alumni also help towards environmental conservation, anti-pollution activities and all possible ways of social awareness. They also help and guide students and ex-students of the Institute for anti-drug, anti-ragging, and any other anti-social activities.

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

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

D. 1 Lakhs - 3Lakhs

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

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

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

VISION- To provide highly affordable world-class engineering education to the students of this region.

MISSION -

1. To increase industry partnerships and industry alignment so that students are industry-ready by the time they complete the course. This will include outcome-based education, industry certifications and courses, Project-based learning, internships, participation in Hackathons etc. Students will be provided with the opportunity to work in the industry in the 7th and 8th semesters (on the lines of Practice School at BITS).
2. To focus on FDP's, Research papers and patents by faculty, faculty visits to universities in India and abroad for joint research and projects. the college will substantially finance these activities. Academic leave will be granted to faculty pursuing PhD when required so that most faculty complete their PhD in the next 5 years.
3. Techno India NJR has been founded by 2 Founder Trustees - one a housewife who lost her only child and husband and another a BITS Pilani graduate. The institute therefore will continue to emphasize Philanthropic activities in memory of departed souls and implement best practices of eminent Institutes like BITS.
4. In addition to 5% seats allocated by the Institute under the Tuition Fees Waiver Scheme (TFWS), Institute will continue to increase its allocation for Fee's concessions (under various heads up to 100% fees waiver) from the present level of around 10% of the revenue (between 40-50 lakh per annum) to around 25% of revenue in next 10years so that bright students from needy families get a chance to undertake engineering education.
5. To invest 80% of its surplus (Income minus expenditure) in the up gradation of its infrastructure for implementing new technologies.
6. To create more incubation centres within the campus from 2 at present to 5 in the next 5 years to promote Start-up culture in the institute. The institute will also invest up to 10% in the equity of the institute Start-ups.

All trustees of NJR Foundation and Management of educational Institutes promoted by NJR shall abide by the following core values :

- To run professionally managed educational institutes.



- To pursue excellence in teaching & research
- To follow best practices and provide transparency in the governance of institutes promoted by NJR.
- To follow a fair and just admission process so as to provide access to good education for all sections of society.
- To create world-class infrastructure in the Institutions promoted by the Foundation.
- To provide free education to the disadvantaged sections of society.

The Governing Council (GC) of the institute is the highest decision-making body of the Institute and it constitutes as per the guidelines of AICTE. The GC ensures the preparation of a Strategic Plan through a bottom-up approach involving all the stakeholders and implementation through a top-down approach. The GC through the director/principal ensures that all decisions on the matters such as admission, budget, infrastructure, Teaching-Learning Process and placements are in line with Institute's Vision, Mission and Quality Policy properly reach the stakeholders and ensure proper implementation of the same. The GC meets once or twice a year to review the performance and makes active contributions to the overall growth of the organization. All the meeting proceedings are duly recorded (minutes of the meeting) and the Action Taken Reports were also prepared and appraised to the GC regularly. The governance approach of the GC is truly democratic (participatory), de-centralized, and transparent. It promotes the participation of all stakeholders for the smooth functioning of the college. The GC ensures the involvement and contribution of all senior faculty by constituting various academic and administrative committees like Finance Committee, Board of Studies (BOS), Board of Examiners (BOE), Training and Placement Officer (TPO) and Heads of various Academic/Administrative committees. To strengthen administration, senior faculty members are deputed to attend various capacity building training programs. The GC also monitors the quality activities through the Institute Quality Assurance Cell (IQAC).

File Description	Documents
Paste link for additional information	<a href="http://www.technonjr.org/about/">http://www.technonjr.org/about/</a>
Upload any additional information	No File Uploaded

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

The institute follows the practice of decentralization in its true sense, in all the three important pillars of the institution, viz. academics, administration and extra-curricular activities. The practice of decentralization and participatory management is reflected in all the activities of the College through a strong and efficient Organogram of Committees/Societies which includes the IQAC, the Staff Council, Student Council, Time Table Committee and various Cultural Societies. All the major stakeholders of the College including Management, The Governing Body, The Principal, Teaching and Non-Teaching Staff, Parents, Students and Alumni work in a democratic way of governance following the tacit rules of accountability in the execution of their duties and responsibilities.

