SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Jaypee University of Engineering and Technology, Guna dedicated to excellence in education, has been envisioned by its founder and Chancellor Shri Jaiprakash Gaur ji as the epitome of enlightenment and empowerment of youth in India.

The Jaypee Group of Companies has consistently displayed full awareness of their social responsibilities through Jaiprakash Sewa Sansthan (JSS), a "not-for-profit" trust by conducting social and welfare schemes for the betterment of society. The Group believes that education is the cornerstone of economic development which alone can assist to grow India into a developed nation. With the objective of using technology and management effectively, the visionary founder of the Jaypee Group has set up four Technical Universities with the best and state-of-the-art facilities. Initially, Jaypee Institute of Engineering & Technology commenced its academic activities in July 2003, Later on, the Institute applied for the status of Private University in Madhya Pradesh under MP Niji Vishwavidyalaya Adhiniyam 2007 and the same has been granted vide Act No.23 of 2010 of Govt. of Madhya Pradesh making it the 1st Private University in the State. The University has been approved by the UGC under Section 2(f) of the UGC Act 1956. JUET is a dream of Hon’ble Jaiprakash Gaur ji, Founder Chairman who desired to create a “Centre of Excellence” in the field of technical education in rural & underdeveloped north western area of M.P., where there is a dearth of such facilities.

JUET is located in the Raghogarh town of the Guna district. It is situated equidistantly from Gwalior, Bhopal, and Indore (200-250 Km each). The University has a modern campus, well-equipped state-of-the-art laboratories, and a library, which provides a pleasant and intellectually stimulating ambiance for students in an eco-friendly environment. The University has designed new and innovative programs of learning to produce human resources capable of identifying, analyzing, and solving problems.

At JUET, special emphasis has been laid on developing an environment for: -

· Building interdisciplinary knowledge

· Confidence building

· Pursuit of excellence and self-discipline

· Holistic development

JUET is being developed as a prominent center to provide competent, well-trained technical manpower to the region and country.

Vision

"Playing a pivotal role to enable the country and state of Madhya Pradesh, in particular, in developing high caliber trained manpower in the frontier areas of Technologies".

Mission

"To make the university a '**Center of Excellence**' in the field of Engineering and Technology with highly developed infrastructure, excellent faculty with an international outlook and active interaction with the industry".

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Accredited 'A' grade in the first cycle
- Efficient, dynamic, and visionary management for the growth and development
- Academic excellence is exemplified by excellent faculty members from premier institutes of National and International repute
- State-of-the-art laboratories, computerized world-class Learning Resource Center, and access to Wi-Fi facility throughout the campus
- An equipped training and placement cell with highly competitive and dedicated faculty to impart training to the students
- MoUs with National and International organizations
- Use of modern technological aids for teaching and learning process
- Well-managed student mentoring system, where each student is assigned a faculty member
- Strong base of research publications

Institutional Weakness

- Lack of Gender diversity
- Geographical location
- Sponsored research projects
- Research and Development support from industry

Institutional Opportunity

- Generation of revenue by attracting corporate training projects and getting more projects for the rural development
- Strengthening its alumni network
- Tie-ups with foreign universities for Twinning, Joint Degree, and Dual Degree Programmes
- Strengthening research activities to attract more research scholars
- Possibilities of inter-departmental research to promote the rural development

Institutional Challenge

- Number of admitted students
- Being a private university, there are challenges to receive research funding
- With a wide range of career opportunities available in the Software / IT sector, attracting quality students to enroll in the core engineering branches like Civil, Electronics & Communication, Chemical and Mechanical Engineering has become a challenge.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Housing around 1580 students, JUET offers nineteen programs in various disciplines through its nine distinguished departments. JUET has a strong faculty base of 82, out of which 70 % are Ph.D. holders and the remaining are postgraduates and pursuing their Ph.D. either from other Universities or the JUET itself.

A semester system is followed at the University. JUET believes in giving flexibility to its students for studying subjects of their interest through a Choice Based Credit System (CBCS), which lies at the core of every program. Besides the core branch electives, a student can opt for courses from different areas viz. Humanities & Social Sciences, Mathematics, Basic Sciences, and Engineering.

The University emphasizes the importance of experiential learning through hands-on practices, thus, in general, every course is also accompanied with a parallel lab course. Industry visits and project-based learning are the central themes of the programs offered by the University. Running courses are regularly revised and new courses are introduced from time to time to align the courses taught to the students with industry standards. Sufficient value-added courses are also being offered to students for inculcating moral values and bridging the gaps made by language barriers. Other audit courses like “Python Programming” are also introduced as and when required to contribute to the national program of making a digital India.

The curriculum design-and-development at JUET is a well-defined iterative process, which includes faculty members, students, BoS, Academic Council, and eminent external personnel from academia and industry. The inputs from all the stakeholders are considered before finalizing the curriculum. Thus, the University aligns its curriculum with its mission of achieving academic excellence by keeping the curriculum evolving.

The University has a long-standing structured system of collecting stakeholders’ feedback on all aspects of curriculum design, delivery, and effectiveness. The feedback helps in continuous monitoring and improvement of the teaching-learning process.

Teaching-learning and Evaluation

The University acknowledges that the effective teaching-learning process and the replicable student evaluation are the underpinnings of any good educational system. JUET believes in taking the first step right and admitting students solely on a merit basis through 10+2, JEE Mains, GATE, NET, and other competitive exams. The intake in the University comprises students from all socioeconomic classes and all parts of the country. The

University ensures that no student feels isolated through means of bridge courses, summer courses, a special English language lab, and carefully designed orientation programs with a special focus on universal human values.

Before the start of an academic session, an academic calendar is prepared and notified, which is strictly followed and aligned with the University's objective of improving the teaching-learning and evaluation process. Study material along with description and learning outcome for each course is made available online to students and faculty members through a central file server and virtual classrooms.

The University encourages faculty members to develop innovative and effective teaching approaches. Faculty members are encouraged to attend/organize expert lectures, conferences, seminars, workshops, FDPs and supervising Ph.D. students and sponsored research projects, etc.

JUET strongly believes that no student should be left behind in academics owing to their slow learning behavior. The University, therefore, arranges for identification and then conduction of special remedial classes for all such students. For students who find it hard to understand the lectures in one medium of instruction, teachers at JUET ensure to accommodate bilingual explanations of the concepts in their lectures. Special video lectures on complex topics are being created by the faculty members in Hindi and uploaded on YouTube so that the language doesn't become a barrier in the flow of education.

Question paper setting aims at promoting understanding of the subject rather than rote learning. At each stage, students are given ample opportunity to discuss their exam evaluation with the concerned faculty members. The results are recorded and maintained through Institutional Resource Planning (IRP) software solution. Ph.D. evaluation follows a standard two-examiner system - one foreign and one Indian.

Research, Innovations and Extension

The University has a well-structured system of promoting and monitoring research inside the campus. A research committee known as DPMC is formed for each individual scholar, with its well-defined roles of monitoring, that provides guidance to each research student. In the last five years, six different sponsored projects have been taken with total funding amounting to Rs. 28.40 lacs from different government agencies. In the past, ten different projects worth Rs. 0.7 crores have been completed.

The University has spent about Rs. 3.69 crores in the last five years on infrastructure augmentation. The University has a Rapid Prototyping Lab with an investment of Rs. 2 Crores and an Advance Manufacturing Lab of Rs. 1 crore in the Mechanical Engineering department. Cement Research and Development Centre (CRDC), AR/VR, Robotics, Operator Training Simulator (OTS), and Jaypee Wind Engineering Application Centre (JP-WINCENTRE) are the three specialized research centers available inside the University. CRDC and Civil Engineering departments have generated revenue by providing consultancies.

Summary of the research outcomes for the last five years reveals that a total of 62 candidates were awarded PhDs, a humongous figure of 610 is reached in terms of research papers publications, a figure of 216 is achieved for publications that includes books, book chapters, and conference proceedings. A total of 35 patents are also published in the last five years.

All Ph.D. scholars are required to follow UGC norms of publications. The University has a well-defined policy to check malpractices and plagiarism in research as per UGC guidelines. The University has a well-defined

Code of Ethics for research and its implementation is ensured in several ways. The practices include a mandatory credit course on research publication ethics, to be cleared by all Ph.D. scholars and regular monitoring by the institutional ethics committees.

The University has a provision to honour and reward its teachers who earn state, national or international recognition/awards by providing monetary incentives, certificates of honor, medals, and newsletter announcements.

Infrastructure and Learning Resources

The University has the adequate physical infrastructure to facilitate teaching, research, and extracurricular activities, and residential facilities, having multiple gardens and a common lake in the vicinity, for faculty members, staff, and students. The University campus is spread over 122.5 acres of land with a built-up area of 141,924.99 Sq. Mts. It has thirteen Lecture Theatres (LTs) in operation while furnishing of four additional LTs is in progress, thirty classrooms, fifty-four laboratories, a three-floor library, conference halls, one thousand and eight hundred capacity multipurpose hall, 2255 hostel seats for students, one hundred and ninety-two residences for faculty members and staff, and separate messes for boys (with a seating capacity of 1280)and girls (with a seating capacity of 240). The campus has 24-hour 100% power back-up through four DG sets. To provide an efficient workplace, all hostels, academic areas, and offices are centrally air-cooled/air-conditioned.

Apart from these, the JUET offers state-of-the-art gyms, an exclusive swimming pool for the girl students, a tennis court, football ground, cricket nets, multipurpose indoor badminton and basketball court, and outdoor basketball courts for ensuring students' recreational activity and physical fitness, laundry, centralized water treatment, bank ATMs, guest house, parking space and CCTV cameras, and a multi-purpose water body.

The University has a six-bed medical dispensary with a full-time medical officer and four paramedical staff to counter any health emergency. Ambulance service is available around the clock for facilitating the transport of sick students and staff from their respective accommodations to the dispensary and the outside hospitals in cases when critical care is required. JUET is equipped with infrastructural aids to specially abled person in the form of ramps, lifts, approach roads and separate wash-room facilities.

To handle the unfortunate cases of fire breakout inside the campus and as a service to the outside community, the JUET can boast of having a firefighting lorry with sufficient crew members.

Other infrastructural facilities offered by JUET include:

1. Central Library (LRC) is spread over three floors with 36,636 books and more than 21 thousand e-journals and magazines.
2. 24X7 Internet availability through 1 Gbps dedicated lease line and 50 Mbps bandwidth from Jio for backup.
3. IT Cell manages the overall network infrastructure and software.
4. Internet-connectivity throughout the campus
5. The computer-student ratio of 1:1.6.
6. Password-protected space on a network drive for all faculty, staff and students.

Student Support and Progression

The University believes that our responsibility is not just imparting knowledge to the students but towards their overall development and welfare. Several programs are running that work towards personality development, career counseling, soft skills development, improving language skills, etc. A qualified psychological counselor is available to help students overcome stress and depression. Sufficient sports and gym facilities exist to keep the mind and body fit. Conferences, workshops, seminars, industrial visits, technical festivals, technical and cultural hubs, and programming contests, are the activities that engage the students at various levels and help them to explore their strengths. Besides this, to ensure the protection of female students, and to ensure equal opportunity for all irrespective of their social backgrounds, the Women Harassment Cell, and the Equal Opportunity Cell is set in place. The University helps its students by arranging educational loans through banks and financial assistance from the state government.

Students have been provided special covid concessions in their fees during the pandemic time. Eligible full-time Ph.D. scholars and GATE qualified PG students are given fellowships/Teaching Assistanceship. In the last five years, the average number of students who benefited from scholarships and freeships provided by the institution, Government, and non-government agencies is 657.

A mentor is assigned to each student to guide him through the ups and downs that students face in their personal and academic matters throughout their stay on campus. Many students value this relationship so much that they keep consulting their mentors even after their graduation. The University also supports students by arranging mock interviews before the start of the placement session.

In admission, the reservations are given as per government norms. The University has a dedicated placement cell comprising a Training & Placement officer and department representatives. The efforts of faculty members and the cell have made the placement scenario of the University highly commendable. Several companies visit every year for selecting B. Tech. & M.Tech. students. The average percentage of placement of outgoing students during the last five years is 72.82%. The CTC offered ranges from three lacs to forty-four lacs. Recently some start-up companies have also started visiting the University.

Governance, Leadership and Management

Several statutory bodies have been created for governance and management. Board of Management (BOM), Academic Council (AC), and Board of Studies (BOS) are such statutory bodies that always guide the University with a beacon. The administrative positions include Chancellor, Vice-Chancellor, Director of research centres, Deans, HODs, Registrar, and CFAO. All management policies are based on democratic principles of participative management. The University looks after the growth and development of its faculty members and support staff. Faculty members get an annual hike in their salary after they submit a performance-appraisal proforma and obtain a qualifying score. JUET has several welfare schemes in operation, some of which are study leave, medical leave, LTA, EPF, furnishing allowance, leave encashment, books and periodical allowance, loan for a medical emergencies, etc.

The University has implemented e-Governance in different operational areas of administration, finance and accounts, students' information management, and examinations. Even guardians of students can log in and check their attendance and performance through the JUET's e-Governance tool.

The Internal Quality Assurance Cell (IQAC) of JUET handles all matters related to quality and its maintenance. Many milestones have been reached under the aegis of IQAC by the University in the previous years and include: a significant number of MoUs signed with national and international academics, research, and

industrial bodies; participation in MoE initiatives; recognition as a Social Entrepreneurship, Swachhta & Rural Engagement Cell, and membership of the national digital library, to name a few.

The University provides a highly conducive academic atmosphere. It provides freedom to faculty members to pursue academic pursuits of one's own choice. The University has a highly sound financial footing. It has a well-established mechanism for monitoring the effective and efficient utilization of financial resources through various levels of controls, reviews, and audits. In case of a deficit, the support is provided by the parent body JSS.

Institutional Values and Best Practices

The University has an eco-friendly campus with efficient rainwater harvesting and energy saving mechanism. It uses recycled water for all its gardening needs. A total of 2,06,000 Sq.Mts. land is under the horticulture department. Six thousand and nine hundred trees and a large number of hedges have been planted since the inception of this campus. The University has two Sewage Treatment Plants (STPs), to treat the entire sewage of campus with a handling capacity of 1500 cubic meters/day. This treated water is then used for horticulture purposes on the campus while the solid waste is used as compost manure.

Several other best practices are followed in the University like the campus has been declared a 'no-plastic' zone to ward off the menace of non-decomposing plastic bags.in the environment. There exists a culture of regular donation drives where waste electronic items are collected from the offices and households inside the campus and sent further for recycling or disposal. For supporting the cause of green energy, the University has started using solar water heaters and solar lamps inside the campus. The institution resource planning software is the electronic backbone of the entire academic, and non-academic system inside the University campus, which provides for transparency, efficiency, and accountability.

JUET believes in imparting the highest quality of education to its students and, therefore, the University strives for 100% Ph.D. faculty members. At present, 70% of faculty members in different departments of the University are possessing doctoral degrees. For smooth flow of education, well-equipped lecture halls, state-of-the-art labs, and a resource-rich and peaceful library are available at the disposal of the learners.

It is mandatory for all the research scholars (registered for Ph.D.) to give a presentation at the end of every semester where the valuable suggestions given by DPMC (Doctoral Programme Monitoring Committee) members regarding their work further boost the quality of research work. The doctorate degree is awarded after the rigorous review of the thesis by two potential examiners (One from India and the other from abroad) who specialized in that particular area of work. The University also publishes its own journal "JUET Research Journal of Science and Technology"to promote research and innovation.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the University	
Name	JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY
Address	Jaypee University of Engineering and Technology Post Box No. - 1, A.B. Road Raghogarh
City	Guna
State	Madhya Pradesh
Pin	473226
Website	https://www.juet.ac.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Vice Chancellor	J S P Rai	07544-267310	9997974949	-	vc@juet.ac.in
IQAC / CIQA coordinator	Vipin Tyagi	07544-267003	9826268087	-	vipin.tyagi@juet.ac.in

Nature of University	
Nature of University	State Private University

Type of University	
Type of University	Unitary

Establishment Details	
Establishment Date of the University	29-04-2010
Status Prior to Establishment,If applicable	Constituent College
Establishment Date	02-08-2003

Recognition Details		
Date of Recognition as a University by UGC or Any Other National Agency :		
Under Section	**Date**	**View Document**
2f of UGC	10-09-2014	View Document
12B of UGC		

University with Potential for Excellence	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

Location, Area and Activity of Campus							
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**	**Programmes Offered**	**Date of Establishment**	**Date of Recognition by UGC/MHRD**
Main campus	Jaypee University of Engineering and Technology Post Box No. - 1, A.B. Road Raghogarh	Rural	122.5	141914.9	B.Tech., M.Tech., Ph.D., B.Sc.(H), M.Sc.		

