



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

JEPPIAAR INSTITUTE OF TECHNOLOGY

**JEPPIAAR INSTITUTE OF TECHNOLOGY, KUNNAM, SUNGUVARCHATRAM,
631604**

www.jeppiaarinstitute.org

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Jeppiaar Institute of Technology is a **Christian Minority Institution**, affiliated to Anna University, Chennai, **approved by AICTE** and certified with **ISO 9001:2015**. It was established in 2011 by our Honourable Chairman Late Col. Dr. Jeppiaar. The concept to build environment-friendly sustainable living practices is achieved in our Green Campus situated among the Electronic Belt of Sriperumbudur in a **widespread area of 12.52- acre land** at Kunnam, Sunguvarchatram, Sriperumbudur, Chennai. Jeppiaar Institute of Technology is an entity of Jeppiaar Remibai Educational Trust.

Our honourable **Chairman Late Col. Dr. Jeppiaar** is well known for his dedication to spreading knowledge among the youth of India through technical education. Jeppiaar Institute of Technology propels relentlessly towards fulfilling the chairman's vision

“Aspires to provide technical education in futuristic technologies with the perspective of innovative, industrial and social application for the betterment of humanity”.

Jeppiaar Institute of Technology is the first institution in India to establish a laboratory with the incorporation of **‘Innovative Cloud Computing Technology’**. All the classrooms are Computer-Aided Instruction (CAI) enabled with wall mounted Multimedia LCD Projectors, making complete use of the modern-day teaching aids. Presently, the college offers six undergraduate engineering programs namely **B.E. Computer Science and Engineering, B.E. Electronics and Communication Engineering, B.Tech. Information Technology, B.E. Mechanical Engineering, B.Tech .Artificial Intelligence and Data Science, B.Tech Computer Science and Business System and postgraduate program - Master of Business Administration(MBA).**

- **ARIIA 2021**-Secured all India rank Band Excellent position.
- **ARIIA 2020** -Secured all India Rank 6th-25th(Band A) position
- 9th AICTE – CII Survey award - Gold Rating.
- Launched UnitySat – JIT Satellite through PSLV-C51on February 2021 in association with ISRO, CSPD - Serbia.
- **Ground Station** is established that receives the telemetry and real-time data from UNITYsat and Open Access Satellites for R&D Activities.

Dr. N. Marie Wilson, our Managing Director, works ceaselessly to propagate professional education for the advancement of students with the right attitude and requisite skills to accelerate them into higher stratum in their respective fields. Today, Jeppiaar Institute of Technology acts as a springboard for thousands of aspirants for a world-wide career with the support of a team of experienced faculty.

Vision

"Jeppiaar Institute of Technology aspires to provide technical education in futuristic technologies with the perspective of innovative, industrial, and social applications for the betterment of humanity"

Mission

To produce competent and disciplined **high-quality professionals** with the practical skills necessary to excel as innovative professionals and entrepreneurs for the benefit of society.

To improve the quality of education through excellence in **teaching and learning, research, leadership**, and by promoting the principles of scientific analysis, and creative thinking.

To provide **excellent infrastructure**, serene, and **stimulating environment** that is most conducive to learning.

To strive for **productive partnership** between the Industry and the Institute for research and development in the emerging fields and creating opportunities for employability.

To serve the **global community** by instilling ethics, values, and life skills among the students needed to enrich their lives.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Jeppiaar Institute of Technology is lead and managed by highly qualified vibrant educationalists, steadfast in improving the quality of technical education.

Institute Assimilation

Motto: Self-Belief, Self-Discipline, Self-Respect

- 650+ hours of efficient Technical cum Soft skills training per student.
- Innovation and Entrepreneurial skill development
- Holistic development in Co-curricular and Extracurricular activities
- Excellent campus and infrastructure with good support facilities such as Hostel, Mess, Transport, and Campus Maintenance.

Pride of Jeppiaar Institute of Technology

- Industrial based Laboratories for upgrading skills.
- MHRD Institution's Innovation Council (MIC) to foster the culture of Innovation.
- MOU-Collaboration between Jeppiaar Institute of Technology and Industry/Institutes.
- International, National **Nanosatellite Research** development activities, involving teams of experts, faculty members, and students from multiple disciplines.