**Top Management Role:** Implementation of the Vision, Mission, and Values of the Institution. To formulate long term and short term plans for the overall college development To provide advice and consent on introducing new courses and to look after the need for infrastructural development. To provide equal and quality learning opportunities and extend the utility of all welfare schemes provided by colleges and governments. To provide the fund allocations for college and student extra training activities. To give advice on hiring for teaching and non-teaching positions.

**Principal Role:** To ensure the implementation of RTU-Kota and AICTE Guidelines in the college. To assist management in making policies and setting the right approach in achieving academic and administrative goals. To carry out the Vision and Mission of the college. To make short term and long term academic planning and extra training activities to ensure better results and good placements. To look after the overall college administration and prepare the annual budgets for college development and present it to management for approvals. Development of the college with the aim of raising the status of the institution with high potential and excellence. Managing and monitoring the academic activities, overall discipline, growth, development of the college and conducting University Examinations. Coordinating the activities with the RTU, Kota, AICTE, State Government Affiliation, Approvals, Admissions, Accreditation respectively and other allied works. Interacting with TPO to expand association with industries, leading institutions, research organizations, signing of MOUs etc.

**Head of the Department Role:** To assist and report the Principal on all matters pertaining to academics, administration, discipline, and research. To plan and monitor the syllabus coverage and ensure the

smooth conduction of examinations. To identify the training requirements as per branch of study (Technical and Non-Technical) and communicate to T&P Cell for the formulation of training. To conduct regular departmental meetings and coordinate with faculties to achieve the goals. To encourage students to publish research papers and help their recruitments. To ensure attendance of students with class teachers and promote students to participate in cultural activities of the college. Assessing the performance of each faculty in the department and submitting the assessment report to the Principal. To practice and follow the Class before Class (CBC).

Faculty: To adhere to the timetable this is sanctioned by the HOD and Principal and to work in accordance to the same. The teaching load is allotted by the HOD in accordance with the area of specialization of the faculty. To take part in academic mentoring, organizing co-curricular or extra-curricular activities, Research, and consultancy work. Every Faculty member should maintain the attendance record and personal file for all students.

File Description	Documents
Paste link for additional information	<a href="https://www.technonjr.org/wp-content/uploads/2021/10/organization-structure-min-2-1-2048x1311.jpg">https://www.technonjr.org/wp-content/uploads/2021/10/organization-structure-min-2-1-2048x1311.jpg</a>
Upload any additional information	No File Uploaded

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The institutional perspective plan aligns with the vision and mission of the institution which are the constant driving factors for improving academic quality policies and strategies. It is effectively deployed to focus on bringing quality improvements in the areas of: 1. Curricular Planning and Implementation 2. Teaching-Learning Processes 3. Research, Collaboration and Extension Activities 4. Academic infrastructural facilities 5. Student Support Activities and Student Progression 6. Internal Quality Assurance System 7. Institutional Values and Best Practices 8. Governance, Leadership and Management

At the beginning of the academic year, various bodies and committees chalk out the strategic plan of events and activities which will support the growth and development in these key areas and at the end of the year, a review is taken about implementation and the outcomes

of the perspective plans. One such broad area in which the Institutional Perspective and Strategic Plan have been successfully implemented is that of Teaching, Learning and Research. This has been achieved through the deployment of Action Plan for the following initiatives: 1. Faculty Development Programmes by RCC (Research and Collaboration Committee) and the Departments. 2. Introduction of innovative Add-on/Certificate Courses by the Add-on-Courses Committee. 3. Collaboration with Foreign Universities for Student international research internships and projects

4. MoUs signed with Industrial sectors for training, development and placements.

5. Emphasis on using the ICT tools for effective teaching and learning. 6. Research Training workshops are organized for students to equip them with the latest research methodologies. 7. Conferences and Seminars are organized by various departments to give exposure to both faculty and students about the latest global trends in academics, industry, sciences and environment.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The college has a well-structured organizational structure which is as follows ( top to bottom as per higher hierarchy structure) -