2.2 ACADEMIC INFORMATION

Furnish the Details of Colleges of University

Type Of Colleges	Numbers
Constituent Colleges	0
Affiliated Colleges	0
Colleges Under 2(f)	0
Colleges Under 2(f) and 12B	0
NAAC Accredited Colleges	0
Colleges with Potential for Excellence(UGC)	0
Autonomous Colleges	0
Colleges with Postgraduate Departments	0
Colleges with Research Departments	0
University Recognized Research Institutes/Centers	0

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)	: No

Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned				9				10				63
Recruited	3	0	0	3	7	1	0	8	51	7	0	58
Yet to Recruit				6				2				5
On Contract	1	0	0	1	0	0	0	0	6	3	0	9

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned				93
Recruited	84	2	0	86
Yet to Recruit				7
On Contract	6	1	0	7

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned				24
Recruited	24	0	0	24
Yet to Recruit				0
On Contract	0	0	0	0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	0	0	7	1	0	42	4	0	58
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	18	3	0	21
UG	0	0	0	0	0	0	0	0	0	0

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

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

Distinguished Academicians Appointed As

	Male	**Female**	**Others**	**Total**
Emeritus Professor	0	0	0	0
Adjunct Professor	0	0	0	0
Visiting Professor	1	0	0	1

Chairs Instituted by the University

Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	nil	nil	nil

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

Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	416	783	0	0	1199
	Female	140	162	0	0	302
	Others	0	0	0	0	0
PG	Male	4	2	0	0	6
	Female	1	0	0	0	1
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	39	14	0	0	53
	Female	15	4	0	0	19
	Others	0	0	0	0	0

Does the University offer any Integrated Programmes?	No

Details of UGC Human Resource Development Centre, If applicable

Year of Establishment	Nill
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

Accreditation Details

Cycle Info	Accreditation	Grade	CGPA	Upload Peer Team

				Report
Cycle 1	Accreditation	A	3.06	Peer Team Report.PDF

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Chemical Engineering	View Document
Chemistry	View Document
Civil Engineering	View Document
Computer Science And Engineering	View Document
Electronics And Communication Engineering	View Document
Humanities And Social Sciences	View Document
Mathematics	View Document
Mechanical Engineering	View Document
Physics	View Document

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	JUET is actively preparing itself for implementing the recommendations of NEP 2020. A committee has been formed to formulate the recommendations and provide directions keeping the academic, research and cultural environment of JUET in mind. Apart from engineering programmes in Computer Science, Electronics, Mechanical, Chemical and Civil, JUET has the departments of Humanities and Social Science, Mathematics, Physics and Chemistry, which offer a number of credit and audit courses to the engineering programmes that exhibit the multidisciplinary nature of the curricula.
2. Academic bank of credits (ABC):	JUET offers a number of open and core elective subjects to its students, and thus forming the framework for a flexible credit system. Students can earn extra credits by opting these elective/specialized courses and can get specialization certificates along with their regular degree. In order to keep the

	University aligned with the credit storage and transfer recommendations of NEP, the JUET has registered itself with ABC (www.abc.gov.in). For student facilitation, the University is also registered with National Academic Depository (NAD) and providing verified degrees in digital form through Digilocker.
3. Skill development:	JUET provides ample opportunity for its students to learn and grow their skills through the means of student coordinated cells, hubs or forums. Various cells and forums functioning in the University are as under: CSI-Student Branch, IETE-Student Forum, ASME-Student Section, ICI-Student Chapter, JCE-Student Society. Apart from the above-mentioned forums, the youth club at JUET organizes workshops for photography, newest technologies and TEDx events.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Various cultural events are organized under the aegis of JUET Youth Club (JYC) that aims at fostering Indian cultural values and knowledge among our students. JYC's literary wing and cultural wing patronize and promote the dramatics, dance, music and other forms of art that promote the Indian culture and language. For the students from the socio-economic disadvantageous sections, special attention is being given to them during and after the regular classes so that use of English in higher education doesn't become a barrier in the dissemination of education.
5. Focus on Outcome based education (OBE):	The curriculum of the University is designed as per the standards of OBE. The curriculum is being updated regularly based on the feedback from the students, parents, industry experts, faculty, market requirements and the challenges. The contents of the courses are tabled and scrutinized through the Board of Studies meetings for every department. JUET has a special Learning Outcome Curriculum Framework (LOCF) committee that oversees the proper identification of course outcomes, their mapping to the program outcomes and program specific outcomes, and whether the same has been achieved at the end of the semester. The gaps are analysed and the recommendation are made by the committee.
6. Distance education/online education:	Reinforced by the pandemic, the JUET has further strengthened its technology enabled teaching-learning pedagogical style by using online platforms like

	Google’s G-Suite for managing courses, proctored online examination using Mettl, and practical knowledge assessment using Hacker Rank platform. Students are encouraged to opt for courses from Swayam platform and perform their self-assessment through AICTE’s PARAKH.

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2021-22	2020-21	2019-20	2018-19	2017-18
19	19	19	19	19

File Description	Document
Institutional data in prescribed format	View Document

1.2

Number of departments offering academic programmes

Response: 9

2 Students

2.1

Number of students year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1580	1373	1349	1383	1596

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of outgoing / final year students year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
316	231	398	421	507

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of students appeared in the University examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1513	1310	1298	1333	1533

File Description	Document
Institutional data in prescribed format	View Document

2.4

Number of revaluation applications year-wise during the last 5 years

2021-22	2020-21	2019-20	2018-19	2017-18
4	12	15	10	8

3 Teachers

3.1

Number of courses in all programs year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
404	384	379	373	373

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of full time teachers year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
82	75	75	75	89

File Description	Document
Institutional data in prescribed format	View Document

3.3

Number of sanctioned posts year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
82	75	75	75	89

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Number of eligible applications received for admissions to all the programs year-wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
9701	8751	4429	3052	3782

File Description	Document
Institutional data in prescribed format	View Document

4.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
214	212	192	161	115

File Description	Document
Institutional data in prescribed format	View Document

4.3

Total number of classrooms and seminar halls

Response: 46

4.4

Total number of computers in the campus for academic purpose

Response: 992

4.5

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
1478.06	1192.03	1815.02	1797.021	1674.02

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

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

Response:

The University has a systematic procedure for the expansion, revision, and implementation of an updated and distinct curriculum focusing on the Program outcomes (PO) and Program specific outcomes (PSO) which in turn are in tune with the mission statement of the University. The curriculum is diligently framed by focusing on the latest technologies, industry inputs, and the prospects existing at the national and international levels and ensure the relevance to the local, regional, national and global developmental needs.

The primary version of the curriculum is prepared through discussions with various stakeholders and benchmarking with course curricula of institutes of international and national repute. The proposed curriculum is then discussed by the Board of Studies and subsequently, after due deliberations and modifications, it is placed to the Academic Council for approval and then implemented.

At JUET, academic autonomy provides the opportunity to revise the curriculum based on the recommendations and guidance of academic and industry experts and other stakeholders. Revision of the curriculum focuses on introducing new courses, upgrading content for strengthing skills including technical aptitude skills based on industry advancements and inclusion of latest technology in demand to enrich the budding engineers with updated and in vogue technological skills desired by prospective recruiters.

Local and Regional developmental requirements

The location of JUET has been strategically planned in the rural area to facilitate the educational and socio-economical requirements of local residents. There are numerous courses that help the students in analysing and fulfilling the local and regional requirements on the basis of their engineering and managerial skills with practical orientation.There are various courses that help to understand the water and hygiene issues of nearby communities and innovate solutions to protect natural resources. To spread awareness among the students about solid and liquid waste management, farming equipments, irrigation, e-waste management and use of appropriate technology numerous courses are introduced like Special Purpose Vehicle, Water Resource Engineering, Environmental Science etc. These courses and areas enrich students to undertake various outreach programmes and educate local residents through the knowledge acquired.

National and Global Developmental Requirements

To cope up with the national and international requirements, University offers choice-based credits, project-based courses, and internships in industry and national laboratories. This gives students exposure to local, regional, national, and global outlook and prospects. Students are encouraged to select the real-world

problems for their project work to learn problem-solving, creativity, teamwork, in-depth understanding, managing obstacles effectively, and learning from failure. The major thrust areas of these projects are Machine Learning, Artificial Intelligence, Deep Learning, Cyber Security, Cloud Computing, Robotics, Energy Management Principles, Data Analytics, Maintenance Engineering, Production and Operation Management, Renewable Energy Resources, Condition Monitoring, Geotechnical Engineering, Urban Transportation, Planning & Design, Remote Sensing & GIS Applications, Water Supply Engineering, and so on. This learning in turn accelerate students' careers and enable them to be more efficient. The courses offered by the university are in synchronization with national and state agendas like 'Make-in India' 'Digital India', 'Startup India', and 'Unnat Bharat Abhiyan'. The courses on Python, C, and Digital Marketing are offered in all engineering streams in order to comply with 'Digital India Mission' requirements.

File Description	Document
Link for Additional information	View Document

1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

Response: 89.47

1.1.2.1 **How many Programmes were revised out of total number of Programmes offered during the last five years**

Response: 17

1.1.2.2 **Number of all Programmes offered by the institution during the last five years.**

Response: 19

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Institutional data in prescribed format	View Document
Details of Programme syllabus revision in last 5 years	View Document

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

Response: 98.43

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
397	378	373	367	368

File Description	Document
Programme/ Curriculum/ Syllabus of the courses	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

Response: 46.76

1.2.1.1 **How many new courses were introduced within the last five years.**

Response: 310

1.2.1.2 **Number of courses offered by the institution across all programmes during the last five years.**

Response: 663

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

Response: 100

1.2.2.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Response: 19

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

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

Response:

Jaypee University of Engineering and Technology ensures holistic development of students by covering issues such as, Human Values, Professional Ethics, Ethical Values, Gender Equality, Environmental Awareness, which are essential in today's interconnected and diverse workplace.

Professional Ethics, Gender and Human Values:

The University offers the courses like "Human Values & Professional Ethics" and "Research & Publication Ethics" which are focused to develop set of beliefs, and habits that students should adopt for the well-being of self and society at large, and to strengthen their emotional and moral quotient. Various workshops related to Universal Human Values are also conducted by the University. Learnings from these courses and workshops were well reflected during COVID-19 pandemic when the University provided lodging and boarding, and medical facilities to nearby 400 stranded students returning from Kota city to their homes. The University has also distributed thousands of hygienic food packets to needy people. Moreover, two senior professors of JUET are members of AICTE committee for incorporating human values in technical education.

In addition to this, JUET also focuses on entrepreneurship and self employment to raise the living standards of the people living in the nearby region in getting employment or set-up their own businesses. With courses like Entrepreneurship and Startup Business, Indian Constitution & Traditional Knowledge etc., JUET empowers women by spreading awareness related to their rights vested by the Consitution and various job prospects available in today's job arena.

The University has Equal Opportunity Cell & Committee for Differently Abled Persons and Grievance Cell Committee and Gender Sensitization Committee which are constituted to maintain a harmonious atmosphere in the University. From time to time, the Cell conducts seminars by domain specialists for Gender Sensitization.

Environment & Sustainability: To study environmental problems and their solutions, the University offers courses like Environmental Science, Water Supply Engineering, Sustainable Construction, Introduction to Disaster Management and Introduction to Sustainability. University prescribes these courses for creating environmental awareness and focuses on design and technology for improving environmental quality in every aspect. Research areas related to environment and sustainability like

Utilization of Sewage Sludge ash with the objective of reduction in CO2 emission and saving lime stone, Utilization construction and demolition waste as aggregate, manufactured sand and bio medical waste in concrete to save natural resources and environment etc. have also been explored. The University has an integrated 'Rainwater Harvesting System' and 'Sewage Treatment and Disposal System' which is used for watering gardens and crop plants in agricultural fields. JUET not only teaches these courses to the students but also ensures that they should get the practical exposure on the cross cutting issues from time to time.

JUET has a wide range of Flora and Fauna across the campus. JUET has modern eco-friendly green campus which provides an ideal ambience for students and staff for academic pursuits. JUET has been awarded 'Green-Champion' by MGNCRE, Ministry of Education, in the year 2021.

University celebrates events like Earth Day, Environment Day, Republic Day, International Womens' Day, Independence Day, Teachers' Day, Human Rights Day, International Yoga Day, etc. to strengthen the unity amongst the individuals and empowers them to seek their roles and responsibility for national integration, and social responsibility.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	View Document

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

Response: 70

1.3.2.1 **How many new value-added courses are added within the last five years.**

Response: 70

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to value added courses	View Document
Any additional information	View Document

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

Response: 43.54

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

offered year-wise during the last five years.

2021-22	2020-21	2019-20	2018-19	2017-18
1501	756	664	70	213

1.3.4 Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).

Response: 46.08

1.3.4.1 **Number of students undertaking field projects or research projects or internships.**

Response: 728

File Description	Document
List of Programmes and number of students undertaking field projects research projects/ / internships (Data Template)	View Document

1.4 Feedback System

1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni

Response: A. All 4 of the above

File Description	Document
URL for stakeholder feedback report	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Action taken report of the University on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document

1.4.2 Feedback processes of the institution may be classified as follows:

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
URL for feedback report	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Demand Ratio (Average of last five years)

Response: 8.05

2.1.1.1 **Number of seats available year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
735	735	735	735	760

File Description	Document
Demand Ratio (Average of Last five years) based on Data Template upload the document	View Document
• Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the last five years (Excluding Supernumerary Seats)

Response: 45.95

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
131	116	79	68	35

File Description	Document
Average percentage of seats filled against seats reserved (Data Template)	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

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

Response:

JUET offers various learning level programmes to advanced and slow learners. University has provision of a diagnostic test to assess the basic knowledge of English language, Mathematics and Science of new entrants. The result reports of this test help the faculty of the respective classes to extend support in further classifying the students in lectures/ tutorials and class tests on the basis of observations.

After identifying both types of learners, suitable teaching techniques and learner specific practices to meet the need of students are employed.

Practices with slow learners:

- Academic and personal counselling with students. Discussing their problems with their mentors at the individual levels with personalized attention and guidance.
- Students scoring less than 40% marks in the first assessment test (T-1) are supported through conducting remedial classes.
- Bridge courses are planned and conducted in order to meet the specific requirements and prerequisites.
- Encourage and motivate them continuously and develop confidence by conducting simple quizzes for them separately.
- Bilingual explanations and discussions after the class hours for better understanding.
- More explanatory detailed lecture notes
- The fully residential campus of JUET has an added advantage for such students to contact and interact with faculty members easily beyond teaching hours.

Practices with advanced learners:

- Additional value-added courses in diverse areas are offered with a special focus on enhancing employability.
- Encourage to participate and present papers in various Seminars/ Conferences/ Workshops/ Inter-Collegiate Competitions.
- Addtional assignments and student seminars, mock interviews on contemporary topics.
- Special classes are conducted for competitive exams such as GATE and public sector exams.
- The students with a relatively better ability to understand the subject matter are encouraged to refer to online lectures from sources like NPTEL, SWAYAM, Coursera, and other similar online platforms to further enhance their understanding.
- The teaching scheme has provision to work on Minor and Major projects, wherein students get exposure to practically utilize their theoretical understanding and develop their problem-solving skills.
- Advanced learners are also encouraged by faculty members to document their work and present it at a suitable conference or publish articles in journals of repute. Students are also encouraged to participate in inter-university/institute competitions organized by various technical societies such as the Computer Society of India, Mozilla Phoenix Club, The Institution of Electronics and Telecommunication Engineers Student Forum, Mechanical Engineering Society, Society of Automotive Engineers (SAE) Club, etc.
- Vice-Chancellor’s medal and Chancellor’s medal are given to toppers to motivate them.

The faculty takes keen interest while ordering books for the learning resource center (LRC) and ascertains

that the library collection of books caters to the needs of both slow and advanced learners. The LRC also ensures accessibility to computer facilities and internet for the online content. The LRC extends its timings and provides an ambiance of conducive learning to both slow and advanced learners.

File Description	Document
Paste link for additional information	View Document

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

Response: 19:1

File Description	Document
Any additional information	View Document

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

Response:

JUET focuses on imparting education through a student centric approach for enhancing lifelong learning skills. Student centric methods, such as experiential learning, participative learning, and problem solving methodologies with hands-on experience in the laboratories and technical events are integrated in the course curriculum of all programmes. Below mentioned practices provide an effective and innovative opportunities to students for developing their multi-disciplinary skills, knowledge, attitude, teamwork, ethics, and moral values:

- Encouraging students to go through first-hand experience using active conceptualization and experimentation. University offers dedicated language lab in order to impart structured training to students in English communication skills. Students are motivated to design and develop projects and present in front of all the department faculties and their classmates, which helps them to overcome stage fright and develop confidence.
- JUET uses active participatory learning techniques in order to enhance **s**kills, knowledge, and experience that are acquired beyond traditional academic classroom environment. It includes brainstorming, discussions, extempore, peer group teaching on various topics/subjects.
- Customized assignments, advanced problem sets in the form of minor and major projects under proactive mentorship of faculty members facilitate the students to improve their problem solving skills.
- Tech-talks, expert lecture series, webinars, online survey and Q&A sessions are organized periodically for students to remain updated in terms of current state-of-art academics and research developments.
- Departmental seminars, invited alumni talks are conducted wherein they share their professional experience from various fields and give personal guidance to students regarding preparation for job

placements.
- Students undertake compulsory industry visits, vocational training, industrial internships of minimum six weeks at various Government and private organizations such as Google, Nvidia, Goldman Sachs, Cognizant, Infosys, BSNL, BHEL, Wipro, and Indian Railways. Seminars and presentations pertaining to these visits/trainings are also delivered by the students.
- Students are motivated to participate in certification courses such as Cisco, Coursera, Swayam NPTEL, InfyTQ etc.

The University organizes annual fest D'EQUINOX, in which students showcase their learning in the form of event and resource management along with expressing themselves through cultural, artistic and innovative performances. Technical clubs and professional bodies of JUET organize technical fest and activities such as DEXTRA, TOYCATHON, HACKATHON, Hacker rank, and KODETHON, etc. By virtue of this, students get motivated to participate in inter-college as well as national level competitions. The following student's technical clubs and bodies help in creating an intense environment for learning through active participation and hands on problem solving experience.

- Computer Society of India (CSI)-Student Branch
- Mozilla Phoenix-Club
- The Institution of Electronics and Telecommunication Engineers (IETE)-Student Forum
- American Society of Mechanical Engineers (ASME)-Student Section
- Indian Concrete Institute (ICI)-Student Chapter
- Jaypee Chemical Engineering (JCE)-Student Society
- Civil Engineering Forum (CEF)-Student Society
- Mechanical Engineering Society-(MES)
- Society of Automotive Engineers (SAE)-Club.
- Programming-Club
- Development-Club
- Multimedia-Club
- Publication-Club
- Google Developer-Club
- Geeks for Geeks
- Botnet-Club
- AR/VR/MR-Club
- BITWISE-JUET Programming Hub
- RoSPiNoT

File Description	Document
Link for Additional Information	View Document

2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

Response:

In order to facilitate continuous learning, ICT enabled approaches are increasingly becoming an integral

part of progressive teaching-learning process at JUET. The university widely uses online education resources, social networking sites, blended learning platforms like Google meet, Google classroom, pen-tablets to effectively deliver teaching and provide enhanced learning experience to the students. Faculty members prepare lecture modules on important topics, live videos for lab experiments are made available for students in online repository, this ensures 24/7 availability of teaching content to them. The use of ICT tools by teachers in classrooms enable students to keep pace with the contemporary digital and virtual world which helps in effective learning. The classrooms and labs at JUET are ICT enabled with state-of-the-art overhead projectors and the campus is equipped with high speed Wi-Fi connection. The faculty at JUET uses following ICT enabled tools.