TMISAT-Israel, CSPD-Serbia, Open Cosmos-UK, ISRO-India, UNISEC India,
ITCA-Bangalore, TSC Technologies-Bangalore, HAM-Bangalore.

- Tamilnadu's first affiliated college to launch the satellite in LEO Orbit in association with ISRO -"UNITYsat- launched on 28th Feb 2021.

- 5 CANSAT's were launched as a part of Student Nano Satellites' Mission 2022–An Indo Israel Collaboration
- Participated in world CANSAT rocketry competition held in Serbia and won Jury Award.
- Established Centre for Nano-Satellite Research Lab - Ground Station.

Accomplishments:

- Times Institute Engineering Ranking 2020-78th, 68th & 49th Position out of all Engineering Colleges, Private Engineering colleges in India and on Placements respectively.
- India Today College Ranking–Ranked among top 200 Institutions in India.
- Five-star rating with a score of 95% and 115 Reward Points for Institution's Innovation Council (IIC) under Ministry of Human Resource Development and Ministry of Education.
- Grants from government & non-government Organizations amounting to Rs.37,98,893/-
- IEEE-Best Student Branch Award from IEEE Madras section (2013 to 2021)
- IETE-Best Student Chapter Award from IETE Chennai centre (2019 to 2021)
- Students received Richard E Merwin Award worth \$1000 from IEEE Computer Society, Washington.
- Guinness World Record in Aero & Space Modeling venturing with ISRO community and ISSE.
- Winner of Smart India Hackathon 2020 with 1,00,000 cash Prize.
- "MOST PROMISING INNOVATOR" AICTE award with 35,000 cash price.

Institutional Weakness

Jeppiaar Institute of Technology always initiates a higher stream of standard and works efficiently to overcome the limitations.

It takes proactive measures to improve the quality of teaching, learning, and research. Though the institute has sculpted and continues to sculpt many success stories, there are certain areas in which it needs to make an advancement.

There is a need to overcome the limitations in the following areas:

- Limited academic autonomy in framing curriculum and syllabus.
- Greater number of behavioral problems in students.
- Located in a rural outland.
- Lack of NRI Student Attraction.
- Inadequate funded programs.
- Require more focus on core industrial domains, besides major software domains.
- Industrial and Consultancy related projects need to be hard-pressed.
- Progress towards higher education is recessed.

Institutional Opportunity

It is optimism that drives any institution to move forward. In the past two decades, Jeppiaar Institute of Technology has made use of the opportunities available and has moved ahead with a high level of optimism. The college can sculpt more success stories in the days to come, taking due advantage of the following opportunities.

- Various initiatives by the Government, AICTE, and Anna University to improve the quality of faculty members and students eg. STTP, FDPs, MHRD IIC, etc.
- Various competitions for students to improve their skills e.g. Smart India Hackathon, Viswakarma Contest, TCS code vita, Accenture Challenge, ATOS IT Challenge, etc.
- Various online courses to improve the quality of faculty members and students: e.g. NPTEL, Swayam, Coursera, Udemy, etc.
- Interdisciplinary growth across the departments.
- Upsurge and strengthen internal and external collaborations.
- Opportunity to exploit on potential Centre of Excellence.
- Establish sturdier relationships with R&D organizations.
- Further impact on economic development in the surrounding region.
- Use the budget crisis to become more innovative, eliminate non-essential elements to become more productive at essential functions.
- Intensification of fundraising efforts and alumni funds of vital importance to the future success of the College.
- Technology transference to industries.
- High tech entrepreneurship.
- Earnest efforts are being made to sign MoUs associating with a greater number of industries/institutes.
- Design strategic and long-term policy and programme frameworks and initiatives, and monitor their progress and their efficacy.