Governing Council

Director and Trustees

Principal

Deans

Head of the Departments

The Governing Council is the highest body of the college and it is

the supreme decision-making body. The Governing Council of the college meets once a year. In the governing body, several issues pertaining to various academic and administrative matters were taken-up, discussed and an appropriate decisions would be taken keeping the student development as its central agenda. In addition to the governing body, there are several statutory and other committees are in place to administer various activities related to academic, administrative and extension. The Principal, and HODs, with the help of faculty members, review the progress achieved and problems faced by various committees. The management has always welcomed the views and suggestions expressed by the faculties in taking the institution ahead. The presence of the faculty can be found in all the following committees :

1. Governing Council
2. Academic Advisory Committee
3. IQAC
4. Department Committee
5. Student Council
6. Student Grievance Redressal Cell (Internal Complaint Committee)
7. Women Empowerment & Anti-Sexual Harassment Cell
8. Anti-Ragging committee
9. Library Committee
10. Alumni Association
11. Hostel Committee
12. Canteen & Transport Committee
13. Sports & Cultural Committee
14. Discipline Committee

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the Institution webpage	<a href="https://www.technonjr.org/wp-content/uploads/2021/10/organization-structure-min-2-1-2048x1311.jpg">https://www.technonjr.org/wp-content/uploads/2021/10/organization-structure-min-2-1-2048x1311.jpg</a>
Upload any additional information	No File Uploaded

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

The institution is taking many welfare measures for all the teaching & non-teaching staff as they are the backbone of the institution. A few of the welfare measures are listed below:

- Free bus facilities for the staff members from all parts of Udaipur.
- Free accommodation for bachelor faculty inside the campus.
- Free medical checkup for teaching and non-teaching including covid-19 tests and vaccination.
- Financial assistance to meet emergency medical expenses of staff & family members.
- Medical leaves for the hospitalized staff members.
- The short term advance interest-free loan for housing and personal needs



- Free tea, coffee, milk
- Gym facility
- Yoga facility
- ESIC protection (medical and others) for staff having salaries below Rs 15000
- Maternity leave and other benefits for the staff members.
- Medical leaves.
- Support for higher education, certifications, training, attending conferences
- Free mobile facility for all staff members.
- Research papers and patents sponsorship.
- Faculty membership sponsorship of professional societies.

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

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

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

4

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

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

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

3



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

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

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

35

File Description	Documents
IQAC report summary	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#">View File</a>

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

The institution has a performance appraisal system for teaching staff based on -

- Subjects taken
- Weekly load
- Student feedback on teaching and punctuality

- Higher education / FDP / Certifications done
- Industry Project execution
- Results of students based on subjects taught
- Research papers / books / book chapters

The institution has a performance appraisal system for non-teaching staff based on -

1. Laboratories

1. Maintenance of equipment
2. Student feedback
3. Skill enhancement by training and other means
4. Projects are done by self and students

2. Other (Accounts / Administration)

1. Sincerity
2. Punctuality
3. Honesty
4. Completion of work in time
5. Minimum mistakes and error correction promptness
6. Behavior with students and faculties

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

## 6.4 - Financial Management and Resource Mobilization

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

The Institute has a strong financial system designed as per guidelines of "Report on Implementation of Accounting Standards in Educational Institutions of Department of Higher Education" by Ministry of Human Resource Development and include :

1. Maintenance of Ledger/register of :

- Fees Collection
- Caution Money
- Funds
- Scholarship
- Inventory Register department wise
- Hostel

- Buses
- Laboratory/Workshop

2. All accounting Standards are followed. 3. Cash Purchases are Limited. 4. All Statutory requirements are met. 5. Fees is not charged more than the State Fees committee recommendation 6. 85% of surplus funds are reinvested

One of the trustees of the institute is a Chartered Accountant who heads The internal Audit committee of the institute conducts internal audits as per Technical Guide on Internal Audit of Educational Institutions. Most of the accounting issues are resolved by this committee. In case of issues raised by External auditors, a meeting headed by the Institute Director who is also the Managing trustee of the foundation is called which is attended by the Accounts head and Department heads to provide satisfactory explanations to the objections raised by the auditors. The Institute director and Accounts head then meet external auditors to provide satisfactory explanations to the queries raised by them. In case they are unable to explain any issue satisfactorily, External auditors mention it in their Auditors' report.