- JUET possess a licensed Google workspace for education (G-Suite) that serves as an all-in-one place for teaching and learning which helps in managing, measuring, and enriching learning experiences. Google classroom is used to manage and post all course related information-learning material, quizzes, lab submissions and evaluations, assignments to students.
- Acadly is another classroom response system that is frequently used for online quizzes and students can use their mobile phones for taking quizzes. Faculty can monitor the engagement of each student in a course by observing his participation in respective quizzes and can provide instant feedback to students on quizzes.
- Online resources and E-Contents are developed by faculty members as YouTube channel.
- JUET is committed to strive strongly in order to be able to contribute effectively in the field of online education and allied areas. To facilitate this, a well equipped multimedia lab is established with state-of-art lecture capturing tools.
- Various MOU and collaborations between JUET and various organizations/industries e.g. Coding Ninjas, Nodal Center of Virtual Labs, IIT Delhi, SWAYAM-NPTEL Local Chapter, Remote Centre of IIT Bombay under NME-ICT Program of Ministry of HRD help in conducting coding competitions, mentoring and training sessions and remote access of lab experiments.
- Language lab at JUET is well equipped with necessary multimedia tools and licensed software like Tense Buster, Sky Pronunciation, and Connected Speech. This helps in enhancing the English communication competency and professionalism aiming at better employability. Students are also encouraged to use “spoken-tutorial.org” to enhance their communication skills.
- The faculty members and students are encouraged to explore online contents provided by Massive Online Open Courses (MOOCs). Students also utilize contents from portals like SWAYAM-NPTEL, Coursera, Springboard, and upgrade their levels of understanding on regular basis.
- To enhance learning levels of students, faculty members use various software such as AutoCAD, SolidWorks, ProE, Abaqus, OpenFOAM, OpenModelica, FreeCAD, gnuplot, SALOME, Python, Matlab, Oracle 12C, Red Hat Enterprise Linux-8, IBM SPSS data modeler, Rational Rose Enterprise edition, Qualnet-5.1,Visual Paradigm, Embarcabero C++ Builder XE 7.0, Microsoft Azure dev tools for teaching, Adobe Photoshop CS, Adobe Illustrator CS, Flash MX 2004, Xilinx tool.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

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

Response: 19:1

2.3.3.1 **Number of mentors** ?????????????? ???????

Response: 82

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. year-wise during the last five years

Response: 71.67

2.4.2.1 **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
58	58	53	55	59

File Description	Document
List of number of full time teachers with Ph D/D M/M Ch/D N B Superspeciality/DSc/D Lit and number of full time teachers for 5 years	View Document
Any additional information	View Document

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

Response: 10.21

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

Response: 837

File Description	Document
List of Teachers including their PAN, designation, dept and experience details	View Document
Any additional information	View Document

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years

Response: 45.45

2.4.4.1 **Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
12	16	3	4	1

File Description	Document
Institutional data in prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 10.4

2.5.1.1 **Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
12	12	12	8	8

File Description	Document
List of Programmes and date of last semester and date of declaration of results	View Document
Any additional information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 0.72

2.5.2.1 **Number of complaints/grievances about evaluation year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
4	12	15	10	8

File Description	Document
Number of complaints and total number of students appeared year wise	View Document
Any additional information	View Document

2.5.3 IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

Response:

JUET has a well-established, structured three tier examination system and efficient continuous evaluation system with multiple assessments in each semester. JUET uses highly modular and scalable platform “Campus Lynx” as an Institutional Resource Planning (IRP) system developed by JIL Information Technology Ltd. for Jaypee Universities. This platform is in line with the state of art technology requirements of JUET that has integrated the technological reforms in examination system. Entire process, right from inviting admission applications till the passing out of students and maintaining the history

thereon, is professionally managed with the help of Camus Lynx. The standardized automated process related to the conduct of examinations, declaration of results and award of degrees are controlled and monitored by the University Examination Cell through IRP since the inception of the University for maintaining transparency, accuracy, and mass data management.

The IT integration through IRP has modernized the entire examination process and accelerates the functioning mechanism. The IRP system facilitates students, parents, faculty members, and staff members as well. The following activities related to examination process are managed by the IRP system.

- A systematic academic calendar is prepared and displayed well in advance mentioning the important dates for the conduct of University examination.
- Dedicated login id is provided to students and parents separately. Parents can monitor the progress and participation of their ward through University portal.
- Scheme of examination is prepared and displayed as per the registered courses and is made available to individual student.
- Students are able to access the examination schedules and seating plan arrangement. Seating plan referring to the room location is displayed one day in advance. This is aimed at maintaining secrecy to avoid any possibilities of usage of unfair means.
- Invigilation duty charts are prepared and duly circulated.
- Maintain record of continuous evaluation for Theory (T-1, T-2 and T-3) and Practical (P-1, and P-2) examinations.
- Marks related to internal assessment e.g. tutorials, quizzes, assignments, and attendance are recorded.
- Grade preparation on approval of grade committee, compilation and display of results, printing of degrees, grade reports, and transcripts preparation.
- Record of supplementary examinations is also maintained.
- Result sharing with students and parents.

During the year 2020-2, University faced an unprecedented situation due to COVID-19 pandemic. Examination section used IT tools for conduct of exams during the pandemic period. G-Suite was used for T-1 and T-2 examinations with instruction of formation of question papers. MCQs and descriptive questions based Google forms were prepared by course coordinators and shared with students and a well set date schedule was followed. T-3 was conducted by AI-based proctored online tool “Mettl”. Faculty and students underwent structured training including mock tests to familiarize themselves with the format of proctored online system.

During the pandemic period,(2020-2021), JUET subscribed following online tools:

- ***Google-Workspace*** for internal and continuous assessments.
- ***Mettl*** a proctored examination system for end-semester assessment
- ***Acadly*** (Open Classroom Response System) for online quizzes

File Description	Document
Any additional information	View Document

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

Response: 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	View Document
Current Manual of examination automation system	View Document
Any additional information	View Document
Annual reports of examination including the present status of automation	View Document

2.6 Student Performance and Learning Outcomes

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

Response:

JUET has started incorporating learning outcomes based education by adopting the generic and programme specific graduate attributes which are integrated into the assessment process for last two years. These learning outcomes are widely publicized through the university website and dedicated display boards.

This scheme of designing learning outcomes is all about what the students would be able to do after undergoing a programme or a course. All programs of the university have the generic Program Outcomes (PO) which ensure the attainment of graduate attributes. The Program Specific Outcomes (PSO) are also formulated according to the expectations of respective professional bodies. A dedicated team of senior faculty members have formulated the PSOs of the program during the curriculum design stage itself. The learning outcomes e.g. Program and Course outcomes are discussed at several levels, such as departmental meetings, expert level meetings.

Each department displays the programmes offered, programme objectives, programme specific objectives, the course structure, and the syllabus on its webpage and notice board. The syllabus prominently displays the course objectives and course outcomes. Course outcomes are formulated in order to ensure the coverage of entire syllabus and related competencies.

Our educational programmes include graduate attributes such as knowledge of the respective stream, critical thinking, problem-solving ability, communication skills, and digital capabilities. The revision of the syllabus on frequent basis incorporates new topics/subjects in line with the industry demand so that updated knowledge of the subject is at the forefront of learning outcomes.

Each programme provides the students to choose from generic courses, which are offered with the aim of

expanding the knowledge horizon and to initiate them into interdisciplinary fields enabling them to approach issues in a multi-disciplinary manner.

The course structure and syllabus of each course provides instruction and scheme of evaluation. If a course is of four credits, it is necessarily required to have four contact hours per week. This requires 56-60 hours of teaching. The semester is divided into three tier examination system called as Test-1, Test-2 and Test-3 of 15, 25 and 35 marks, respectively. Internal assessment is done through tutorials, quizzes, assignments and class participation worth 25 marks. Marks are converted into grades using Relative Grading System under the supervision of Grade Coordination Committee.

The learning outcomes are discussed at departmental level for better exposure and understanding of faculty members. These outcomes are communicated to the concerned students in classrooms at the beginning of course by the respective faculty member. The course outcomes are also displayed on respective departmental notice board. These course outcomes are also duly indicated in corresponding test papers.

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

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

Response:

JUET offers Under Graduate, Post Graduate and Research programs implemented with a system to measure the level of attainment of course outcomes, programme specific outcomes and programme outcomes.

Attainment of the Course Outcomes

The course outcome is measured through syllabus, completion of syllabus, continuous evaluations including internal evaluation, setting up of question paper, evaluation, and result.

At the departmental level, the Heads of the Department and the faculty who are engaged in class strive to complete the courses in time. Compulsory attendance of 80 percent is required to appear in Test-3 examination to ensure student participation in the class. The attendance is also tied with marks. The continuous evaluation is done through tests, quizzes, written assignments, and presentation of papers.

Attainment of the Programme Specific Outcomes

The programme specific outcomes are measured by taking the aggregate result of all courses in a given programme of an individual student, and the average performance of all the students in a given programme.

Attainment of the Programme Outcomes

At the undergraduate and postgraduate levels, the attainment of programme outcomes is measured by the department. Another measurement of attainment is student's placement in corporate sectors and for higher studies.

The feedback of different stakeholders in the University helps to measure and reckon the attainment of the programme outcomes. The online/offline written student feedback system provides information pertaining to the relevance of the course, availability of the course material, how it was taught and importance of course in terms of employability. Their genuine and pertinent feedback helps the University to calibrate the learning outcomes.

The University has also utilized student satisfaction survey to measure the attainment level of course, and programme outcomes of each department.

The incorporation of learning based outcomes in our curriculum is strongly reflected in terms of increased employability of our students as recruiters of global repute has shown increased interest in JUET talent year by year offering higher salary packages.

File Description	Document
Upload any additional information	View Document

2.6.3 Pass Percentage of students(Data for the latest completed academic year)

Response: 96.05

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 316

2.6.3.2 **Total number of final year students who appeared for the examination conducted by the Institution.**

Response: 329

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination	View Document
Upload any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.61

File Description	Document
Upload database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

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

Response:

The advancement of research and innovation is extremely important to the University. The University follows the research guidelines laid down by the UGC and AICTE. The university takes various initiatives from time to time to promote research activities and offers a variety of research facilities to research scholars, students and faculty members. Besides, research scholars and faculties, B.Tech students are also encouraged to pursue high-quality research in the thrust areas specified by the University. The research facilities and other lab equipments are well maintained and updated on a regular basis. The University has augmented the following research facilities during the last five years:

- Wind Engineering Application Centre (WEAC) at JUET has one of the largest Boundary Layer Wind Tunnels (BLWT) with dimensions 22 m (L) x 3.5 m (W) x 3.0 m (H). This research application is one of the pioneer laboratories of the University. Students and faculties can use this heavily equipped lab for their learning and research activities.
- AR/VR, AI/ML and Robotics Development and Innovation Centre.
- Internet of Things (IoT) Lab.
- Central Instrumentation Centre has been created to promote the research environment.

The Learning Resource Centre (LRC) has subscriptions of e-resources, namely IEEE, Springer, ProQuest and MAGZTER apart from printed resources to promote research. The University has full-text e-journals and e-books. The LRC is a member of DELNET (Developing Library Network), enabling inter-library loan facilities of resources among DELNET members through their network. JUET is also a member of the KAPILA (Kalam Program for IP Literacy and Awareness) scheme that provides financial assistance to faculty members for filling patents.

The University has implemented many research promotion initiatives, including:

- Teaching assistantship for Ph.D. and PG scholars to boost the quality and quantity of the research work. Teaching assistantship has been increased to Rs. 22,000.00 and Rs. 12,000.00 per month for full-time Ph.D. and PG scholars respectively since July 2018.
- A systematic and phase-wise replacement of old computers/lab equipment to upgrade the lab facilities.
- There is a provision for rent free accommodation for Ph.D. scholars.
- Appreciation is important to encourage research activities in the University. To accommodate this, JUET provides medals and certificates of appreciation to faculty members for publication of research articles in SCI-indexed Journals with high impact factors as well as for any considerable achievement/recognition from a government-recognized body.
- Promoting publications by PG and UG Students: all master's students are encouraged to submit a research paper for publication as part of their degree requirements as mandated by the academic council. Along with this, faculties and supervisors also inspire B.Tech. students to publish a conference or research paper as part of their major project. Also, students are exposed to write

research papers beyond their academic curriculum.

- An in-house research journal, JUET Research Journal of Science & Technology (JRJST) is published biannually. Selected work of the JUET students is also considered for publication in this journal.
- In order to motivate and publicize the research, curricular and extra-curricular activities, as well as recognitions/achievements, are published biannually in the JUET Chronicle, the official newsletter of JUET.
- Entrepreneurial Development Cell (ED Cell) helps students to bring out innovative entrepreneurial ideas through the conduction of various time-bound events.

File Description	Document
Any additional information	View Document
URL of Policy document on promotion of research uploaded on website	View Document

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

Response: 26.23

3.1.2.1 **The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).**

2021-22	2020-21	2019-20	2018-19	2017-18
23.60	25.0	27.77	24.21	30.55

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

3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.

Response: 0

3.1.3.1 **The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the award letters of the teachers	View Document

3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.

Response: 139

3.1.4.1 **The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
15	14	16	16	78

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

3.1.5 Institution has the following facilities to support research

1. **Central Instrumentation Centre**
2. **Animal House/Green House**
3. **Museum**
4. **Media laboratory/Studios**
5. **Business Lab**
6. **Research/Statistical Databases**
7. **Mootcourt**
8. **Theatre**
9. **Art Gallery**
10. **Any other facility to support research**

Response: A. 4 or more of the above

File Description	Document
Upload the list of facilities provided by the university and their year of establishment	View Document
Paste link of videos and geotagged photographs	View Document

3.1.6 Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)

Response: 0

3.1.6.1 **The Number of departments with UGC-SAP, CAS, DST-FIST , DBT, ICSSR and other similar recognitions by national and international agencies.**

File Description	Document
Institutional data in prescribed format	View Document

3.2 Resource Mobilization for Research

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

Response: 0

3.2.1.1 **Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document

3.2.2 Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).

Response: 28.4

3.2.2.1 **Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	3.0	4.25	21.15

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the grant award letters for research projects sponsored by government	View Document

3.2.3 Number of research projects per teacher funded by government and non-government agencies during the last five years

Response: 0.38

3.2.3.1 **Number of research projects funded by government and non-government agencies during the last five years.**

Response: 6

3.2.3.2 **Number of full time teachers worked in the institution year-wise during the last five years..**

Response: 79

File Description	Document
Supporting document from Funding Agency	View Document
Institutional data in prescribed format	View Document
Paste Link for the funding agency website	View Document

3.3 Innovation Ecosystem

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

Response:

JUET has a culture for innovation and has established Institutional Innovation Council (IIC) as per the norms of the MHRD's Innovation Cell (MIC). The objective of IIC is to systematically foster the culture of Innovation within the University by encouraging, inspiring and nurturing young students to work with new ideas and transforming them into prototypes. As a first step toward an Incubation center, University established an Entrepreneurship Development Cell (ED Cell) in the year 2018. The objective of the ED Cell is to motivate students to start their own businesses and promote specialized knowledge in the field of

entrepreneurship development. ED Cell is led by students and mentored by faculty members. The ED Cell facilitates students in nurturing entrepreneurial, organizing and team-building skills by conducting various entrepreneurial awareness programmes, such as workshops, seminars, interactions with successful entrepreneurs, alumni meetings, business plan competitions etc. Seminars and workshops on entrepreneurship and Intellectual Property Rights (IPR) are conducted regularly for faculty and students to develop business acumen and keep them abreast on patents, copyrights, trademarks and the process of filing the same. The University has an innovation and start-up policy to espouse innovative and entrepreneurial ideas. JUET is also a part of the KAPILA scheme that provides financial assistance to faculty members for filing patents. Some of the activities organized by ED Cell in past years are as follows:

- Young Entrepreneurship Challenge
- Participation in Eureka-2019, IIT Bombay
- Creative Design Competition
- Concepto.exe
- EDC Desk
- Movie Event
- Industrial Setup
- Jugaad etc.

The University encourages students for taking part in research and innovation-based activities organized by other institutions. B.Tech. students are motivated to conduct innovative research projects under faculty and area of their interest over and above their academic credits. This initiative has brought positive results and B. Tech. students have published research papers in SCI/Scopus/UGC Care list Journals as well as presented their work in reputed conferences. The students also participate in various events organized by other institutions. B.Tech. student Harsh Kapoor represented the University in Eureka-2019 organized by E-Cell, IIT Bombay and reached the semi-final round on August 21, 2019. A team of three students (Mr. Siddharth Gupta, Mr. Anvesh Tiwari, Mr. Abhishek Sharma) was awarded a certificate of merit for their innovative project titled “Algae-based Air Purifier”, at Jaypee Innovation Conclave (JIC) held at Noida in the year 2018. In addition to this, numerous Ph.D. students and faculty members have been recognized for their unique work through the presentation of awards such as Young Scientist, Best Paper, etc.

The University always tries to be a part of innovation-related initiatives taken by the Government. The University actively participated as a nodal center for Toycathon-2021 event jointly organized by AICTE and Innovation Cell of the Ministry of Education, Ministry of Information and Broadcasting, MSME, Commerce, Textile and Women and Child Education of India. Student teams of JUET have presented their innovative projects in Toycathon-2021 and 2022. Moreover, ten faculty members of the University have completed Foundation level training of Innovation Ambassador (IA) conducted by MoE’s Innovation Cell and AICTE during 2021-22.

In addition, various departments organize events such as Hackathon, Codeathon, CADAction and other technical events from time to time for students to enhance their design thinking capabilities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development during the last five years.

Response: 211

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

2021-22	2020-21	2019-20	2018-19	2017-18
65	69	23	31	23

File Description	Document
Institutional data in prescribed format	View Document

3.3.3 Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.

Response: 42

3.3.3.1 **Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
22	3	3	3	11

File Description	Document
Institutional data in prescribed format	View Document
e- copies of award letters	View Document

3.4 Research Publications and Awards

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of

Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee

Response: A. All of the above

File Description	Document
Code of ethics for Research document, Research Advisory committee and ethics committee constitution and list of members on these committees, software used for Plagiarism check, link to Website	View Document

3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards 1.Commendation and monetary incentive at a University function 2.Commendation and medal at a University function 3. Certificate of honor 4.Announcement in the Newsletter / website

Response: A.. All of the above

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

3.4.3 Number of Patents published / awarded during the last five years.

Response: 35

3.4.3.1 **Total number of Patents published / awarded year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
30	2	2	0	1

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

3.4.4 Number of Ph.D's awarded per teacher during the last five years.

Response: 2.48

3.4.4.1 **How many Ph.D's are awarded within last five years.**

Response: 62

3.4.4.2 **Number of teachers recognized as guides during the last five years**

Response: 25

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
URL to the research page on HEI web site	View Document

3.4.5 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 7.7

3.4.5.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
191	129	106	108	76

File Description	Document
Institutional data in prescribed format	View Document

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

Response: 1.62

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

2021-22	2020-21	2019-20	2018-19	2017-18
55	13	29	21	10

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

3.4.7 E-content is developed by teachers :

1. **For e-PG-Pathshala**
2. **For CEC (Under Graduate)**
3. **For SWAYAM**
4. **For other MOOCs platform**
5. **Any other Government Initiatives**
6. **For Institutional LMS**

Response: D. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Give links or upload document of e-content developed	View Document

3.4.8 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response: 9.12

File Description	Document
Bibliometrics of the publications during the last five years	View Document

3.4.9 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 27.5

File Description	Document
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy.