Institutional Challenge

Jeppiaar Institute of Technology believes in “Biggest rewards comes from biggest Challenges”. Every Challenge faced by the institution is surmounted with the united efforts of the Management, faculty members, and the students. Following are the major challenges faced by the institution in recent days:

- Attracting quality students towards the Engineering course enrolment.
- Demand towards the emerging technology.
- Expectations of Parents and students Outlook and attitude of the new generation students.
- Faculty and Student exchange program with international Universities.
- Academic excellence in terms of pass percentage and University ranks.
- Enhancing the employability skills of students towards dream offers.
- Confrontation of NIRF Ranking.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

- The college pursues the **curriculum and syllabi** prescribed as per **Anna University**. It has formulated the ensuing strategies for the effective delivery of the teaching-learning process.
- The **student-centered instruction** model focuses on measuring student performance through outcomes including knowledge, skills, and attitude.
- **Department Advisory Board** has been framed with the state-of-the-art requirements of the industry,

incorporating the necessary modules apart from the curriculum.

- An Objective-driven **academic schedule** is formulated at the beginning of each semester in alignment with the University issued calendar.
- Centralized **internal assessment tests** are conducted thrice per semester.
- **ICT enabled classrooms** has been provided for effective curriculum delivery and to help students with effortless learning.
- **Coaching Classes** are conducted for slow learners and supervision for groomed students to enhance their skills.
- Both Students and Faculty members are encouraged to attend conferences, industrial training, the delegation meets, immersion programs, internships, etc
- **Value Added Courses (VAC)** are rendered mandatory for all the students. All the VACs are approved & credited by the affiliated university.
- **Hackathons, Project Expo, Professional Societies, MOOC & Technical Clubs** are organized/participated to enhance the student's accomplishment.
- Prominence is given for maintaining a clean and green campus along with proper facilities that hold professional ethics and human values.
- Project-based learning is encouraged where students gain knowledge and skills by working for an extended period to investigate and respond to a problem statement.
- **Internshala- AICTE Internship** partner provided **300+** offers.
- **Advanced Training Institute (ATI)** for groomed students are sponsored every year for a maximum period of 2 weeks.
- **IQAC** collects the propositions and feedback from the student's representatives through class committee meetings/in contact with the students and the necessary actions are undertaken.
- **The student feedback system** is generally used to evaluate the performance of faculty for effective enhancement of course delivery.
- **Feedback** from students, employers, alumni, and parents are analyzed and appropriate action is carried out for the betterment of the student fraternity and development of the institution.

Teaching-learning and Evaluation

- Incorporation of knowledge, behavior, and skills add to the wide range of learning objectives using Bloom's Taxonomy. The students are enrolled based on the eligibility criteria formulated by the affiliating University through a Centralized admission procedure.
- Coaching classes are conducted for slow learners and supervision for groomed students to enhance their skills. Teacher's workload and their availability to offer services and care to the student is in a ratio of 11.44
- Student-centric methods are embraced for an augmented learning experience by assimilating Lesson Plan, Content beyond Syllabus, project-based learning, etc. Besides, to innovate and create contemporary teaching objectives, usage of smart classrooms, workshops, Group Presentations, Value Added Courses, Online Courses, Hackathons, etc is supported.
- ICT which deals with the application of different electronic media in the collection, storage, and rapid access of information to faculties and students, like PPT, Blended Learning, Role Play, Group Discussion, Projects, Quiz, etc are implemented.
- Faculties are trained under Curriculum Design and Development, Assessment and Evaluation, Pedagogic techniques, Teaching, and Learning Methods and Research in Higher Education certified by IITDM.
- Each mentor has approximately 15 + students under their care for academics and stress-related

counselling.

- Teachers against authorized posts are 100 % with an average percentage of full-time teachers with Ph.D. is 26.03%.
- An ongoing practice of Internal Assessment enables the teachers to make data-based decisions to adjust instructional strategies so that they can accommodate the different needs and learning styles of students.
- The awareness of Course Outcomes, Program Outcomes & Program Specific Outcomes are published and disseminated. CO Attainment process is based on the student's assessment performance.
- The assessment tools used for the attainment of Program Outcomes are obtained using direct and indirect methods.