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

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

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

30

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

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

Techno India NJR Institute of Technology was set up by Navdeep Jitendra Ranawat Charitable Foundation on the Land purchased from RIICO by the foundation from donations made by the Trustees and initial building and infrastructure were also created by funding from trustees so that there is no burden on the Institute in the initial stage. Initial 3 years of expansion was also done by trust funds and funds generated by the Institute. Both Founder Trustees work full time in the college without any salary for the first 6 years since inception and later on a low salary of Rs. 50,000/- per month. This has resulted in a healthy financial situation for the Institute which is supported by a High ranking of MSE -2 (Second highest ranking) by CRISIL for 3 years. The institute has generated the following amounts by services provided as under.

1. During the Covid-19 pandemic, as the institute hostels were empty, the institute got permission to house employees of nearby factories which generated an income of Rs. 30 lakh from Secure Meters Ltd in FY 2020-21.
2. Renting out college IT infrastructure to TCS for conducting various government / other exams. This activity resulted in revenue of Rs. 322371 in FY 2020-21.

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

## 6.5 - Internal Quality Assurance System

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

Techno India NJR Institute of Technology Udaipur has always strived to maintain a high standard of teaching and learning through a well-established quality assurance mechanism. A committee consisting of a Management Representative, Head of Institution, Head of Departments, senior faculty members, industry and student representatives as part of quality assurance mechanism since the inception of the college. The main role of this committee was to observe, measure, and assess the teaching-learning process and identify shortcomings. The committee then would recommend appropriate actions to overcome these deficiencies in a time-bound manner. When the institution decided to apply for NAAC, this committee was transformed into Internal Quality

Assurance Cell (IQAC) as per the guidelines of NAAC.

The few contributions are:

1. Many areas of research were considered. But due to the catastrophic impact of Covid-19 on the health of individuals worldwide, IQAC discussed focusing on research in the area of health informatics. 13 research papers have been published by faculties and students in this area.
2. Many deaths were recorded due to a shortage of ventilators. Hence the institute has designed ventilators in collaboration with PARC and Clear pack.
3. All the courses were mapped with Course Outcomes, Program Outcomes and Program Specific Outcomes. The attainment calculation has been done for a branch of Computer Science and Engineering while this practice would soon be followed for other departments.
4. Bloom's taxonomy should be involved in course plans so that various cognitive levels can be mapped with course outcomes.
5. Infrastructure augmentation - In view of the COVID-19 situation it has become important to create infrastructure for online courses. Governing Council has approved the following- 1) subscription for zoom 2) setup of a digital studio and 3) Blended Classroom Proposal with Impartus Innovation (upGrad Campus) - To provide experiential teaching-learning to students, IQAC was looking for ways to adapt and modernize the teaching experience to allow diverse student population to learn as effectively as possible. With an ever-expanding universe of current and course-relevant content available both externally (through the Internet) and internally (on campus), college needs a way to provide a way for students and professors to effectively, in a less partitioned way, supplement their course materials with newly accessible and valuable content. We have received a solution proposal from Impartus Innovation Pvt ltd for 2 classroom course recording and streaming of content facilities. Content stored on the Impartusmedia server can be accessed through Techno's campus network with remote access to the students. With media storage server can store videos in the cloud and allow students to access content without compromising content security.
6. Strong association with Udaipur Chamber of Commerce & Industry (UCCI )-
  1. The institute has helped UCCI in designing and delivering IT Readiness Programme to graduates of various colleges at its vocational training center

2. The institute has supported UCCI in providing Oxygen Concentrator Machine to Govt. Hospitals and District Administration
3. The institute has supported UCCI in the plantation of various RIICO industrial areas of Udaipur.