Response:

Consultancy services are essential when it comes to interacting with industry, especially to foster strong ties with the local businesses and industrial community. The University, through its policy-driven initiative, encourages its faculty and staff members to develop strong, symbiotic relationships with the business world by engaging in a variety of industrial activities, such as expert advice, testing services, assistance with product/process development for a company, policy and planning, support for collaborations and conferences, project planning, marketing, business analysis and support, modelling and predictive analysis, and training. Apart from core engineering departments, University has created facilities such as the Wind Engineering Application Centrer (WEAC), Cement Research and Development Centre (CRDC) etc. to promote consultancy work. JUET continuously supports and encourages faculty members to undertake consultancy and attend workshops to recent trends in technologies. The consultancy services and projects offer a wide range of advantages to faculty, staff and the University including:

- Consultancy work allows faculty members to analyze industrial problems that can be used further for improving the quality of teaching and research.
- It helps in delivering an effective, dependable, and affordable service to any sector of the local, regional, national, or global community with the assistance of the University's considerable educational and research resources.
- Establishes strong relationships and important connections with government organizations, private sector companies and entrepreneurs.
- Aids in carrying out the joint research work and project by utilizing established linkages and connections with business organizations through consultancy.
- It gives employees and staff members the opportunity to progress in their professions and earn extra money through part-time work while gaining new skills and technological expertise.

Any consultancy work for the University is overseen by the Head of the Department (HoD) and the Dean (A&R). While calculating consultancy project expenses in accordance with University standards, the use of JUET infrastructure, equipment, and other resources are also taken into consideration. As soon as the consultancy is completed, an official completion report detailing the services rendered, including a utilization report and other financial details is prepared with reference to the consultancy. The University recognizes the contribution of faculty and staff members who perform testing work. The faculty/researcher staff are provided duty leaves and a share of revenue generated through the work. The income generated from approved consultancy contracts is used first to cover the University's research costs and nd the remainder is shared equally among the faculty and the University in the agreed-upon ratio. The claimed institutional overheads are then included in the departmental budget.

Jaypee University of Engineering and Technology has a distinct revenue sharing policy for consultancy work which clearly states the distribution of consultancy/testing charges in case of 1) services consultancy, 2) individual consultancy with university resources and 3) individual consultancy without university resources. The policy also clearly mentions the distribution of revenue generated among various stakeholders. Additionally, the costs associated with particular testing are explicitly stated.

File Description	Document
Upload soft copy of the Consultancy Policy	View Document
Upload any additional information	View Document

3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

Response: 5.25

3.5.2.1 **Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2021-22	2020-21	2019-20	2018-19	2017-18
0.62	1.25	1.52	0.30	1.56

File Description	Document
Institutional data in prescribed format	View Document
Audited statements of accounts indicating the revenue generated through consultancy	View Document
Any additional information	View Document

3.6 Extension Activities

3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years.

Response:

JUET, Guna understands the importance of a positive mindset and attitude to address societal issues. The University takes its social responsibility seriously and continues to plan several extension activities in the neighborhood community. These events are coordinated by students each semester for their holistic development and to sensitize them to various socio-economic issues. We consistently place a strong emphasis on our students' overall development. Extension activities are an integral aspect of the educational process. The University also has various student bodies which are actively involved in various extension activities in the neighborhood community. Further, these student bodies participate and organize a variety of outreach programmes for rural areas in the vicinity of the University. These programmes help in raising awareness on various societal problems among the inhabitants. Additionally, many of these extension activities are sponsored under different government campaigns such as Unnat Bharat Abhiyan, Swachh Bharat Abhiyan, Jal Shakti Abhiyan, Beti Bachao Beti Padhao etc.

At JUET, the faculty and staff members are fully engaged in such initiatives and guide students in planning the activities in a meaningful manner. Various initiatives that have been implemented in the last five years by the University include waste management, E-waste collection and disposal, collection and distribution of used and old clothes, awareness on energy saving, blood donation camps, plastic eradication, cleanliness, digital security, environmental awareness, water conservation, save soil, rainwater harvesting, tree plantation, personal health and hygiene, gender issues, promotion of child education, diet awareness,

awareness campaign on the voting right, health care camps- eye checkups etc. Since the goal of the University is to produce quality citizens as well as good professionals. There are numerous short discussions, webinars, workshops, and panel discussions conducted at periodic intervals to make the faculties, staff, and students informed about gender, societal and environmental issues. As a socially responsible University, we make students, faculties, and staff of the university aware of the constitution of India through an audit course and workshops respectively. The topics covered in these classes and seminars include caste equality, sociolegal awareness, fundamental rights, and responsibilities that are essential for someone to be a responsible citizen of India.

JUET has also been recognized as a Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution by the Mahatma Gandhi National Council of Rural Education (MGNCRE), Department of Higher Education, Ministry of Education, Government of India. The University has framed the SES REC action plan and constituted working groups for improving facilities in the campus and the community/adopted villages in the areas of sanitation & hygiene, waste management, water management, energy conservation and greenery. Mentorship, social responsibility, swachhta, and respect for the environment and resources are all practiced by the faculty, students, and community, especially after the COVID-19 pandemic. JUET has also been awarded "Green Champion" Award during academic year 2020-21 by the MGNCRE.

All such programmes make students aware of diverse social issues. Ideation, planning and implementation of such programmes not only inculcate in students a sense of responsibility towards society but also help in developing various skills and abilities, such as creativity, effective communication, critical thinking, problem-solving, crowd management, mass communication, time management, emotional intelligence, empathy and teamwork. However, student participation in the last two years was reduced due to COVID-19 pandemic.

File Description	Document
Paste link for additional information	View Document

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

Response: 12

3.6.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
1	7	1	2	1

File Description	Document
Institutional data in prescribed format	View Document
e-copy of the award letters	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 66

3.6.3.1 **Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
13	10	13	18	12

File Description	Document
Reports of the event organized	View Document
Institutional data in prescribed format	View Document

3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

Response: 75.34

3.6.4.1 **Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
1433	103	1281	1308	1420

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 64.8

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

2021-22	2020-21	2019-20	2018-19	2017-18
104	85	55	44	36

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

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

Response: 17

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	4	2	2	3

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the MoUs with institution/ industry	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

JUET has a state-of-the-art infrastructure that provides the students excellent learning opportunities in-line to the vision of our University to provide facilities that are at par with any leading University in India.

The University's modern, beautifully landscaped, green campus, which includes well-designed academic buildings with plenty of open space and is situated in an environment-friendly area, offers students a pleasant and intellectually stimulating atmosphere. Special emphasis has been laid on developing a nurturing environment conducive for

- Building a solid foundation of knowledge and spirit of enquiry.
- Teamwork and confidence building.
- Pursuit of excellence and self-discipline.
- Holistic personality development.
- Producing innovative professionals well equipped to face the challenges of professional and social life.

The University has 13 well equipped, furnished air-conditioned lecture theatres for conducting theory classes with the provision of good ventilation, light, fans, podium, whiteboard, internet connection, projection system and modern audio-visual equipment. The University contains 30 classrooms that are used for tutorial sessions and other academic activities. This benefits the students in the teaching-learning process as these activities are conducted in small batches to enhance the interaction and direct contact between the student and teacher.

Seminars, lectures, tutorials, expert talks and laboratories make up the majority of graduate classes in the academic blocks. Students are also encouraged to use audio-visual, data-projection, and the internet facility to aid them in the understanding of concepts.

The University is currently equipped with well-maintained state-of-the-art laboratories and Central Instrumentation Center (CIC) for carrying out curriculum/syllabus-oriented practicals and research activities. All the laboratories are established as per regulatory authorities that undergo periodic maintenance, including systems, antivirus updates, software updates, calibration and service, as well as upgrades. Each lab is provided with essential display boards and necessary safety precautions. The University has also formed an Enterprenusreship Development (ED) cell to inculcate the spirit of entrepreneurship and encourage them to set up their own businesses.

Computers have become the backbone of every field of study and today's students expect to be able to access information and network services from anywhere with an internet connection, JUET makes this a reality. A high-speed fibre connection provides Internet access through several cables from two Internet Service Providers (ISPs) to all classroom buildings, labs, and hostels on campus. The connection is made possible by a strong, multi-tier network that protects the privacy and integrity of user information. High-

speed LAN connections link every computer to the internet, making it possible to provide each student with his/her own personal computer. At JUET, the IT infrastructure includes 992 computer systems with the requisite software, MoE-approved leased line broadband internet connectivity, projection equipment and video conferencing facilities etc. Wi-fi connection is also spread throughout the campus outsourced by Reliance JIO Infocomm services.

The Learning Resource Center (LRC)/ Library, is filled with sufficient volumes of books/e-books, e-journals, databases, and printed national and international journals and magazines with a contemporary library management system. The University also provides book-bank facility for first year students. Each department has its separate departmental library to cater to the reference needs of students, research scholars, and faculty members. An adequate number of reference books and dissertations are available in the LRC. The Learning Resource Centre has been segmented into Reference Books, Journals, Periodicals, Newspapers/Magazines and Dissertations.

File Description	Document
Upload any additional information	View Document

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

Response:

JUET believes in the philosophy of holistic development of the students, who would then become an asset for society and the country. Towards this goal, the University provides adequate facilities and opportunities for cultural activities, yoga, games, and various type of sports. This aims to instill a sense of sportsmanship in students. To accommodate these facilities, the University has a large multipurpose hall, two sports grounds, and an open lawn area near the Nehru statue dedicated to various socio-cultural activities of students and faculty members.

The University has following indoor and outdoor sports facilities :

- Large multipurpose playground for football & cricket.
- Basketball, volleyball, and handball courts.
- Five badminton courts for boys, girls, and residential members.
- Cricket nets with two cemented pitches, for practice.
- One lawn tennis court.
- Dedicated swimming pool and two badminton courts for girls inside the hostel.
- Indoor & air-cooled sports (multipurpose) hall for badminton and table tennis.
- Two gymnasiums in a cluster of 3-4 boys' hostels and a separate fitness room (gym) for girls inside the hostel.
- Table tennis hall in a cluster of 3 hostels.

The University has a qualified sports coordinator to train the students in cricket, volleyball, badminton, handball, football, etc. Students are also motivated to engage in fitness exercises through yoga classes and the hostel gym.

At JUET, regular yoga sessions and practice are conducted for students, faculty members and staff in air-cooled halls and auditorium.

The multipurpose hall (auditorium) hosts various activities such as cultural events for students, annual fests, musical night, yoga, indoor games (badminton, table tennis), convocation, and large-scale talks & presentations. The multipurpose hall also known as *Tagore hall*, features a multi-screen stage with three layers of screen, top-notch audio-visual facilities, 2200 seating capacity with multiple entry and exits; and air cooling system. The building also includes a music room for practice and a green room for participants' use.

To foster holistic integration of mind, body and spirit among students, the University has dedicated JUET Youth Club (JYC) which organizes social, cultural, educational, sports and literary events as per the annual calendar. The JUET Youth Club has a number of clubs and committees, including a literary wing, a cultural wing, a sports wing, an art and event management wing, and a media wing. Students are also encouraged to participate in University-sponsored cultural and sports events including *El Partido Grande Freshers*, the freshers' day; *Sangharsh*, the annual sports fest; *D'Equinox*, the annual cultural fest; *Raga*, musical nights; and *Adios*, the farewell. Students participate in other competitive cultural events at the inter-university level such as dance, skits, mimicry, and athletics to groom themselves and uplift their personalities. The University has sufficient infrastructure facilities to successfully carry on these activities through auditoriums, open-air theatres, seminar halls, and classrooms. The annual cultural festival, which spans 2-3 days and includes a wide range of activities and performances from well-known musicians, bands, DJs, and artists.

Additionally, each department has its own technical club with dedicated space that organizes a variety of events and works with other clubs every year to put on a technical festival, *Dextra*. The University has also successfully hosted several socio-cultural events online during the pandemic.

File Description	Document
Upload any additional information	View Document
Geotagged pictures	View Document

4.1.3 Availability of general campus facilities and overall ambience

Response:

JUET always tries to ensure that the student community views JUET to be a vibrant, enjoyable, and ingenious community to enrich their scholarly years. The sprawling JUET campus has a lush-green, carbon-free and smoke-free environment and aesthetically designed buildings with campuswide internet and Wi-Fi connectivity.

The campus includes three centrally air-cooled academic blocks, Air Conditioned/Air Cooled Auditorium, Lecture theatres, Classrooms and Laboratories. Some of the major general campus facilities that are available and contribute to create a welcoming environment for a fulfilling educational experience at JUET are as follows:

- Air-conditioned and well-stocked LRC which remains open during 9:00 AM to 11.00 PM and can be accessed 24x7 through LAN.
- 1.050 Gbps internet connectivity (24 x 7).
- Separate hostel facilities for boys with a capacity of 1830 in 21 blocks and girls with a capacity of 425 in two blocks with separate sports and mess facility.
- Air-cooled hostels with 2 and 3-bed configurations (provided with all facilities) including a balcony or a verandah/ indoor games facilities/T.V. room/ gymnasiums/ reading room. A separate fitness room (gym) for girls inside the hostel has also been facilitated.
- Hostel rooms are equipped with beds, mattresses, study tables, chairs, almirahs, lights, fans, and internet connectivity.
- In-campus CBSE affiliated (Affiliation No- 1030658) school named “Jay Jyoti School” is available for the children of residential members and out-campus people.
- A separate salon facility is available for female and male students.
- Well-laid-out automated FSSAI-approved air-cooled mess named “*Annapurna*” is being run separately for boys and girls. Automated chapati-making machines are utilized for this purpose.
- Separate dining halls are available for each year and at a time, around 1200 students can be accommodated in five dining halls.
- Special fasting food is also provided for students in *Annapurna* mess to accommodate their religious upbringing.
- Shopping complex with tuck shops, cafeteria, stationery shop with photocopy facility, multipurpose shop, grocery shop, greengrocer, etc., to meet their day-to-day needs.
- Evening and late-night pantries are available inside hostels to satiate students’ cravings.
- Security personnel at all vital points are available 24x7.
- Ramp and lift facility for differently abled students and staff.
- Transport facility for both in and outside campus movement.
- Guesthouse for the convenience of the visiting family member of students, faculty, and staff.
- Banks and ATM facilities (PNB & Axis bank).
- The firefighting unit and fire brigade are available round the clock in the campus.
- A fire extinguisher is available in each academic block and outside each laboratory.
- University has 24x7 medical centre with a resident doctor, and trained nursing staff including a lady nurse and an ambulance with a wheelchair facility.
- A 24 x 7 well-treated water supply is being provided throughout the campus.
- Similarly, continuous electric supply is provided through an independent feeder. The University has two power substations with separate DG systems (2015 KVA capacity) for distributing the supply evenly throughout the campus.
- Automated laundry facility with drying arrangements.
- Sewage treatment plant for recycling water and processing solid waste.
- Worship places inside the campus for religious or spiritual activities including prayer, meditation and worship.
- Faculty club to promote the faculty members for creating harmonious relationships/healthy environment and cooperation among themselves.
- Children’s park with different swings, climbers and see-saw.
- Rainwater harvesting is incorporated by an artificial lake which augments the beauty of the University.

File Description	Document
Upload any additional information	View Document

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 22.4

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
131.26	91.94	136.94	203.51	1281.34

File Description	Document
Upload audited utilization statements	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

4.2 Library as a Learning Resource

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

Response:

JUET believes in the motto *Vidya Tattva Jyotisamah- Gyan hi shakti hai - 'Knowledge is power…'*. Keeping this motto in spirit, the university has an automated Integrated Library Management System (ILMS) enabled central library known as "Learning Resource Centre (LRC)" which provides all its faculty and students access to a large printed and digital knowledge base.

- A web-based library management software "Liberty and KOHA" is deployed where users can search their desired information at their own desktop such as availability of books, status of their account, new arrivals, etc.
- LRC is fully computerized with a barcode-based issue-and-return process. Online Public Access Catalogue (OPAC) facility is made available in the LRC. OPAC is used by the students and faculty members for the search of books by title, author, subject name, etc. LRC website hosted OPAC system provides information on issues and return for collection of reference sources like handbooks, standards, manuals, encyclopedia, technical reports, project reports along with the prescribed text, reference books, national and international printed journals on different fields like research, engineering, sciences, competitive examinations etc.

- Along with printed resources, LRC also has non-printed digitized material, e-journals, e-books, and the subscription of 5 e-resources namely IEEE ASPP. IEEE CSDL, MAGZTER, Springer and ProQuest can be easily accessed by the users remotely with the help of the EBSCO online platform linked with University LRC. LRC provides SMS and e-mail alert facility for a seamless user experience.
- The library has developed an institutional repository intranet portal that contains a list of publications by faculty members and Ph.D theses accessible to all the users.
- LRC is also a member of DELNET (Developing Library Network) to avail inter-library loan facilities among DELNET members through their network.
- LRC provides services to its users like book lending service, reference service, Selective Dissemination of Information (SDI), current awareness services, reprographic (photocopy) and inter-library loan facilities to the students and faculty for almost 14 hours a day from 9.00 A.M to 11.00 P. M.
- A high-tech 3M magnetization and demagnetization-based security system for the controlling of pilferages is also installed and used. For this, every book inside the LRC has been tagged with a magnetic tag.
- Moreover, LRC is equipped with closed-circuit television (CCTV) camera for enhanced security and vigilance.
- LRC is also equipped with two user counter systems: the first informs the total number of users accessing the LRC daily and the second gives the information of users present inside the LRC. This has been helpful in maintaining social distancing during the pandemic situation. The online user counter on the LRC webpage helps to count the number of users assessing LRC online. Additionally, a visitor logbook is maintained for students and faculty members at the entry gate.
- JUET LRC has a seating capacity of 250 students at a time along with 30 computer systems for E-resources accessible to them.

Some other initiatives taken by the University, are as follows:

- Wi-Fi, internet access, download and printout facility.
- Setting up of Book Exhibitions/Display of new books.
- A proper system of feedback from users to improve LRC services.
- System of recommendation for the purchase of books through departments.

The University LRC building is centrally located, well laid out and enables the right atmosphere for learning with adequate space provided for browsing and relaxed reading for the students.

File Description	Document
Paste link for additional information	View Document

4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 10.44

4.2.3.1 Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
16.21	09.25	12.0	8.52	6.21

File Description	Document
Institutional data in prescribed format	View Document
Audited statements of accounts	View Document

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

Response: 26.17

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

Response: 435

File Description	Document
Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents)	View Document

4.3 IT Infrastructure

4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)

Response: 100

4.3.1.1 **Number of classrooms and seminar halls with ICT facilities**

Response: 46

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

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

Response:

The IT support centre located centrally in the Academic block maintains the policies governing the use of IT communication resources. The IT Policy applies to the resources administered by the administrative departments such as Library, Computer Laboratories, workplaces, Hostels and Guesthouses, Multipurpose-Hall, Residential blocks, School, cafeteria and other common areas.