Research, Innovations and Extension

- The college encourages both faculty members and students to contribute towards research by publishing papers, carrying out innovative & social benefiting projects, and filing patents.
- Students and faculty members are actively involved in the extension activities of the neighbourhood community development.
- The details of research, innovation, and extension activities are as follows:
- Research Advisory Committee (RAC) to render advice and guidance for further growth on research. The committee provides advice on Academic Research, Sponsored Research, Consultancy, etc. Robotics Process Automation (RPA), Cyber Security, Nano Satellite Research, Data Science, and IOT are the Laboratories in collaboration with the Industries.
- 3D Printing, Drone, Big Data, Machine Learning, and LINUX Administration are other laboratories that are formed apart from the curriculum. The Institution has been facilitated with quality infrastructure and research laboratories to carry out research and development activities.
- The Institution has received grants of Rs.7,98,893/- from the government, non-government organizations and to carry out research and endowments for achievements.
- Received matching grant of Rs.30,00,000/- under the consortium of TSC-ITCA-CSPD for UNITYsat Programme. As an initiative ground station is established that primarily receives telemetry data.
- Numerous workshops/ conferences/ Project expo/ Seminars are organized through all Departments, Technical Clubs, Entrepreneurship, and Professional Societies. Around 400+ research journal papers and 750+ conferences have been published and 20+ patents are filed. In adjunct, faculties have published books/chapters.
- Faculty members and students are actively involved in various Institutional Social Responsibility activities through structured forums like NSS, YRC, NCC, EDC, Women in Engineering (WIE), JIT-SAVE BOX, and Professional societies. Awards and appreciations have also been received in various extension activities. Innovative projects related to social and environmental problems of day-to-day life carried out by the students, received media coverage.
- Several associations are made with institutions for the benefit of faculty and student development, internship, on-the-job training, and research to enrich their knowledge.
- Jeppiaar Institute of Technology has linked Memorandum of Understanding (MoU) with many industries to bridge the gap between the academic deliveries and industry needs and thereby improve the employability skills of the students.

Infrastructure and Learning Resources

The college has adequate infrastructure and resources that cater to the needs of the students. The details of the infrastructure and learning resources that are available are as follows:

- The infrastructure facilities and learning resources are categorized as under:

Learning Resources include resources and infrastructure required for the library, laboratories, computer center, classroom teaching, events, meetings, and conferences.

Support facilities include CCTV, ATM, hostels, cafeteria, mess, seminar halls, gymnasium, sports facilities, etc.

Utilities include safe drinking water, restrooms, and power generators.

- Spacious, well-lit, and well-ventilated classrooms and Seminar Halls with comfortable seating arrangements are available for smooth conduct of theory sessions. Besides the conventional teaching aids, classrooms are also equipped with state-of-the-art audio-visual technology thus stepping up the teaching-learning experience to a higher level.
- Automated library using **Integrated Library Management System (ILMS)**, with a huge collection of books, back volumes, project reports, printed journals, magazines, newspapers, and Question Banks. Added on there are numerous subscriptions for the available e resources.
- Each Department has its own library with reference books and journals.
- The IT infrastructure and resources are updated and upgraded continuously as per the requirements and changing technology. The Institute is enabled with Wi-Fi Zones with necessary firewalls and computer labs are connected through LAN with internet facilities.
- In addition to the departmental computing facility, the institute has a central computing facility that has dedicated laboratories with desktops and dedicated computer servers.
- Proper maintenance of the infrastructure is carried out by the management team.
- Electricians are available round the clock to address the issue of untimely power breakdown. They also take care of timely replacement and repair of lights in academic blocks, hostels, mess, streetlights, etc.
- Adequate security measures are in place at the campus to ensure the safety and security of residents through CCTV surveillance. The Institute has well barricaded with a boundary wall and security guards at all important locations.
- Doctor on Call and nurse in house facilities are provided round the clock to ensure the health concerns.
- The college has established well equipped and modern laboratories to upgrade the basic technological skills.

Student Support and Progression

- Secured 47th position in terms of academic performance among all 473 affiliated Engineering colleges under Anna University in Tamil Nadu with a total of 14 University ranks.
- Placement opportunities from national and international companies on the campus to recruit young engineers, from all disciplines. Students have received scholarships from the government under SC /ST Scholarship, BC/MBC Scholarship, Minority Scholarship, First Graduate Scholarship.
- The institution supports the deserving students in the board examinations and economically weaker students by providing them Jeppiaar Remibai scholarships for the betterment of their future under the schemes of merit, sports, VAC, professional society, Higher education, and Immersion Program. Academic sponsor for Higher Education in National/International Universities.