File Description	Documents
Paste link for additional information	<a href="http://iqac.technonjr.org/agar/202021/partb/Supportings/Reports/IQAC.pdf">http://iqac.technonjr.org/agar/202021/partb/Supportings/Reports/IQAC.pdf</a>
Upload any additional information	<a href="#">View File</a>

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The IQAC incremental improvement through various activities of the institute involves -

1. Due to the current Covid-19 pandemic situation, research in medical informatics is prominent. Hence the institute faculties and students have been actively involved in research in medical informatics. Many of them are pursuing PhD in this particular area.
2. During the Covid-19 phase, throughout the country, there was a shortage of ventilators as a result of which many deaths were recorded. Hence the institute decided to work on the design of low-cost ventilators. The work progressed and ultimately the product was developed in collaboration with Clearpack and PARC.
3. Based on the market need, the students have completed training in emerging areas like Full Stack development, NVIDIA Deep Learning, Data Science, IBM Cloud application development and Google Cloud educator.
4. The course files of other branches started CO-PO mapping with Bloom's Taxonomy.
5. In view of the COVID-19 situation, it has become important to create infrastructure for online courses. Governing Council has approved the following requests forwarded by the IQAC- 1) subscription for zoom 2) setup of a digital studio and 3) Blended Classroom Proposal with Impartus Innovation (upGrad Campus)



File Description	Documents
Paste link for additional information	<a href="http://iqac.technonjr.org/aqar/202021/partb/Supportings/Reports/IQAC.pdf">http://iqac.technonjr.org/aqar/202021/partb/Supportings/Reports/IQAC.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	<a href="http://iqac.technonjr.org/aqar/202021/partb/Supportings/Reports/IQAC.pdf">http://iqac.technonjr.org/aqar/202021/partb/Supportings/Reports/IQAC.pdf</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## **INSTITUTIONAL VALUES AND BEST PRACTICES**

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

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

The Institute is taking certain specific initiatives to facilitate gender equity and their development and empowerment. We have been promoting education for girls children and providing a safe and secure environment on the campus. As a result, the number of girl students batch-wise is satisfactory and the quantitative information is furnished as below:-

**Academic Year**



OBC

SC

ST

Minority

General

Boys

Girls

Boys

Girls

Boys

Girls

Boys

Girls

Boys

Girls

2020-21

26

05

05

00

00

00

15



11

53

18

Total students in 2021 - 133 out of which number of girls is 34 ( 25.56 % of girls in the batch)

Our Gender Positive Initiatives are -

- Women Empowerment Cell - The cell is active and consists of one woman faculty, one woman non-teaching staff and a few female students. The aim is to promote well-being and a culture of respect and equality for the female gender.
- Internal Complaint Committee - The committee consists of the Principal and three senior faculty members including one woman and the local police station in charge. This committee looks after any grievance and tries to solve it at the earliest.
- Anti-Ragging Committee - A dedicated anti-ragging committee is there. To date, the faculty members are so vigilant that no case of anti-ragging has been reported.
- Safety and Security - In order to maintain safety and security to the girl's students and woman faculties, a committee has been constituted for a redress of grievances. Our Internal Compliances committee stays alert all the time to prevent any sexual abuse to words students and female workers. We also focus on preventing this kind of harassment by using secret monitory services, which keep a keen eye on the entire campus. Deployment of CCTVs across the campus for round-the-clock surveillance. Separate timings for girls to utilize the GYM.
- Counselling - The major objective of the counselling centre is to facilitate the Academic, Emotional, Social and cognitive development of the students hence empowering them in their learning and personal development. Other than students, parents and teachers are also getting the benefits from the counsellor in order to pave a path for the students inside the campus and in their homes. Here at the institute, look into the most common reasons college students seek counselling; to achieve this goal college is taking several steps.
- Common Room- There is a dedicated common room separate for boys and girls.

File Description	Documents
Annual gender sensitization action plan	<a href="https://iqac.technonjr.org/aqar/202021/partb/Supportings/7.1.1/7.1.1Final.pdf">https://iqac.technonjr.org/aqar/202021/partb/Supportings/7.1.1/7.1.1Final.pdf</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://iqac.technonjr.org/aqar/202021/partb/Supportings/7.1.1/7.1.1Final.pdf">https://iqac.technonjr.org/aqar/202021/partb/Supportings/7.1.1/7.1.1Final.pdf</a>

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

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

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

**Solid Waste Management:** For solid waste, we have installed different types of containers throughout the campus. Two organic waste containers for plastic waste have been installed near both the canteens and workshop areas to collect the plastics and one Vermicompost container has been fixed at the parking area to cover up all the organic wastes.