Furthermore, the entire JUET fraternity uses the IT Infrastructure and complies with the IT guidelines. The server room, IT infrastructure and website committee (IT Infrastructure Committee) frames the IT policies and handles violation cases of IT policy.

JUET has framed various policies like Procurement, Installation of Hardware, Network and Software. E-mail account to facilitate all the employees. There is a provision of E-mail use policy which is reviewed and maintained by the IT department.

JUET has a proper budgeting process to align the IT budget in order to meet the need of every department. Based on the requirements at the department level, the IT infrastructure committee confirms the requirements and shares the same with management for budgeting. An average annual budget per year is provided for improving the IT facility which shows the commitment of our management to build the best IT facility in the campus.

IT infrastructure has been widely spread across connecting 5 academic blocks, LRC, 21 boys hostel, 4 Girls hostel blocks, a multi-purpose hall, WEAC block, in-campus school, 12 residential blocks, guest houses, cafeteria, 6 students clubs with very high-speed fault-tolerant network backbone. Our computer network is built on a CISCO switching platform with a backbone running on optical fibre to support unlimited bandwidth. 2500+ nodes are available for this fast network. JUET's Wi-fi network has provision to support approximately 4600 connections throughout the campus.

The University has a 1.050 Gbps Internet lease line through National Knowledge Network (NKN) and a 50 Mbps Internet leased line from Reliance JIO as a backup.

The comprehensive infrastructure includes 21 physical servers (IBM X3500, X3400, X3100, X235, X226, X206, Sophos XG 430 & Cisco Secure ACS 1113, Cisco 1133 LAN Solution Engine, etc.), 5 routers, a domain file server, fault-tolerant core switches, 166 switches (L2, PoE and L3), 258 access points and 2 Sophos firewalls and antivirus, 2 Cisco firewalls for members of JUET to work anytime, anywhere and from any device.

The Campus Lynx. IRP (Integrated Software Solutions for Educational Institutes) software is designed and developed by the info-tech division of Jaypee Group and includes modules like Financial Accounting System, Fixed Assets Management, HRMS, Purchase, Inventory, Counseling, and Student Information System. The server runs Oracle on the UNIX platform.

The University is having software i.e. STAAD Pro, MATLAB, Pro Engineer, ETABS 9.5, SAP-2000 V-14.2.0 etc. which are network edition.

University IT infrastructure is further augmented by 992 computer systems, 29 projectors, 63 printers (through LAN network), 18 scanners, 2- NVR, 6-DVR and 42 numbers of CCTV cameras at different locations, Tata Libert and Emersion online UPSs of capacities 144 KVA have been installed to ensure uninterrupted power supply at various locations.

University follows a bottom-up approach where the IT infrastructure committee receives the requirements from various peers and after analyzing the requirements, infrastructure expansion is carried out.

File Description	Document
Upload any additional information	View Document

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

Response: 2:1

File Description	Document
Upload any additional information	View Document

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

Response: A. ?1 GBPS

File Description	Document
Upload any additional information	View Document

4.3.5 Institution has the following Facilities for e-content development

1. **Media centre**
2. **Audio visual centre**
3. **Lecture Capturing System(LCS)**
4. **Mixing equipments and softwares for editing**

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Links of photographs	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years

Response: 2.47

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

2021-22	2020-21	2019-20	2018-19	2017-18
14.02	16.32	95.25	63.25	21.05

File Description	Document
Institutional data in prescribed format	View Document
Audited statements of accounts	View Document

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.

Response:

JUET aims to provide a physical environment that positively influences the cognitive and emotional states, concentration, behaviour, actions, and abilities of students and faculties alike. The University believes that this environment is critical to students and staff (including teaching and non-teaching) performance, satisfaction, social relations, and health.

The University's physical facilities which include activity areas, open spaces and green areas, lighting and colors, temperature and humidity, decoration, and furniture tend to positively affect residents' behaviour. In addition to this, the academic and support facilities at JUET is considered as a didactic agent that help to offer optimal conditions for the development of the teaching-learning process.

For this purpose, the University has long-standing laid down procedures and practices for maintaining and utilizing physical, academic and support facilities. Regular and timely maintenance of the facilities i.e., laboratories, LRC (Library), sports complex and sports field, computers, classrooms, buildings, hostels,

canteens, lawn/garden, auditorium, etc. is done by the dedicated estate department of the University. It is overseen by an experienced senior officer, who is assisted by a team of trained staff.

The classrooms are the major and most important working places, and their administration is carried out in accordance with the key processes and procedures that are recommended by the administration of the University. It is always carried out bearing in mind the dynamic nature of the learning and teaching environment of today. The systems and procedures in the University are as follows:

- The University has well-established standing orders approved by the management for different support facilities. A well-laid institutional strategy for mobilization of funds and the optimal utilization of resources had been deployed since the beginning of the University.
- There are well-established Standard Operating Procedures (SOPs) for almost all the facilities available in campus. After the pandemic condition emerged in 2020, these SOPs have been revised as per the government guidelines.
- Cataloguing, stock listing, cleaning, and maintenance of classroom assets are carried out on a regular basis. The University conducts regular meetings of various committees constituted for this purpose.
- LRC and IT cell maintain the stock register to keep the records of all the concerned items and update it annually. Stock verification is done as a part of regular monitoring and control.
- Stock-taking and maintenance record in the laboratory is maintained by Lab-technicians/Lab-in-charges under the supervision of HODs of the concerned department.
- The LRC committee and administration have been charged with maintaining the LRC's infrastructure and amenities, including purchasing, and procuring books, manuscripts, and other items based on suggestions from various departments of the University.
- Books and journal binding is carried out on regular basis for damaged/ partially damaged books to avoid further damage.
- University has deputed a dedicated sports-in-charge to maintain sports equipment, issuance of sports material and maintenance of cricket field, basketball courts etc. Moreover, one faculty member is also assigned the supervision of all the sports-related activities.
- The centralized IT department maintains the stock register and handles all the software and hardware-related issues associated with the computers available in the University. They also maintain a record of all the issues reported by faculty members, staff and students inside the University and take appropriate action to sort out these issues on daily basis.
- Annual Maintenance Contract (AMC) of all the modern technological assets, proper reporting system about repairs and replacements are the basic attributes of classroom management.
- The demand for classrooms with ICT facilities is forwarded to the University timetable in charge through the HoDs and their respective department timetable coordinators, as per requirements.
- Assistant Registrar (Academics) takes care of the student’s academic activities and Assistant Registrar (Admin) takes care of administration & maintenance of University property.
- Fire extinguishers in the academic block are monitored time to time for their pressure and functionality by the fire control department.
- The University has a sewage treatment plant which generates recycled water and solid outings. The recycled water and solid outing (in the form of produced manure) is used in maintaining the on-campus greenery.
- Regular cleaning of water tanks and treatment of water is done at the water treatment plants available in the campus and at the Pagara water plant. This water is again filtered after reaching the campus at Water Treatment Plant (WTP).
- Proper garbage disposal, cleanliness and hygiene in classrooms, labs, offices, library; pest control,

landscaping and maintenance of lawns is done by the University's dedicated staff on regular basis.

- University has a wide range of flora and fauna enriching the lush green environment maintained by the specialized horticulture department.
- Maintenance of the lake and its surrounding along with the cleaning of water is continuously monitored and supervised by the horticulture and WTP staff of the University.
- Spraying of mosquito repellents, etc. are done time to time in each building of the University campus under the supervision of the concerned officer. In order to avoid the spread of any virus inside the campus premises, a special arrangement is made under the supervision of a team consisting of senior faculty members, officers, and the University doctor.
- Regular maintenance and servicing of University vehicles such as buses, cars, etc. are done.
- The mess supervision committee regularly inspects the food quality and the shelf-life of stored items in *Annapurna*, the cafeteria, and the other general stores available inside the campus.
- The University has dedicated in-house staff for the maintenance of wooden furniture, electricity, and plumbing issues. All electrical needs and maintenance are handled by the estate department's electrical unit. The issue of unexpected power outages is handled by electricians round-the-clock, along with the quick replacement and restoration of lights in academic buildings, hostels, streetlights, etc.
- The maintenance team also guarantees a steady supply of water on the campus. The University has enough water filters and RO plants installed to supply drinkable water, and the units are regularly maintained.
- Water cooling systems in academic blocks, guest houses and hostels are periodically maintained for their proper functioning.
- Security personnel is available 24x7 within the campus to maintain and regulate the surveillance and security of the residents.
- To expedite the maintenance process, there is a complaint redressal system through which any employee or student can submit their repair/maintenance request to the establishment office.

File Description	Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).

Response: 45.02

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2021-22	2020-21	2019-20	2018-19	2017-18
1636	1406	95	80	101

File Description	Document
Institutional data in prescribed format	View Document

5.1.2 Average percentage of students benefited by career counseling and guidance for competitive examinations as offered by the Institution during the last five years.

Response: 66.95

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

2021-22	2020-21	2019-20	2018-19	2017-18
976	1317	839	858	843

File Description	Document
Institutional data in prescribed format	View Document

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Link to Institutional website	View Document
Link for additional information	View Document

5.1.4 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Link for additional information	View Document

5.2 Student Progression

5.2.1 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 81.13

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

2021-22	2020-21	2019-20	2018-19	2017-18
12	13	15	3	10

5.2.1.2 **Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
14	14	16	6	12

File Description	Document
Institutional data in prescribed format	View Document

5.2.2 Average percentage of placement of outgoing students during the last five years

Response: 72.82

5.2.2.1 **Number of outgoing students placed year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
283	169	276	262	354

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

5.2.3 Percentage of student progression to higher education (previous graduating batch).

Response: 15.51

5.2.3.1 **Number of outgoing student progressing to higher education.**

Response: 49

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.

Response: 107

5.3.1.1 **Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
3	0	1	1	102

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of Student Council and its activities for institutional development and student welfare.

Response:

The University constitutes various student committees at the beginning of every academic year. It aims at the all-around development and welfare of students. A brief description of these committees is given below:

JUET Youth Club (JYC) Committee

The activities of this committee enhance the overall development of the students by nurturing excellence, self-confidence and holistic development. The activities conducted by the JYC student committee include English and Hindi play, dance and dramatics, fresher's introduction, farewell, cultural festival, musical nights, Halloween night, celebration of Gandhi Jayanti, Photo hunt and Traditional night, intra and inter-university sports tournaments.

Training and Placement Committee

This committee organizes various training activities for the students. It also interacts with prospective recruiters for identifying the opportunities for internship and employment of the students. The activities conducted by this committee include conducting seminars, webinars, and interactions with industry experts to help students recognize their talent, skills, and capabilities, conducting mock interviews and mock online tests.

Equal Opportunity Cell

This cell aims to create an atmosphere of equal opportunity for the students through various activities. To bring socially and economically unprivileged students to the national mainstream, various activities are conducted by this cell to enhance their skills and capabilities for getting jobs and ensuring rapid economic development. The activities conducted by this committee include personality development, soft skill development and interview techniques for all the students to enable them to appear in competitive examinations and create awareness about various scholarships available for the students.

Anti-Substance Abuse Committee

This committee aims to ensure a substance-free campus by imposing a total ban on the possession or

consumption or use of drugs and alcohol by students of the University. The committee creates awareness of the evils of substance abuse through various programs in the University, educating the students regarding the ill-effects of consumption or use of drugs and alcohol.

COVID-19 Response Committee

This Committee strives to adopt the best practices and strategies that enabled the University to manage the COVID-19 pandemic and return to normalcy in a smooth manner. The role of the committee includes community relief activities like community health education, distribution of food to needy people, Covid assistance through the medical center, strengthening routine childhood and adult immunization during and after the pandemic, and providing oxygen and emergency care to needy persons.

Gender Sensitization Committee

This committee work towards balancing the parameter of equality between different genders and organizes awareness programs on various gender issues, laws, Government schemes, theme-based plays, poster and collage competitions, debates, essay competitions, annual functions on gender equality and conducts workshops and gender sensitization campaigns at frequent intervals.

Unnat Bharat Abhiyan Committee

The student committee aims to work with the people of nearby villages of the University in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. The activity of the committee includes save soil, rainwater harvesting, water conservation and save energy campaign.

Alumni Committee

Alumni committee functions to strengthen the bond between the University and alumni for a mutually beneficial relationship. The committee organizes Alumni Interaction Sessions for the current batch of students from time to time on a variety of topics through its alumni network.

File Description	Document
Upload any additional information	View Document

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

Response: 44

5.3.3.1 **Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.**

2021-22	2020-21	2019-20	2018-19	2017-18
63	14	53	54	36

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Response:

The alumni association aims to coordinate and provide direction for all alumni-related activities and engagements in the University and to strengthen alumni relations between current students and alumni while promoting and contributing to the University's growth and development in diverse ways. It also strives to strengthen the industry-institute interaction from the inputs provided by the alumni. Moreover, the University has a strong base of 6485 alumni who are placed in companies of national and international repute.

JUET alumni association has been registered on 21st March 2018 under the Madhya Pradesh Society Act, 1973. The University has established a professional portal which aims to connect the alumni with their alma mater and current students. JUET alumni association contributes significantly to the development of the University with respect to various activities, details are mentioned below.

a) **Knowledge-sharing activity:** JUET alumni association has been actively involved in the activities that are prominently conducted to share the academic and corporate experience of the alumni with the current students. Alumni lecture series is conducted on a regular basis to share the immense industry know-how of the Alumni with the students. Various sessions are conducted by the alumni on the topics like entrepreneurship, start-up culture, current technologies, and career opputurnities in the market place. During the COVID-19 pandemic, this activity was organized online through webinars and online panel discussions. Successful alumni entrepreneurs regularly interact with current students to create awareness about entrepreneurship.

b) **Interview sessions:** JUET alumni association supports the students to prepare for their future employment. The alumni participates in the mock interview to guide the current students with reference to the technical knowledge, managerial skills and human skills.

c) **Deeksharambh:** JUET alumni association conduct svarious online/offline sessions in Deeksharambh. The induction program for the newly admitted students ushers the new students in terms of skills required by the industry and the expected conduct of students in four years of their academic journey.

d) **Curriculum Design:** Alumni are the most important evaluators of an outcome-based curriculum because they only can match their experience of the curriculum against the demands of their current roles. Alumni participate regularly in the upgradation of the university curriculum.

e) **Job Referring Program:** JUET alumni association provides an ample number of jobs referred by the alumni through the University Alumni Portal/LinkedIn page for experienced or fesh candidates. JUET Alumni association has established a professional portal through which the University regularly posts the jobs referred by alumni for students.

f) **Alumni Get-Together/Alumni Meet:** This is a casual event in which alumni of one batch share their journey, experience and events related to University and professional life to students of each engineering department. A virtual get-together of the JUET alumni is conducted regularly to connect with each batch of every department. This event is informal, allowing current students also to interact. Alumni are invited for fresher's orientation where they share their experiences and memorable moments of JUET. Alumni convey tips to the students to utilize four years of study for skill development. Alumni also participate in various departmental skill development webinars and workshops.

File Description	Document
Link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in Lakhs)

Response: B. 50 Lakhs - 100 Lakhs

File Description	Document
Any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance.

Response:

Jaypee University of Engineering & Technology, Guna has been established vide Government of Madhya Pradesh gazette extraordinary No.3 of 2010 dated 29th April 2010 as a private university in the State of MP under the provisions of MP Niji Vishwavidyalaya Adhiniyam 2007. The University aims to offer the complete educational spectrum of programs in emerging technologies at the degree levels. Research in emerging areas of technology is a major thrust and is leveraged for all academic pursuits. The university has a clearly stated vision and mission which are reflected in its academic and administrative governance.
Vision: Playing a pivotal role to enable the country and state of Madhya Pradesh, in particular, in developing high caliber trained manpower in the frontier areas of technologies.
Mission: To make the university a Center of Excellence in the field of Engineering and Technology with highly developed infrastructure, excellent faculty with an international outlook, and active interaction with the industry.
JUET is a dream of Hon'ble Jaiprakash Gaur ji, Founder Chairman Jaypee Group who desired to create a 'Centre of Excellence' in the field of technical education in rural & underdeveloped North Western area of M.P., where there is a dearth of such facilities.
The following are the points to reflect the University as a Centre of Excellence in education :
a) University provides state-of-the-art laboratory facilities, dedicated faculty, and excellent infrastructure for students to excel in an ideal and nurturing academic environment.
b) Excellent Placements: Highest CTC is 44 LPA and the average CTC is 8.03 LPA. The overall placement percentage is 212%. 64.2% of eligible students are offered jobs in more than one company.
c) In Jul 2021, the university was declared a district Level "Green Champion" by MGNCRE, Ministry of Education, Govt. of India.
d) The officials of the University interact with stakeholders i.e. Students, Alumni, Parents, Industry, and Employees, and take their feedback about curriculum design, detailed syllabi, logical sequence of courses, and academics.
e) The University has established Institution Innovation Council (IIC) as per the norms of the Ministry of Education, India.
f) The University strengthens the culture of excellence at all levels by conducting workshops, short-term courses, faculty development programmes, etc. to update employees on the recent trends in teaching, learning, and other professional needs. The faculty members are also encouraged to attend various workshops and seminars conducted by other institutions at the national and international levels.
g) The University offers Massive Open Online Courses (MOOCs) for the benefit of students as per UGC Regulations-2016 for online learning courses through SWAYAM. The University adopted an experiential learning methodology to train students in frontier areas of technologies.
h) In October 2018, JUET has been recognised as an 'Excellent University' by Madhya Pradesh Private University Regulatory Commission (MPPURC), Bhopal.
i) The University is registered at Parakh, an AICTE Student and Faculty Learning Assessment (PARAKH) Portal.
j) The University is registered under Vidhyanjali-2.0 mission, a community initiative to strengthen education.

k) The University is actively engaged in promoting the spirit of entrepreneurship and skill development among students in order to fulfill the vision.

File Description	Document
Any additional information	View Document

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

Response:

The effective and able leadership of the university follows the decentralization and participative management practice through joint decision making, promoting employees own culture, delegating powers to various nodes and committees formed, mentoring teams and fostering collaborations. Various stakeholders are involved in decision making like faculty members, staff members, and students, whereas feedback from employers and parents is being accorded for continuous improvements. The University promotes the culture of participative management in all activities. Committees having equal representation of genders with diverse members from faculty, staff, and students have been constituted to foster participative management. The university has an efficient administrative structure comprising of Academic Council with experts in various fields of knowledge, representatives from allied areas, and representatives from the faculty which is the highest academic decision-making body. The Internal Quality Assurance Cell ensures the maintenance and assurance of quality in the management of the academic and other spheres of university life. All departments along with their respective Boards of Studies plan to implement and monitor all academic matters.

In order to have structured development of the University with a view to address knowledge advancements, changing needs, shortcomings and outreach expansion, grievance redressal mechanisms are in place.

Decentralization can also be seen at the department level where the budgetary requirements for teaching, learning, and research and outreach activities are consolidated and forwarded to the registrar and then a team of senior faculty members of the university analyze the requirements and prepare the budget.
Departmental meetings are regularly held for the allocation of courses and for monitoring academic progress. HOD meetings with Deans and VC are organized to discuss the departmental and University level issues, planning of new programmes and co-curricular activities, etc. The minutes of these meetings are circulated to all the faculty members. The University also ensures regular meetings of statutory bodies. University functions on a student-centric working culture. Recently when COVID-19 pandemic plunged the world to drastically reinvent ways of coping with the ‘new normal', the immediate and effective response of the university to the crisis was to go digital using robust online platforms like G-Suite, Acadly and Mettl to conduct exams and regular classes to offer continuity in learning.

Some examples of decentralization of management control are given as under:
1. Final-year students finalize the topic of their major projects on their own where the quality and relevance of the project topic are being monitored by the department, project mentor/guide. University never imposes any sort of pressure to finalize the topic or faculty in charge under whom students want to carry his/her project. Students submit their project proposal to their project guide and the project guide forwards it to the

HOD after endorsement. HOD thereafter forwards it to the Dean of the university and then things go to the higher authorities of the university in a routine manner.
2. Feedback from students and faculty members on policies, administration, courses, and teaching-learning process are taken and utilized effectively to improve the Curriculum, Policies, Hostel & Mess management, and major areas of administration.
3. The students having multiple placement offers and getting in a dilemma in choosing the company to join are counselled and guided to take a decision.

File Description	Document
Any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic plan is effectively deployed.

Response:

JUET's strategic plan takes into consideration the vision, mission, and objectives of the university. In view of the strategic plans, the institute has a perspective plan of advancement. This arrangement is made according to the necessities of the students and so as to oblige the requirements of the university and society.
The following major areas are covered in the Strategic Plan:

- Academic administration through highly qualified faculty members
- Skill development and value-oriented courses
- Faculty development programmes
- Industry interface and placement
- Promote the spirit of entrepreneurship among students
- Research and innovation

University has a mission of becoming a center of excellence for teaching and learning by student-centric processes, trust transparency, autonomy, and impartiality through experiential learning. University adopts e-learning like NPTEL, SWAYAM, COURSERA, Infosys springboard, Tata strive, Online Quiz, A/v facility, field visit, minor and major projects, electives courses, student interaction monitoring, mentoring, mock interviews, technical societies, GATE classes, and campus recruitment training program to fulfill its mission. Moreover, the University also augments various specialized courses for skill development.
The University is actively engaged in promoting the spirit of entrepreneurship and skill development among students in order to fulfill the vision. For Industry Interface and Placement, the university has a huge and highly dedicated team of Training & Placement Cell with dedicated department faculty coordinators augmenting the Training and Placement efforts.

One successfully implemented activity based on the strategic plan:
We are focused to train students for market-driven requirements so in order to inculcate awareness of demand and supply, ethics, and moral values, and implement it through professional communication. In view of this, the following skill-based and value-added courses are offered to students in B.Tech Programme as a part of their curriculum:

a) Professional Communication Practice
This course is aimed to develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.
b) Life Skills and Effective communication
This course is aimed to enhance the employability and maximize the potential of the students by introducing them to the principles that underlying personal and professional success, and help them acquire the skills needed to apply these principles in their lives and careers.
c) Research and Publication Ethics
This course is aimed to make students understand the basics of philosophy of science and ethics, research integrity and publication ethics
d) Concepts of Economics
The course is concerned with the application of economic principles and methodologies to key management decisions within organizations.
e) Concepts of Marketing Management
This course is aimed to train students to apply concepts and techniques in marketing so that they become acquainted with the duties of a marketing manager.
f) Human Values and Professional Ethics
This course provides a values-based approach to learning ethical professionalism and a method of thinking about and dealing with human aspects and ethical issues in the workplace.
g) Entrepreneurship and Startup Business
The course is aimed to apply an entrepreneurial way of thinking which allow students to identify and create business opportunities successfully.
h) Logical & Quantitative Technique s
This course is aimed to acquaint with the types of questions asked in quantitative aptitude, logical reasoning, and verbal ability.

File Description	Document
Any additional information	View Document

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

Response:

The power delegation and decentralization of authority enrich the effective and efficient functioning of the University in all its spheres of planning, decision-making and implementation. The management plays a crucial role in enriching the bottom-up approach in the planning and execution of various academic activities.

The university-wide committees consisting of faculty, staff, and student representatives have a healthy representation of gender and cultural diversity. Comprehensive performance data is shared with all the stakeholders through annual reports and newsletters to stakeholders, publication of annual quality assurance report, fee structure, admission policies and procedures, academic and administrative policies, via the university website, daily e-mails, notices, etc. The programmes, courses, and activities are

periodically evaluated by the University and reported to the appropriate bodies for proper implementation. The Board of Studies (BoS) is the basic constituent of the academic system of the university. It functions for framing the content of various programmes / courses, reviewing and updating the content from time to time, introducing new programmes/courses of study, etc. It reviews and revises the curriculum and matters related to academics. The recommendations are forwarded to the academic council for approval. The Grievance redressal committees have been formed for both Faculty or staff members and the students.

With the hands-on experience of the management, the university management is designed in a scientific way with transparency to get the optimum results out of it. The management encourages the faculty to participate in various committees. This enhances leadership qualities and skills. There are Committees, Cells, and Associations focussing on specific tasks and roles in the University. A well-defined setup in every department exists whereby there is clarity in duties, responsibilities, accountability, and authority at each level. The key bodies in the organizational structure of the University are Sponsoring Body (Jaiprakash Sewa Sansthan), the state Regulatory Commission (MPPURC), Governing body, the Board of Management and the Academic Council. The Chancellor, Vice-chancellor, Registrar, Dean, Head of the departments, Teaching staff, Non-teaching staff, and Support cells/departments such as Accounts work in close synergy to ensure a suitable academic environment for students on campus. The organizational structure also lends itself to update inputs from external experts, subject matter experts, and industry by co-opting and involving external members in various Committees/ Boards. The HR policies and service rules for teaching and non-teaching staff members are equitable, comprehensive and accessible. The university has an effective and well-established administrative setup which is clearly visible as shown in the organogram. The various policies are also enclosed for reference.

1. Organogram of the University
2. Policies of the university
3. Faculty Members-appointment letter
4. Administrative staff- appointment letter

The Internal Quality Assurance Cell (IQAC) has also been formed in the university which ensures a quality culture at the University level. It is meant to plan, guide and monitor the Quality Assurance (QA) and Quality Enhancement (QE) activities of the University. IQAC has conducted a series of various faculty and staff development programs to support interdisciplinary connections by encouraging team-teaching, developing multidisciplinary courses, and developing learning communities for students.

File Description	Document
Any additional information	View Document

6.2.3 Institution Implements e-governance covering following areas of operation

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

Response: A. All of the above

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

6.3 Faculty Empowerment Strategies

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

Response:

JUET has a well-defined and transparent promotion policy that emphasizes good quality research and teaching. University follows a well-structured yearly self-appraisal system for faculty and annual appraisal by controlling officers for non-teaching staff. Performance assessment of employees is done annually and the ability of the employees is being assessed through systematic evaluation.

- Every faculty member is assessed for his or her performance based on the API score of self-appraisal proforma, evolved as per guidelines stipulated in UGC Regulations.
- The self-assessment proforma filled by each faculty member is checked and verified by the HODs at the first level; Dean at the second level and at the final level Vice-chancellor’s observations are recorded and sent back to Registrar's office for final processing.
- Recommendations are prepared on the basis of rating and grading derived from the API score and the appraisal is granted.
- Non-teaching staff members are assessed based on work output and functional competency.

The University has effective welfare measures for teaching and non-teaching staff. In the University Staff welfare is given foremost importance. The management ensures the wellness of its employees and enables them to optimize their potential. A few examples are:

1. The university has implemented an enhanced pay structure for its employees. The pay structure includes Basic Pay, Dearness Allowance, PF Management Share, Conveyance Allowance, Medical reimbursement, HRA, Soft furnishing Allowance & Special allowance, Gratuity etc.
2. Maternity leave of 180 days for all eligible women and provision of paternity leave of 10 days is available.
3. Provision of Group Medical Insurance for all employees and their family members.
4. Accommodation facility for all employees is provided inside the campus with free electricity and purified water 24*7 and an internet facility.
5. Multi-cuisine cafeteria and Annapurna (mess) with subsidized costs.
6. Amenities (Grocery shop, provisional store, gift shop, personal grooming shop, salon etc. are available in the campus)
7. The basic diagnostic facility, ambulance, and 24/7 well-stocked pharmacy are available free of cost.

8. Ladies club facility for university female residents.
9. Subsidied transport facility for university residents
10. In order to provide quality education to the wards of the employees of the Jaypee group, a policy of concession in tution fees is also available.
11. Due encouragement for career development to faculty members by permitting them to pursue higher studies, undergo a training programme, attend seminars/symposiums/conferences/workshops etc.
12. University reimburses professional bodies membership fee to faculty members.
13. JUET also promotes its R&D activities through :

- Support and encouragement for sponsored research projects.
- Honoring faculty members on receiving State, National and International Awards/ Patents / Recognitions/Research Grants.
- Encouragement for publications in high-quality journals.
- Support for organizing conferences, workshops, FDPs, expert lectures and interactions.
- Sponsorship to attend workshops/conferences.
- Procurement of instruments/software for high-end research.
- Creation of Specialized labs, Centers of innovation, Centre of excellence and Research groups.

File Description	Document
Any additional information	View Document

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

Response: 78.27

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

2021-22	2020-21	2019-20	2018-19	2017-18
62	65	62	39	84

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years (Data Template)	View Document

6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.

Response: 1.6

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

2021-22	2020-21	2019-20	2018-19	2017-18
2	3	1	1	1

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View Document
Link for Additional Information	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 88.76

6.3.4.1 **Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
80	74	70	55	72

File Description	Document
Details of teachers attending professional development Programmes during the last five years (Data Template)	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

JUET adopts multi-pronged strategies for the mobilization of funds and optimal utilization of resources. As

an entirely self-financed institution, we have developed a broad strategy to generate the necessary funds from various sources. Optimal utilization involves trimming overheads through improved management and administrative systems, digital technologies and other innovative solutions. JUET maintains & follows a well-planned process for the mobilization of funds and resources.
The university has a Board of Management that plans, controls, and monitors the financial resources of the University. At the beginning of the academic year, departments submit an annual budget for their activities. The BOM reviews the budgets and allocates the required funds. The university also allocates sufficient budgetary provisions to conduct various academic activities, create adequate facilities, and organize quality programme such as seminars, conferences and guest lecturers to fulfill the University's mission and objectives. The annual financial audit ensures the effective utilization of available funds. Copies of audited results are sent regularly to the Board of Management (BOM) and regulatory authorities. The university follows cent percent transparency in the use of funds.
Resource mobilization is carried out by the following means:

- Students Fees and Overhead Charges Research grants
- Interest on corpus

Fund generated from the above is principally used for the maintenance and development of the University. Optimum utilization of funds is ensured through the following measures:-

- Adequate funds allocations for effective teaching-learning practices that include Orientation Programmes, Workshops, Interdisciplinary activities, Training programmes, and Refresher Courses that ensure quality education.
- Budget utilized to meet day-to-day operational and administrative expenses and maintenance of fixed assets. Monthly and seasonal costs are monitored.
- Enhancement of library facilities to augment learning practices and accordingly requisite funds are utilized every year. The Library Advisory Committee ensures that the resources in the library are utilized optimally.
- Adequate funds are utilized for the development and maintenance of the infrastructure of the University.
- Purchase committee ensures that purchases are done properly and in accordance with the rules without diluting the quality measures. The purchase committee seeks quotations from vendors for the purchase of equipment, computers, books, etc. The quotations are scrutinized by the finance and purchase committee before a final decision is made based on parameters like pricing, quality, terms of service, etc.
- Library functions beyond college hours for the benefit of students, faculty, and alumni.

The main objective of resource mobilization and optimal utilization of resources is to ensure JUET, Guna provides quality teaching infrastructure and environment to enable the professional growth of students.

File Description	Document
Any additional information	View Document

6.4.2 Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs).

Response: 72.72

6.4.2.1 ***Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).***

2021-22	2020-21	2019-20	2018-19	2017-18
9.97	10.87	25.01	8.75	18.12

File Description	Document
Details of Funds / Grants received from government bodies during the last five years (Data Template)	View Document
Annual statements of accounts	View Document

6.4.3 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)

Response: 50.24

6.4.3.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
3.08	6.50	4.48	9.47	26.71

File Description	Document
Institutional data in prescribed format	View Document
Annual statements of accounts	View Document

6.4.4 Institution conducts internal and external financial audits regularly

Response:

JUET has established a mechanism for conducting internal and external audits on financial transactions every year to ensure financial compliance. The internal audit committee thoroughly verifies the income and expenditure details and then the compliance report of the internal audit is submitted to the management of the university. An external audit is conducted once every year by an external agency. Proper utilization of financial resources is planned at the beginning of every financial year. The accounts department takes care of the collection of tuition fees, salary distribution, tax payment, purchase orders for laboratory equipment, teaching aids, furniture, facilities, and payment of maintenance bills. The Statutory Audit is in accordance

with the significant accounting policies related to General Accounting Practices, Fixed Assets Accounting and Depreciation thereon, Inventory Management, Claims, Revenue recognition, Retirement benefit to employees, foreign currency transactions, Finance Cost etc.

JUET, Guna regularly conducts internal and external financial audits. It has an Accounts Department headed by CFC to ensure the maintenance of annual accounts and audits. However, for the year 2021, internal audits could not be conducted due to COVID- 19 pandemic situation since the internal audit team from Delhi could not travel. The external audit reports duly signed by the Chartered Accountant of the university are attached.

The process of the internal audit is as follows:
Internal audit of all the accounts of the university is done by Ravi Rajan & Co. from New Delhi.
All vouchers are audited by Ravi Rajan & Co. from New Delhi on yearly basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. They verify all the bills, vouchers, books of account, bank statements along with other documents, If any discrepancy is found, the same is brought to the notice of the management.

The process of the external audit is as follows:
External audit of all the accounts of the university is done by Dass Gupta & Associates.
External audit of the accounts of the university is conducted once a year post-March 31st , by the chartered accountants. The External auditor expresses their opinion on the Financial Statements of the university based on their Audit.
The accounts of the university are audited by a chartered accountant regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit and the report is sent to the management for review.

All these mechanisms exhibit the transparency being maintained in financial matters and adherence to financial discipline to avoid defalcation of funds or properties of the university at all levels. The audited statement is duly signed by the authorities of the management and chartered accountant.

Dass Gupta & Associates' certified CAs conduct statutory audits covering all financial and accounting activities of the University. This includes scrutiny of the following:
(a) All receipts from fees, donations, grants, contributions, interest earned, and returns on investments;
(b) All payments to staff, vendors, contractors, and other service providers.

File Description	Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

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

Response:

The maintenance of quality is integral to the pursuit of excellence. All matters relating to quality maintenance are handled by IQAC. The prime task of the IQAC is to develop a system for conscious, consistent, and catalytic improvement in the overall performance and meets regularly to plan, guide, and monitor the teaching-learning activities of the University. In designing and deploying policies related to quality, the university is guided by the best practices followed in the academic world. During the post-accreditation period, the IQAC is aimed to channel all efforts and measures of the university towards promoting its academic and administrative excellence. IQAC has contributed significantly to inculcating the quality assurance strategies and processes, the following practices are the results of IQAC initiatives:-

- University Recognitions/Collaborations:

MOUs with Universities and Organisations:-

- MOU Between JUET & Velocity Software Solutions, Noida
- MOU Between JUET & RGIPT, Amethi
- MOU Between JUET & NHAI
- MOU Between JUET & CIRL, Noida
- MOU Between JUET & MPCST, Bhopal
- MOU Between JUET & University of Lucknow
- MOU Between JUET & Coding Ninjas
- MOU Between JUET & CSIR-CBRI Roorkee
- MOU Between JUET & MNNIT Allahabad
- MOU Between JUET & VR | AR | MR New Delhi
- MOU Between JUET & Computer Society of India
- MOU Between JUET & CAIR Bangalore

- Arrangement Between JUET & University of Florida for Summer Internship at University of Florida (USA)
- Collaboration with Virtual Lab, IIT Delhi to establish Nodal Center at JUET
- The University is the authorized nodal center to conduct online courses offered by IIRS-ISRO Dehradun under the IIRS Outreach Programme. It is the network institute of IIRS/ISRO Outreach network.
- JUET is now a participant in Unnat Bharat Abhiyan of MOE, Govt. of India.
- JUET has been established as SWAYAM - NPTEL Local Chapter.
- In University Category – Rank Band: 151 to 200 (NIRF Rank 2018)
- Approved as Remote Center of National Mission on Education through ICT Program (MHRD, Govt. of India), conducted by a consortium of IITs, coordinated by IIT Bombay.
- Awarded “Best Accredited Student Branch Award” by Computer Society of India (CSI)
- JUET is a recognized ‘Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution’.
- The University established Institution Innovation Council (IIC) as per the norms of the Innovation Cell, Ministry of Education, India.
- The University is part of IRINS (Indian research information network system) by the information and library network (INFLIBNET) since June 2021.
- Membership in the National Digital Library (NDL) has been granted to all the Faculty and Staff members of JUET in the year 2017-18.
- The University was selected by MHRD’s Innovation Cell (MIC) and AICTE for hosting the Grand Finale of Toycathon-2021.
- Based on Code Chef Coding Platform for Long Challenges JUET is ranked 30th in February 2018

and 20th in November 2021 at the National level.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.2 Institution has adopted the following for Quality assurance 1. Academic Administrative Audit (AAA) and follow up action taken 2.Confernces, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality issues for teachers and students 5. Participation in NIRF 6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).

Response: C. 3 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution (Data Template)	View Document
Link for Additional Information	View Document

6.5.3 Incremental improvements made for the preceding five years with regard to quality (in case of first cycle), Post accreditation quality initiatives (second and subsequent cycles).

Response:

A number of post-accreditation quality improvements are done:

- JUET has been awarded the ‘Green Champion Award’ by Mahatma Gandhi National Council of Rural Education (MGNCRE), Department of Higher Education, Ministry of Education, Govt. of India.
- Establishment of Institution Innovation Council (IIC) as per the norms of Innovation Cell, Ministry of Education, Govt. of India. JUET has become a mentor of 3 Atal Labs.
- Association with SWAYAM/NPTEL
- Value-added courses are offered to students for Skill-Based education.
- Participation in Unnat Bharat Abhiyan of MoE, Govt. of India. Five nearby villages adopted under UBA
    - Achakalpur
    - Raghunathpura
    - Shripura
    - Bhadauri
    - Sar Sahela

- JUET has become authorized nodal center to conduct online courses offered by IIRS-ISRO Dehradun under the IIRS Outreach Programme.