**Liquid waste Management:** The institute has an efficient mechanism for conducting the disposal of wastewater into a pit for recharging the groundwater. The pit is located behind the open canteen and pipelines from all bathrooms, kitchen, washing areas discharges to it.

**Biomedical Waste & Hazardous waste:** Institute incorporates a unique room for these types of waste, situated away from the main building behind the canteens; the collection is related to biohazard wastes and is cleaned regularly on the basis of the quantity it holds.

**E-waste Management:** Institute hold a room for a collection of E-waste on the top floor and is been maintained by the IT staff of the institute

**Waste Recycling system:** For waste recycling Institute has adopted the mechanism of segregation of organic waste and plastic waste at the location of generation. Different types of waste containers have been installed throughout the campus

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	<a href="https://igac.technonjr.org/agar/202021/partb/Supportings/7.1.3/">https://igac.technonjr.org/agar/202021/partb/Supportings/7.1.3/</a>
Any other relevant information	<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**

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**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 with trees and plants

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

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

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

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

**7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

A. Any 4 or all of the above

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

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

To build a nation of youth who are noble in their attitude and morally responsible, the college organizes and conducted several activities to build and promote an environment for ethical, cultural, and spiritual values among the students and staff. To develop the emotional and religious feelings among the students and the faculty, commemorative days are celebrated on the campus with the initiative and support of the management for not only recreation and amusement but also to generate the feeling of oneness and social harmony. The college and its teacher and staff jointly celebrate the cultural and regional festivals, like New-year's day, Fresher Party, teacher's day, orientation and farewell program, Induction program, plantation, Yoga day, festivals like Diwali Holi Milan celebration, New Year celebration, Garba celebrations, etc. religious ritual activities are performed in the campus. Motivational lectures of eminent persons of the field are arranged for the all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration. The Farewell party is given to the passing out batch every year. The word fresher's party itself points towards Fresher's i.e., the event organised for freshers. This event is organised by Senior students to have good communication with the juniors and to welcome the juniors to their college. This event will have a full day party program on the campus or some auditorium. Juniors perform the ramp walk and show their talents. Some performances by senior students also. At the end of the party, Judges will give the tag of Mr Fresher and Mrs Fresher to the best performer of the day. Juniors should take advantage of this event. They should show their talents and get good communication with their seniors because the seniors are the person who will only help you in the future mainly at the

time of examination or selection of carrier in the future. Annual Inter College Techfest - Techjalsa is the inter-university fest of our college being organised based on different themes every year and it's going to be much higher level inviting 150+ engineering colleges and expecting a footfall of about 2000-3000 students This Event melt your brains in the web of competitions. A hunt to run all the manoeuvres on a single stage and we provide you with the unfathomable complexities which demand to overcome. Think hard, scrabble your mind and fit into the empty shells of boldness, dexterity and dogma to aim for extremely mind-blowing competitions in TechJalsa. When the lights go out in the rest of the campus, when the world slows down to take its plunge into the bed, TechJalsa awakes into a realm of varied entertainment. TechJalsa is a perfect blend of varied events with the additive ingredient of entertainment (DJ night, ethnic day, etc). 8 sections are to covered in this fest

>Technical >Cultural >Online >Literary >Arts >Gaming >Photography >Roadies

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

The institute is actively involved in the following activities -

1. Blood donation - The institute which caters to the need of committed, competent and efficient teachers. The institute gives priority to enhancing the competencies of the teacher trainees for excelling in the task of nation-building with commitment and sensitization. Articulating with the philosophy of humanistic education, the institute also gives due priority to the emerging social responsibilities. The Institute organizes the Blood Donation Camp for the Welfare of the society and motivates the students to become responsible citizens and blood donors as well as spreading the message of peace and harmony through humanitarian approaches. Blood donation is one of the most significant contributions that a person can make to society. Blood is the gift of life. There is a wide gap between demand and access to safe blood. The major aims of organizing a blood donation camp in the College