- Recognized as an ‘Excellent University’ by Madhya Pradesh Private University Regulatory Commission (MPPURC), Bhopal in October 2018.
- Registered under PARAKH, an AICTE Student and Faculty Learning Assessment (PARAKH) Portal.
- Registered under Vidhyanjali-2.0 mission, an initiative to strengthen education.
- Council of Wise is formed to review the status of admission, Academics, Research, infrastructure, and requirement for research, and innovation incubation in order to bring excellence to the university.
- Students’ technical societies are formed to conduct technical events and create a learning culture in the university.
- Nodal Centre of Virtual Labs, IIT Delhi, an initiative of the Ministry of Human Resource and Development (MHRD), Government of India under the National Mission on Education through Information and Communication Technology (NMEICT)
- Conducted Covid-19 vaccination drive for all the JUET residents
- Establishment of advanced research labs i.e. Wind Engineering Application Centre, AR/VR lab, Robotics lab
- Bridge course was introduced post-Covid-19 to bridge the learning gap of the newly enrolled students.
- Remedial classes are conducted for slow learners.
- Faculty members are encouraged to pursue their doctoral degree resulting in 70% of the faculty members holding their doctorate.
- Several research projects are submitted to funding agencies.
- The library management system has been upgraded to ‘KOHA’.
- Inclusion of interdisciplinary courses offered by basic Science departments.
- Elective courses on Statistical methods, Mathematical modeling and optimization have been created and offered to the students.
- The infrastructure of Language Lab has been upgraded for imparting better communication skills among budding engineers.
- Students are encouraged to participate in workshops, seminars, conferences and publish quality research papers.
- JUET has entered into a Memorandum of Understanding with several International and National Institutions for academic, research, and exchange programmes.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

Criterion 7 - 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 last five years.

Response:

The equitable development of society as a whole, along with fair distribution of resources irrespective of gender is at the core of the Jaypee University of Engineering and Technology's code of conduct. The University firmly believes in granting equal status to all genders and always accords utmost priority to the promotion of gender equity. All events (cultural, literary, sports) which are organized by the JYC (JUET Youth Club) ensure good participation of female students. The safety and security of the girl students are taken care of by providing the following facilities on campus:

1. Separate girls' hostel with a maximum capacity of 500 students. The hostel is equipped with the facilities such as a common room, gymnasium, swimming pool, and dining hall.
2. Security personnel is available at the gate of the girls' hostel round the clock and no unauthorized person is allowed to enter into the hostel. Full-time lady caretaker and night *ayahs* are also available to address the immediate needs of the students. Being a fully residential campus, the hostel warden is also accessible to the students round the clock.
3. There is a provision for girls' night out "BINGO" on some special days.
4. For those girl students who participate in extra-curricular activities or wish to study in the library, especially during night hours, there is a provision of special security.
5. Availability of lady nurse in the University dispensary throughout the day and night to cater to the need of female students.
6. A separate full-time female psychological counselor is available in the campus to maintain the mental well-being of the students.

7. The University has a well-laid system for the speedy redressal of any grievances of the female students including the Equal Opportunity Cell, Gender Sensitization and Internal Complaint committee with girls and boys as representatives. The committee organizes webinars, workshops, competitions, counseling sessions, etc. to sensitize the students about the importance of gender equity in society. The registrar of the University also addresses all the students on the topics such as 'Safety and Security "and "Do's and Don'ts to Avoid Problems" which shows the sensitivity with which University administration takes up this issue. Major events which were held during the last 5 years are as follows:

S.No.	Name of the Event/Activity
1	Invited talk on "Safety & Security"
2	Webinar series to celebrate International Women day
3	Workshop on Digital education for rural women
4	Article Writing Competition on Cyber bullying and how to stand against harassment

5	Status of gender equity in India
6	Poster Competition on Women Fitness and Safety
7	Poster Making Competition with theme “Indian Women in 2030”
8	Address on “Do’s and Don’ts to Avoid Problems”
9	Address on “Safety and Security”

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

The University accords top priority in providing a clean and green environment in the campus for the well-being of all inhabitants. This aim is accomplished with proper management of waste generated within the University premises. The University makes concerted efforts to the management of the different types of waste as follows:

(i) Solid waste management: Both biodegradable and non-biodegradable components are present in solid waste. Plastic, metal cans and other non-biodegradable materials are among the solid trash that is generated on campus. Food scraps, papers, vegetable peels, leaves, and other organic materials are examples of biodegradable waste. The University adopts the following practices for the effective management of solid waste:

(a) Collection of garbage from the various locations within the University premises, by dedicated *safaikaramcharis*. Also, food trash and other non-biodegradable waste are collected in separate bins.

(b) Food waste from Annapurna is sent to the cattle shed situated at Guna.

(c) Waste in the form of glass, paper, and metal is sold to a junk dealers.

(d) After segregating dry garbage from the overall solid waste collected from the campus, wet garbage is utilized in the preparation of organic manure for cultivation purposes throughout the year. The organic manure is prepared by making use of dry leaves of hedges, trees and shrubs, vegetable waste and sewerage treatment plant slurry by using the pit composting method which consists of the following steps:

- Organic waste is evenly spread out in the pit and is covered by a thin layer of soil every day.
- This process continues till the pit is full.
- The pit is then left for decomposition to take place for 6 – 10 months for the preparation of compost.

(ii) Liquid waste management: Taking into account the size of the University, the liquid waste generated from various locations is huge in volume. University is equipped with two sewage treatment plants (STP) with massive 800 and 700-kilo liters per day of handling capacity, respectively. The treated water is subsequently utilized in horticultural activities to maintain a lush green campus. As mentioned above, the slurry obtained from the STP after the treatment operation is used in the preparation of compost.

(iii) E-waste management: Electronic waste is produced when a product is abandoned after it has reached the end of its useful life. JUET has a well-defined procedure for the proper management of e-waste. Students and their supervisors are encouraged to utilize the e-waste in their minor and major projects which are generated from computer systems, mobile phones, servers, displays, CDs, printers, scanners, copiers, calculators, fax machines, battery cells, and other outdated electronic items. Students are actively engaged in the periodic collection of e-waste from all sources including the faculty and staff residents. E-waste accumulated over a period of time is deposited with government-approved E-waste handling firms.

(iv) Waste recycling system: The University recycles its wastewater after proper treatment performed in STP for irrigation and watering throughout the year. Wet solid waste is used to prepare organic manure (mentioned above under “Solid and Liquid waste management”).

(v) Hazardous chemicals and radioactive waste management: The University does not generate any hazardous chemicals and radioactive waste, as chemicals used in various laboratories of chemical engineering and chemistry are not hazardous in nature.

File Description	Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document

7.1.5 Green campus initiatives include:

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**

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Response: B. 3 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for 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**

Response: B. 3 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

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 500 words).

Response:

JUET has diversified demographical division among the student community and believes in the principle of “Unity in Diversity” and celebrates unity among individuals who have differences on the basis of culture, language, ideology or ethnicity. The maintenance of communal harmony and peace in different sections of society is imperative to realize this aim. The University prides itself in providing an inclusive environment on campus that helps sensitize students towards cultural, linguistic, communal, socio-economic and such other diversities. JYC (JUET Youth Club), a student body, is instrumental in organizing a variety of cultural and literary events to spread the message of the importance of maintaining communal harmony in society. The cultural wing of the JYC (JUET Youth Club) organizes “Traditional Night” and “Dandiya night” every year in which students are attired in different dresses that represent various parts of India. It makes students aware of the numerous traditions being followed in different parts of our country which further helps in building social and cultural tolerance in the youth. As it is believed that all events/celebrations should start with the worship of goddess Saraswati or lord Ganesha. In view of this, all the cultural events that are held throughout the year commence with a lighting of a lamp ceremony and Saraswati/Ganesha Vandana. Traditional dances and Bhangra, which is one of the popular folk dances, performed by the students are the main attractions in the annual fest held every year. Moreover, the literary club provides students the opportunity to showcase their linguistic abilities in the form of debates, role plays, and discussions on issues related to society and cultural heritage.

Language day is celebrated to promote linguistic and cultural diversity and multilingualism around the world which very strongly conveys the message that language is just not a means of communication, but it also represents vast cultural and intellectual heritage as well. It is commemorated by organizing essay competitions for the students in which they pen their thoughts in their mother language on a particular topic and the winners are felicitated. In addition to this, events like drama, skits and *nukkadnaataks* are

organized to create awareness about various exhilarating issues on the occasion of '*Hindi Diwas*'.

Various festivals such as Navratri, Diwali Pooja, Saraswati Puja,Mahashivratri, HolikaDahan,Ganesh Utsav,Hanuman Jayanti, Janmashtami, Guru Nanak Dev Jayanti, Christmas and New Year, Vishwakarma Jayanti are celebrated in the campus every year with great religious fervor and gaiety. Muslim and Jain students are permitted special out passes to visit their mosque/temple outside the campus. Students are encouraged to understand the significance of a multicultural pluralistic society where people's values are respected. The students at the University also organize cleanliness drives in some of the villages in the vicinity of the campus which provided them an opportunity to interact with the people living in rural areas, and to understand the problems they face in their day-to-day life. It helps in widening the vision of the students in understanding the socio-economic diversities in society.

All festivals and events are celebrated by the student community in a united and harmonious way despite their cultural diversities and religious beliefs which gives them a feeling of "home away from home".This helps in creating a sense of social responsibility among students.

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

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

India as a country includes people from many backgrounds, including cultural, social, economic, linguistic, and ethnic diversity, all of which are governed and guided by the Constitution, regardless of caste, religion, race, or gender. Jaypee University of Engineering and Technology, Guna educate students and employees at regular intervals about the citizens' values, rights, duties, and responsibilities, enabling them to act responsibly. Students are inspired by faculty and eminent personalities through numerous online and physical programmes on culture, ethics, traditions, values, duties, and responsibilities. Students were involved in awareness campaigns about the ban on plastics, cleanliness, Swachh Bharat, and other important value addition programmes. Students along with faculty members regularly visit nearby villages and educate people on various issues related to environmental awareness which helps in inculcating a sense of responsibility in the students. To inculcate model conduct as citizens, the University has created policies that are based on the core values of our Constitution. A Code of conduct is prepared for students and University staff to imbibe the spirit and aspire to higher values.

In addition, to provide quality education to students, the University has a vital obligation to impart moral values in them so that they grow as good citizens of our country and contribute significantly to nation-building. By commemorating Constitution Day on 26th November every year, the institution raises awareness among students and employees about the obligations and responsibilities of individuals as outlined in the Constitution. On this day, students and faculty members of JUET, Guna read the preamble, which is the guiding spirit of our Constitution and the country as a whole, in all classes, and pledge to genuinely fulfill all basic tasks for the nation's prosperity. Short discussions, and seminars on topics like

Sexual Harassment, and Gender Equity are conducted periodically for students to think about and realize. Furthermore, every year, the University commemorates Republic Day, Independence Day, and Gandhi Jayanti, where the relevance of the Constitution in everyone's daily lives is reinforced. Additionally, student induction programme (Deeksharambh), Youth parliament and patriotic dramas are conducted annually for inculcating the values and duties of a citizen of India, among the youth of the University.

As a minor step toward instilling constitutional commitments among students and university staff, the University included a few mandatory value-added courses such as Human Values and Professional Ethics, and Indian Constitution & Traditional Knowledge in its curriculum. Over the previous five years, there have been several group activities and initiatives, out of which a few are mentioned below:

S.No.	Name of the Event/Activity
1	Inauguration and Celebration of Bharat ka Amrut Mahotsav
2	Vigilance Awareness Week
3	Student Induction Program
4	Rural support-COVID-19
5	Mask Distribution-COVID-19
6	Rural Awareness – Digital Fraud
7	Constitution Day
8	Vigilance Awareness Week
9	Blood Donation camp
10	Swachh Bharat Abhiyan
11	FDP on Incorporating Universal Human Values and Professional Ethics
12	World Tobacco Prohibition Day
13	Candle March for Pulwama Martyrs
14	Youth Parliament
15	Run for Unity and Democracy
16	Exercise the Voting Right
17	Voter Awareness
18	Integrity Pledge for Citizens
19	Border Management and National Security
20	World Environment Day
21	Swachh Bharat Abhiyan
22	World Bicycle Day
23	Unnat Bharat Abhiyan
24	Plantation Drive

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.

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Response: B. 3 of the above

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

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

National and international commemorative days are celebrated every year to create awareness among the citizens regarding the historical importance of that day and the message which coveys to the society at large. Bearing in mind the momentousness of these days, the University celebrates events with great zeal every year with an intention to have a positive impact on the lives of students. Following events are celebrated every year to reinforce the achievements of humanity by paying homage to our national leaders:

Republic Day- is celebrated every year on January 26, on this day, the Constitution of India came into force and India claimed “Purna Swaraj”. This day is celebrated by the flag hoisting ceremony, singing of the national anthem followed by the address by the Hon’ble Vice-Chancellor of the University highlighting the importance of the day and constitutional aspects of being a democratic republic.

National Science Day: is celebrated on February 28 each year to mark the discovery of the Raman effect by Indian physicist Sir C.V. Raman on February 28, 1928. In 2021, it was celebrated for one week (February 28 - March 6) with the theme 'Science, Technology and Innovation Policy: Effect on education and skill'.

International Women's Day: is a global day for celebrating the social, economic, cultural and political achievements of women on the 8th of March. The day also marks a call to action for accelerating gender parity. The University, in its attempt to make students sensitize toward gender equality, organizes events throughout the year in the form of webinars, poster and article writing competitions, workshops, etc.

International Yoga Day: is celebrated on June 21 for the physical and spiritual prowess that yoga has brought to the world. The University commemorates this day every year with huge zeal and enthusiasm. The yoga instructor organizes the Yoga camp which is attended by the faculty and students and teaches different poses of yoga along with their benefits. It is conducted in online and offline mode.

Independence Day: is celebrated every year on August 15. On this day flag hoisting ceremony is performed followed by the address by the Hon’ble Vice-Chancellor as well as the singing of the national anthem.

Gandhi Jayanti: is celebrated on October 2. On this day, the pledge is taken by the students and staff to always choose the path of non-violence and righteousness in their life.

Vigilance Awareness Week: is observed by the University every year during the last week of October to encourage all students and staff to collectively participate in the prevention of, and the fight against corruption. The solemn pledge is taken by the students and staff to make a corruption free country. Online oath is posted on the government website as per UGC guidelines.

Constitution Day: *'Samvidhan Divas'*, is celebrated in the University on 26th November every year to commemorate the adoption of the Constitution of India. Awareness among staff and students pertaining to fundamental rights and duties and various aspects of the Constitution are made through Lecture, discussions and/or talk by eminent expert.

Azadi ka Amrit Mahotsav: This year JUET celebrated 75th Independence Day as‘Azadi ka Amrit Mahotsav’ and organized several events for and by the faculties, staff, and students such as crossword competition, debates, tree plantation, blood donation camp etc.

File Description	Document
Geotagged photographs of some of the events	View Document
Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

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

Response:

1. Title of the Practice: Efficacious teaching and learning for the inclusive development of the students.

Objectives of the Practice: To create a conducive ecosystem for learning that enables students coming from various backgrounds to excel in their respective areas of interest (academics as well as extra-curricular), leading to their holistic development. It eventually helps them to become a person with the following attributes (i) strong professional ethics and human values (ii) sound academic knowledge (iii) ability to work in a team (iv) a positive attitude towards life and society (v) reasonably good managerial skills (vi) enhanced employability skills. (vi) overall development of the students.

The Context: The implementation of this practice and grooming of students to successfully face the challenges thrown by the real world, requires the following aspects to be in place:

- Qualified faculty along with vast experience in their respective fields for maintaining high academic standards.
- Availability of the faculty for the students round the clock is of paramount importance.
- Motivating the students and resolving their problems through a mentorship programme.
- Hygienic and green environment for the well-being of all the University inhabitants.
- Extra-curricular activities for developing a well-rounded multifaceted personality in students.

- Inculcate human values in the students so that they become responsible citizens of our society.
- Effective online teaching during COVID-19 (AY: 2020-21) when students were forced to stay at their respective places.
- Seminars and webinars from eminent personalities and subject experts, from different spheres of life.

The Practice: The following methods are being employed for the holistic development of students:

- Quality education is being imparted to students and is ensured by recruiting highly qualified faculty in all departments, having rich teaching and research experience. Most of the faculty members have doctorate degrees.
- The University is fully residential where all the faculty and students reside inside the campus which ensures 24 × 7 availability of the faculty for the students. The students having queries/doubts about the subjects meet concerned faculty anytime in the evening hours in the faculty offices, library or LTs.
- The continuous and transparent evaluation of the students helps in identifying slow learners. Remedial classes are also held for these students so that they could be at par with the remaining students of the class. Further, mentors are also allotted to all the students to improve the quality of weak students through regular counseling.
- The inclusive growth of students in the field of academics, sports and co-curricular activities is complemented by the neat and clean environment that the University offers, which helps in instilling positive energy and enthusiasm in the students to meet day-to-day challenges.
- During COVID 19, the following methods were adopted for the purpose of online teaching, evaluation and mentoring:

1. G-suite, a user-friendly interface, was used to conduct online classes seamlessly throughout the AY: 2020-21.
2. Conduct of online examination on Mettl platform in proctored mode.
3. Constitution of the committee to monitor the efficacy of online teaching delivery.
4. Regular counseling of students by their respective mentors to ensure their safety and well-being.

- The University offers a course on “Human Values” and has also included a course on “Indian Constitution”, to make students understand the importance of ethics in one’s life as well as the moral duties and rights of every citizen towards society.
- The University conducts the following activities to enhance the employability of the students: (i) Mock tests and mock interviews (ii) GATE Classes, (iii) Aptitude classes, (iv) Group discussion session
- Research scholars are encourges to publish their work in SCI journals for research scholars to ensure quality and genuine research.
- In order to promote co-curricular activities, the University has a JUET Youth Club (JYC), run solely by the students under the supervision of faculty members, which provides students a platform to explore themselves and showcase their talent in various fields of their interest such as cultural, arts, literary, and sports. The students organize events throughout the year which helps them in boosting their confidence and interpersonal skills.

Evidence of Success: The successful implementation of this practice is ensured by the following outcomes:

- Both the quantity and quality of placement of final year students have witnessed a phenomenal upsurge in the last five years with the percentage of students getting exceptionally high packages having raised manifold in recent years, indicating the commitment of the University towards maintaining a healthy academic environment.
- The dropout rate has been following a downward trend for the last few years, suggesting the enthusiasm among students to pursue their studies at this University.
- There has been a significant rise in the pass percentage of students in the last 5 years, which reveals the successful of remedial classes being conducted for slow learners.
- The University was recognized for its efforts in maintaining a clean and green environment by the District administration, Guna and the institution was felicitated with the “District Green Champion” certificate for Academic Year 2020-21.
- The research papers published by scholars have seen a spike in recent years, quantitatively as well as qualitatively.
- The online classes conducted during the period of COVID-19 received encouraging feedback from the students. Also, the online alumni meets and webinars held during the pandemic witnessed active online participation of students.
- Students achieve master's level at world’s most recognized competitive coding platform (Codeforces).
- Students bagged internship/placement opportunities in renowned organizations like Google, Amazon, SAP, Goldman Sachs etc.

Problems Encountered and Resources Required

- Tremendous efforts are required for the students coming from Hindi medium background in terms of improving their communication skills in English to enable them to perform well in academic as well as placement activities.
- The level of interaction in the online classes during COVID-19 was found to be quite low compared to the physical classroom which subsequently made the faculty’s job arduous to award reasonably fair internal marks to the students. Apart from this, students faced problems in their deep understanding of subjects in online classes.
- The University offers a variety of audit courses such as "Human values and professional ethics", "Indian constitution and traditional knowledge", and "Programming in Python" as these courses play a vital role in their professional career but lesser attendance of students in the audit courses due to zero credit calls for motivating the students to understand the significance of these courses in their day-to-day life.

2. Title of the Practice: Rainwater Harvesting at JUET campus

Objectives of the Practice: Since its inception, a manmade lake was envisaged on campus, by excavating the rock and sandstone. The excavated stone was used in the construction of buildings in the University as building blocks and also as fine and coarse aggregate with the help of a stone crusher plant installed in the campus. Lake created by excavation is used as a water catchment area. Rainfall in the campus is approximately 600 – 1000 mm during the month of June, July, and August each year. Subsequently, the stored water is used for maintaining lawns and watering the trees and plants inside the campus.

The Context: To create a rainwater harvesting facility in the campus capable of supplying water throughout the year required a lot of challenges to be addressed. The area in and around JUET campus has an underlying layer of sandstone, which roughly starts after 1 – 2 meters of top soil, and extends up to a

depth of 8 – 10 meters. Due to the presence of this stony layer, it becomes difficult to make a borehole to draw groundwater. The district depends on two dams that collect rainwater, which is then supplied to the area. To address the problem of water shortage JUET management envisaged a water catchment area inside the campus by excavating the sandstone**.** This artificial lake inside the campus thus catches the surface rainwater. With normal rainfall during the rainy season, this lake is capable of storing rainwater and surface runoff, which is then utilized for watering trees and plants throughout the year.

The Practice: The majority of urban/artificial lakes are built for leisure, aesthetics, and other recreational uses. It serves as a means of bringing nature closer to city dwellers, and lakes with better water quality improve people's quality of life. The artificial lake is one of the attraction points and has become an identity of the University. The three key elements that influence the physical properties of a lake are temperature, light, and wind. The University lake helps in keeping the campus environment at moderate temperature, with adequate sunshine and wind. The artificial lake inside the JUET campus is a result of rainwater harvesting. The impervious rock bottom of the lake ensures negligible water percolation. The entire drainage system has been designed in such a way that all the drains inside the campus are directed towards the lake, consequently, water collected from the rooftops of the buildings, drains and roads is directed to the lake through drains. The lake water is then drawn with the help of pumps, filled into the tankers and subsequently these tankers filled with water are taken to the different spots of the University for the purpose of irrigation and watering. In addition to lake water, the treated wastewater from the sewerage treatment plant (STP) is also utilized in horticultural activities. A pathway has been built all around the lake and is used by the inhabitants of the University for walking and jogging thus acting as a facility for individuals to rejuvenate themselves after a busy academic schedule. It is the only place in the University that captivates everybody’s attention with its mesmerizing view. The University put a lot of emphasis on the beautification of the lake and its surrounding areas which is ensured by the periodic maintenance of the lake done by the dedicated construction and maintenance staff of the University. The lighting, greenery and beautification of the lake and its surrounding areas also help in attracting many migrant birds of rare species with an upsurge seen every year. The level of surrounding groundwater is also raised and recharged by this lake. In the B. Tech curriculum, there is a mandatory course on “Environmental studies” where students are required to make a visit to the JUET lake and prepare a report related to lake ecosystem dynamics, flora and fauna around the lake as one of the project topics allotted to them.

Evidence of Success: The purpose of creating an artificial lake was twofold, (i) to construct the entire infrastructure required in the University with the blocks excavated from the earth; and (ii) for rainwater storage. The following outcomes ensure the successful implementation of this practice:

- The building blocks excavated have been successfully employed for all the construction activities in the campus, thus saving lot of cost in terms of bricks/stone blocks required for the whole construction.
- The lush green campus is evidence of how effectively the harvested water has been utilized in the campus.
- The lake helps in raising the groundwater level in the surrounding areas by recharging the underground water. It further stimulates the cultivation of plant varieties that require a lesser amount of water and attracts migratory birds.
- The availability of water throughout the year due to water harvesting resulted in a spike in cultivable areas in recent years.
- The area surrounding the lake witnesses a good number of residents jogging and walking during morning and evening hours.

- The mesmerizing view of the lake that captures and holds everyone's attention acts as a rejuvenator for all the residents of the University.

Problems Encountered and Resources Required: The University faced the following problems in the successful implementation of this practice:

- Initially, massive machinery was required to dig the earth and subsequently size reduction equipment of huge capacity was deployed to get building blocks of the desired size.
- A lot of resources primarily manpower is required for the maintenance of the drainage system as it is the main source of water collection which finally flows into the lake where it gets stored.
- The maintenance of the lake and its surroundings along with the cleaning of water are some of the challenges which require continuous monitoring and supervision by the maintenance staff of the University.
- The deployment of security around the lake is required especially during the evening hours when a large number of students wander.
- The pumps of huge capacity are required to enable the transfer of lake water to the water tanks which makes the overall process energy intensive.

At times, heavy rainfall causes the lake to overflow and to avoid water-logging in the campus, the state-owned drainage system require regular maintenance by University dedicated staff.

File Description	Document
Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

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

Response:

Inculcating Societal Responsibilities & Values in Students

"This institution should honestly serve the primary cause of regional, national and international educational demands." This was the aim of our founder Shri Jaiprakash Gaur, which we sincerely seek to implement.
We believe that education is much more than academics; it also entails learning to interact with others and therefore becoming conscious of social, environmental, gender issues, and societal imbalances. Every student learns to contribute to nation building. The University seeks to instill social ideals and values in its students so that they have a lifelong sense of responsibility towards society. As a first step, the University appointed a large number of support staff for security, horticulture, housekeeping and maintenance from the local population, giving a boost to the local economy.
The University is located in a relatively rural, developing area it has taken great effort to contribute back to the community, in keeping with its mission of contributing toward the country's socio-economic development. The University is fully residential where all the faculty and students reside inside the campus which ensures 24 × 7 availability of the faculty for the students. The University undertakes the following

activities with the active participation of students throughout the year in various forms to inculcate societal responsibilities and values in the students:

1. Student Induction Programme (Deeksharambh): The academic journey of the newly admitted students begins with the student induction programme, also known as Deeksharambh, before the formal commencement of the first semester. Besides guiding new students, this induction programme also provides students with an overview of the University's beliefs and mission during a one-week programme. Sessions pertaining to ethics, values, technical, gender, various competitive examinations and other relevant topics are delivered by eminent personalities and university alumni, thus setting a foundation for students in becoming responsible citizens who can contribute to the betterment of society.

2. Universal Human Values: The University organized an offline AICTE workshop on Universal Human Values in which all the faculty and staff participated. Faculty members engage with students on a regular basis through open discussion on a variety of related themes. The University encourages its employees and students to attend short-term online workshops related to human values. The human values are further ingrained in students by following value-added courses being taught during their B.Tech course:

(i) Human Values and Professional Ethics

(ii) Indian Constitution and Traditional knowledge

3. Environmental Consciousness: To make students aware of environmental issues and challenges, a course on "Environmental Science" has been included in the B.Tech curriculum for all the branches. Though this is a mandatory course to be run as per UGC guidelines, the University also takes this opportunity to organize field visits to various locations inside and outside the campus related to domestic and wastewater treatment practices, flora, and fauna etc. The students are also required to submit a report of the site visit based on their observations. These types of activities make them more sensitive and caring towards the surrounding environment, considered to be a key societal responsibility of every individual. Besides, the university also conducts environment and green audits through external agencies.

4. JUET Youth Club (University student community) activities: As a special thrust, societal development is instilled in the students on a broad scale through the active JUET Youth Club (JYC). The cultural wing of JYC organizes various plays on the themes related to woman empowerment, the importance of cleanliness in our day-to-day life, life in rural areas, and the menace of drugs and its impacts on youth etc. Similarly, the literary club organizes debates on topics that are directly or indirectly related to the development of society against social evils which prevail in our society. Apart from this, JYC also organizes Youth Parliament where they get to know how the problems related to various communities, gender, and the area is raised in both the houses of parliament along with the passage of bill. JYC is also instrumental in organizing cleanliness drives on the University campus. All these activities leave an indelible impression on the students' mind and make them sensitive toward the issues which the general public faces in their daily life.

5. Cleanliness Awareness: One of the main issues in rural areas is the importance of cleanliness and water in one's life. A team of students along with a faculty member visits the villages in the vicinity of the campus. Awareness programmes are conducted to make people understand (i) the ill effects of plastic (ii) the issue of water scarcity in the coming years hence ways to be adopted for rainwater harvesting to deal with this momentous problem. Our persistent efforts for the social welfare of people living in the nearby areas helped us achieve certification of a Recognized Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution by the Mahatma Gandhi National Council of Rural Education under the Ministry of Education. The University successfully framed the SES REC action plan and has constituted ten working groups for improving facilities in the campus and the community/adopted villages in the areas of Sanitation & hygiene, Waste management, Water management, Energy conservation and Greenery. Our relentless efforts toward maintaining a pollution-free environment were recognized by the district administration, Guna and JUET was felicitated with the "District Green Champion" certificate for the entire Guna district for Academic Year 2020-21. These types of awards/recognitions motivate students

to do more for society.

6. Unnat Bharat Abhiyan: Unnat Bharat Abhiyan aims at transforming rural India by leveraging knowledge institutions to help build the architecture of an inclusive India. In this context, a team of students along with nominated faculty members visit the nearby villages and help identify development challenges and suggest appropriate solutions for accelerating sustainable growth including community-based participatory research and masters training programmes.

7. Miscellaneous activities: Following activities are also undertaken by the students, indicating their willingness to contribute back to society:

- During COVID-19 period, one of our students developed a mobile application to keep track of COVID-19 positive patients.
- Students organized donation drives to help poor people living in nearby rural areas.
- Some of our students visit nearby villages regularly on weekends and help the children in their studies.
- Students conducted an awareness workshop on “Digital fraud” for people living in the nearby villages so that they do not fall prey to digital malpractices.

File Description	Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

JUET has been instrumental in organizing the talks by various eminent personalities like Dr. Chandrashekhar Buddha (CCO, AICTE), Prof. Pankaj Jalote (IIIT, New Delhi), Prof. Vasudha Kamat (NEP Draft Committee), Prof. K.K. Aggarwal (Chairman, NBA), Prof. Sheng-Lung Peng (National Taipei University of Business, Taiwan), Prof. Vincenzo Piuri (University of Milan, Italy), etc. To make evaluation conducive, the University collaborated with various online evaluation supporting agencies to ensure impartial and proctored evaluation. Many students and faculty members have participated in the AICTE-SLA project PARAKH, and are being encouraged to get themselves assessed through it regularly. The University has successfully ensured the implementation and adherence to COVID-19 SOPs inside the campus.

The University actively engages with the Innovation Cell established by MoE, the Government of India, and has successfully organized several awareness talks for its students and faculty members.JUET, Guna has successfully implemented the system for the availability of digitally verified degree certificates online from the government-approved NAD on Digilocker. The University has also participated in National Intellectual Property Awareness Mission (NIPAM) in collaboration with controller general of patents, design and trade marks. JUET was designated as a nodal center for organizing Toycathon in 2021, which was supported and promoted by the Ministry of Education and AICTE. The University has its “Unnat Bharat Abhiyan cell” with 18 members. The University has been awarded the "District Green Champion Certificate” for the academic year 2020-21 by MGNCRE, MoE, India. The JUET has also been recognized as Social Entrepreneurship, Swachhta, and Rural Engagement Cell (SES REC) institution by MGNCRE.

The University has a well-formed quality control structure monitored through dedicated committees like the DAIP committee to work as per University/UGC guidelines in coordination with the Institutional Academic Integrity Panel (IAIP), MulyaPravah, and Jeevan Kaushal Committee with the purpose of inculcation of human values and professional ethics and curriculum of life skills, and CARE (Consortium for academic and research ethics) for publication of research papers, to name a few. The University is a registered higher education institute under the initiative Vidyanjali taken by the MoE to strengthen support to the students, faculty, and institutions of higher education by volunteerism.

Concluding Remarks :

A 122.5-acre lush-green fully residential campus embellished with a beautiful lake and state-of-the-art teaching-learning resources provide a conducive environment for the 360-degree development of the students. Excellent placement records of the students show that the students that university produces are industry-ready. On the research front, faculty members and students have published various articles and book chapters in highly regarded journals and books, respectively. Regarding Ph.D. theses, the University's two-level evaluation scheme, and the encouragement for publications in SCI indexed journals reflect the JUET's intent of not compromising on research quality. Progression activities for students and faculty members in the form of FDPs, workshops, expert talks, technical events, etc. take place around the year. Various committees and cells have been set in place to ensure equal opportunity, grievance redressal, woman harassment, etc. BOM, AC, and BOS are the statutory bodies responsible for governance and management at JUET. The University comes forward to bear its social responsibilities and this trait is apparent in the JUET's active role in Unnat Bharat Abhiyan under which it has adopted five nearby villages. The JUET provides an eco-friendly campus with water harvesting

and energy conservation mechanisms in place. IRP tool facilitates the day-to-day academic and administrative chores to be handled in a streamlined fashion. During the COVID-19 closure, the University adopted modern and effective online teaching-learning, examination, invigilation, and evaluation tools and techniques to ensure unbiased reach of education to its students.

Like any other institution, JUET has its share of opportunities and challenges. Its isolated location presents a difficult challenge in attracting students from the outside regions, and the indifference of students in the nearby rural areas towards higher education prevents enrolments from the local regions. JUET is working on spreading the potential of higher education in the surrounding areas through its various outreach activities, the outcome of which is encouraging as a greater number of students are taking admissions from the nearby areas. JUET acknowledges that it needs to diversify its student intake, further strengthen the research output, bolster its linkages to industries and other institutions for research & consultancy and build a more participative alumni network.

6.ANNEXURE

1.Metrics Level Deviations

<table>
<tr><td>Metric ID</td><td>Sub Questions and Answers before and after DVV Verification</td></tr>
<tr><td>2.4.4</td><td>Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years

2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years
Answer before DVV Verification:
<table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>12</td><td>17</td><td>3</td><td>5</td><td>1</td></tr></table>
Answer After DVV Verification :
<table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>12</td><td>16</td><td>3</td><td>4</td><td>1</td></tr></table>
Remark : DVV has not consider shared certificates of appreciation and participation.</td></tr>
<tr><td>2.5.1</td><td>Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

2.5.1.1. Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years
Answer before DVV Verification:
<table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>14</td><td>12</td><td>5</td><td>9</td><td>8</td></tr></table>
Answer After DVV Verification :
<table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>12</td><td>12</td><td>12</td><td>8</td><td>8</td></tr></table></td></tr>
<tr><td>3.1.3</td><td>Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.

3.1.3.1. The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.
Answer before DVV Verification:
<table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td></tr></table></td></tr>
</table>

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
79	29	44	34	30

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
55	13	29	21	10

3.6.2 **Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the last five years**

3.6.2.1. **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
75	33	1	2	1

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
1	7	1	2	1

Remark : DVV has made the changes as per not considered participation certificate, Award recognition received for World Environment Day Celebration. Also DVV has considered award and recognition received for one activity once for a year.

4.2.3 **Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

4.2.3.1. Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
21.39	17.59	23.42	22.12	41.03

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
16.21	09.25	12.0	8.52	6.21

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

4.4.1 **Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years**

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
374.99	304.32	395.74	463.48	316.68

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
14.02	16.32	95.25	63.25	21.05

Remark : DVV has made the changes as per considered Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary only.

5.3.1 **Number of awards / medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) during the last five years.**

5.3.1.1. **Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
5	0	1	1	102

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18

3	0	1	1	102

6.3.3 **Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.**

6.3.3.1. **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
49	54	49	47	38

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
2	3	1	1	1

6.5.2 **Institution has adopted the following for Quality assurance**

1. Academic Administrative Audit (AAA) and follow up action taken

2.Confernces, Seminars, Workshops on quality conducted

3. Collaborative quality initiatives with other institution(s)

4.Orientation programme on quality issues for teachers and students

5. Participation in NIRF

6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).

Answer before DVV Verification : A. Any 5 or more of the above
Answer After DVV Verification: C. 3 of the above
Remark : DVV has select C. 3 of the above as per shared report by HEI.

7.1.2 **The Institution has facilities for alternate sources of energy and energy conservation measures**

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Answer before DVV Verification : B. 3 of the above

	Answer After DVV Verification: C. 2 of the above Remark : DVV has select C. 2 of the above as per shared report by HEI.
7.1.6	**Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:** 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions / awards** 5. **Beyond the campus environmental promotion activities** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: B. 3 of the above Remark : DVV has select B. 3 of the above as per shared report by HEI.
7.1.7	**The Institution has disabled-friendly, barrier free environment** 1. **Built environment with ramps/lifts for easy access to classrooms.** 2. **Divyangjan friendly washrooms** 3. **Signage including tactile path, lights, display boards and signposts** 4. **Assistive technology and facilities for 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** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: B. 3 of the above Remark : DVV has made the changes as per shared report by HEI.
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.** 1. **The Code of Conduct is displayed on the website** 2. **There is a committee to monitor adherence to the Code of Conduct** 3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff** 4. **Annual awareness programmes on Code of Conduct are organized** Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. 3 of the above Remark : ?VV has made the changes as per shared report by HEI.

2.Extended Profile Deviations

ID	Extended Questions
1.5	**Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1478	1192	1815	1797	1674

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1478.06	1192.03	1815.02	1797.021	1674.02