are as follows:-

- The message of Humanity: Donating blood, not only saves multiple lives but also give an opportunity to add value to one's life. It helps in teaching students about humanity and also defines the spirit of our natural co-existence for others.
- Life-Saving Measures: Blood cannot be produced artificially. The requirement for blood arises during medical emergencies, accidents and life-threatening diseases. Teaching students about the importance of blood donation at an early stage will help in saving human lives and a sense of self-gratification.
- Ensuring Supply of Blood: Fresh blood is produced in the body. After donating the blood new blood cells get stimulated and improve the blood circulation of the body. It ensures an adequate supply of blood to the blood bank which can be used for needy patients.
- Support to Critical Patients: Blood donation camps are organized with the purpose of supplying blood to the blood banks for the need of patients suffering from cancer, haemophilia, and thalassemia or accident victims.
- Suitable Donors: The purpose of a blood donation camp is to select a suitable donor whose blood is safe for the recipients. With the increase in population and the development of more advanced medical and surgical procedures, the need for blood is increasing day by day. Voluntary blood donors facilitate maintaining an adequate supply of blood.
- Removal of myths: Blood donation is a noble act. Many people have wrong notions about blood donation and hesitate to donate blood. With the help of the Blood Donation Camps, the misconceptions can be reduced and the significance of donating blood can be inculcated.

2. Teaching in nearby government schools

3. Plantation

4. Distribution of food packets (free) to residents of nearby villages during the covid-19 era

5. Free R.O. water plant for residents of nearby villages

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

A. All of the above

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

Every year the Institute celebrates Republic Day, Independence Day, Constitution Day and International Yoga Celebration Day and Apart from that, the Institute celebrates Holi, Dhanteras, Janmashtami. The institute is committed to promoting ethics and values amongst students and faculty. The institute organises National festivals, as well as Anniversaries for the great Indian Personalities, including

-

- Republic day (26th January)
- International Women's Day (8th March)
- World environment day (5th June)
- International Yoga Day (21st June )

- Independence day (15th August)
- Teachers day (5th September ) is the birthday of a great teacher Dr Sarvapalli Radhakrishanna
- Engineers day (15th September) is the Birth Anniversary of Sir M.Visvesvaraya the great Engineer of the country
- Constitution Day ( 26th November )
- Birth and Death of anniversary of great personalities:
- Mahatma Gandhi ( 2 October)

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### A) Value Added Training imparted by the institute

1. Title of the Practice: Value Added Industry Oriented Training imparted by the institute
2. Objectives of the Practice: With the increasing demands of the corporate sector, IQAC members have decided to offer value-added training programs to increase the employability of college students.
3. The Context: The Institute follows the curriculum and academic structure of the University. However, the pace of updating the syllabus is not maintained in response to the needs of the industry. So IQAC members identified this gap and realized that improvement was needed as students do not have the necessary skills to perform well in the field of core knowledge (technical domain). Students are also lacking the necessary communication skills.
4. The Practice: The objective of this policy was to improve the performance of the students in recruitment drives by systematically designing training modules that include communication skills, technical skills that would provide them with relevant and job-oriented training.
5. Evidence of Success: The success rate in aptitude tests and technical tests was improved

6. **Problems Encountered and Resources Required:** One of the major problems faced by faculty members was the availability of time for students. Also, the target group was usually not receptive to the suggestions presented. The other challenges included identifying the appropriate agency and the students' response because this training include extra costs which increase the financial burden for the students

**B) Research activities are undertaken by the institute**

1. **Title of the Practice:** Research activities imparted by the institute
2. **Objectives of the Practice:** The purpose is to create a healthy research atmosphere in the institute
3. **The Context:** The faculty members are students who are involved in various research activities.
4. **The Practice:** The objective of this research is twofold. The research ideas will help the faculties in their doctoral as well as postdoctoral work and also in teaching as well. As regards the students, the research will help them to inculcate innovative ideas and also facilitate them in the long term either in higher studies or corporate (R&D division).
5. **Evidence of Success:** The students and faculty have published 13 research papers. Some faculties have been elected as Fellows of several professional bodies The faculty members have also 03 international patents. Institute Faculties are appointed as Visiting Professors of reputed foreign universities and also act as PhD Thesis examiners.

File Description	Documents
Best practices in the Institutional web site	No File Uploaded
Any other relevant information	No File Uploaded

### 7.3 - Institutional Distinctiveness

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

The institute's mission is to provide high-quality engineering education at an affordable price to students from the region. It is committed to becoming a centre for excellence, which offers comprehensive technical education and research opportunities, and develops the total personality of its students. The institute follows an innovative teaching-learning process that involves the use of the latest technology. It is followed by a continuous

evaluation system to assess the performance of its students.

The institute's academic standards are set by its students according to their program objectives and goals. Students are also encouraged to take on in-house projects related to their field of interest. The following activities are conducted on regular basis:

1. Expert Technical Lectures
2. FDPs
3. Bridge Courses/Short Term Technical Online Courses/MOOC
4. Beyond syllabus experiments
5. Research paper writing, patent and copyright filing
6. Student international research internships
7. Student internships at companies
8. Extra-curricular activities are also conducted for students to enhance their social and academic development.

File Description	Documents
Appropriate web in the Institutional website	No File Uploaded
Any other relevant information	No File Uploaded

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

#### 1) INSTITUTION

- To continuously Innovate, Introduce new courses and remain relevant to the changing needs of the stakeholders
- To monitor Quality Assurance and Quality Enhancement activities of the Institution
- To Implement suggestions given by the NAAC Peer Team report

#### 2) INFRASTRUCTURE

- To Implement Structural Repairs to Building and Electrical Repairs, on the basis of Structural Audit, carried out by the Management
- To Implement the recommendations made by Audit Team which conducted Green Audit & Energy Audit, carried out by the Institution
- To provide space for and make available Canteen Facility and Canteen Kiosk, for Students & Staff Members
- To create Additional Lecture Rooms by optimally utilizing the available space
- To provide resources required for Use of Technology to provide

online course contents, video lectures, etc, to overcome space constraints

### 3) ADMINISTRATION

- To automate various Office Administration Processes;
- To support various Staff Benefit and Welfare measures.

### 4) LEARNING RESOURCES

- To upgrade Library Resources to include digital content, which can be accessed by Students and Faculty online
- Digital Content in the form of Video Lectures, Study Notes, etc. to be made available on the website by Teachers
- Digitization of Research Papers published by Staff Members and of Papers presented during the Conferences hosted by the College
- Faculty members shall be encouraged to create blogs to enable students to communicate their doubts, give feedback, suggestions, etc.
- To make available resources for use by Researchers at the Research Centre

### 5) LINKAGES

- To facilitate Faculty Exchange Programmes with Other Academic Institutions and International Linkages
- To facilitate collaboration with Libraries of Professional Institutions and other Libraries of eminence, To facilitate Student Exchange Programmes with Other Academic Institutions in India and International Linkages
- To enter into MOU's with Corporates and Industry Associations to promote Academia-Industry Linkages, to enable placements, internships, training, etc. for the students
- To facilitate an Incubator Cell for new Ideas to be translated into business ideas
- To foster and strengthen the relationship of Alumni with the Institution

### 6) FACULTY

- To facilitate a Research Environment in the College, which encourages Faculty and Students to undertake Research
- To encourage faculty to undertake Consultancy Assignments
- To encourage faculty to Organise Faculty Improvement Programmes, National and International Conferences



- To devise techniques to enable various improvements in the existing Teaching Learning & Evaluation process and measurement of Learning Outcomes, Evaluation & Feedback from Students Institution Facility Evaluation & Feedback from Students

#### 7) SOCIAL OBLIGATIONS

- To continue to provide formal education to needy and deserving students, by providing - feesconcessions, fee waivers, etc.
- To organize programmes (informal education) on topics of general interest for the benefit of students and society/community
- To continue to organize Extension Activities for the benefit of the Society and to create awareness on various social issues

#### 8) OTHER INITIATIVES

- To Introduce Job-oriented and Skill-based courses
- To give thrust to and create awareness about Cleanliness
- To initiate more scholarships to reward the students for various achievements
- To give additional thrust to Campus Placements Initiatives
- To Identify Talent among students for various sports & cultural