- The basketball team has undergone professional training at IMG, Florida for one month, sponsored by the Management. Jeppiaar trophy- a national level basketball & football tournament is conducted. Students who are exemplary in their Studies are supported for their Higher Studies, Placement assistance, pre-placement training for communication, soft skills, etc. from the first year onwards.
- The transparent and effective practice of grievance redressal mechanism related to teaching-learning, discipline, ragging, and sexual harassment are attended to and sorted out immediately.
- Awards/medals are secured by the students for their outstanding performance in sports/cultural activities at the national/international level under various disciplines.
- Muin Bek, our Student has represented the Indian basketball team in FIBA Asian Tournament in 2017 and Asian Qualifiers in 2020, and other such players who represented at the national level got placed in Indian Bank, Railways, ICF, Central Exercises, etc.
- Students are provided with opportunities to develop their organizational, managerial, leadership, and technical skills through Entrepreneurship development cell and professional and personality development societies.
- Student's voices in class committee meetings and Feedback mechanisms for a better learning process. Alumni Association, a registered Alumni society invites alumni for guest lectures, conduction of mock interviews, recent technological advancements, and curriculum feedback.

Governance, Leadership and Management

- The Governing Council (GC) of the Institution meets twice a year to discuss, analyze, and come to an accord on the administrative and academic functions of the Institution.
- Managing Director, Principal, and the GC sets the vision and direction of the institution.
- The organizational chart is prepared and published; also, the roles and responsibilities of each cadre are well defined. Principal, Planning and Monitoring Board Members, and HoDs discuss and plan, the annual budget for establishing the lab and necessary infrastructure that are further recommended and approved by the Governing Council and Management.
- The college has explicitly delegated the financial powers to the Principal & Head of the Department. Utilization of Campus Management System for digital records.
- DAB is formed to guide the departments to provide up-to-date technology to the students through VAC, MoUs, and Institute Industry Collaborations, etc. The faculty recruitment process is done transparently by a panel of division chair, department chair, technical & non-technical experts. The Grievance Redressal Committee, Anti Ragging Committee, Women Grievance Cell & Discipline Committee investigates the grievances of both the students and staff, conducts an inquiry within a day, and settles the grievance related issues cordially.
- Financial aids are provided towards welfare measures, traveling allowances, relief funds, awards & rewards, incentives, special leave, free medical camps, FDP, publications, conferences, online courses, training etc.
- The Institution organizes various professional development programs for enriching the technical and innovative teaching skills.
- All teaching and non - teaching faculties can scrutinize their performance to retrieve their strengths and weakness through a self-appraisal process and be rewarded accordingly.
- Grants are received from non-government bodies, individuals, and philanthropists for the institution's welfare.
- Financial Audit of the Institution is conducted periodically by both Internal and External and appropriate strategies are discussed for the development based on the audit report.
- IQAC cell actively initiates the quality assurance strategies and processes. It reviews the teaching-

learning process, structures, methodologies of operations, and learning outcomes at periodical intervals.

Institutional Values and Best Practices

- **Project Based Learning**, a dynamic classroom approach in which students actively explore real-world problems and challenges and acquire a deeper knowledge.
- **Interdisciplinary Nano Satellite Research** for undergraduates in developing miniature satellites through hands-on training, competitions, mini-projects, technical field trips and research to enable experimental science of designing, implementing and launching Nano satellite into orbit.
- **Design Thinking Club** is committed to creating awareness about design thinking as a human-centered and future-focused creative approach to identify the root cause of the problem and to arrive at probable solutions.
- **Blockchain-based QR Codes** for academic purposes.
- Digital notice board, a new innovative way to broadcast the information.
- A total of 50+ gender equity promotion programs were organized. The top administrative positions are also held by women.
- Provides safety and security for girl students and women employees and has a separate common room and Hostels.
- Developing renewable energy, to impart technical and practical skills through a systematic curriculum.
- Implementing a high energy lighting technology that has the greatest potential impact on energy saving.
- Invested in green initiatives like Rainwater Harvesting, Organic Farming, Reverse Osmosis, and sewage treatment plant by using sprinklers to water plants in the garden.
- Provision of resources friendly to differently-abled persons.
- Undertaking social responsibility initiatives by organizing 100+ awareness programs for the benefit of the local community.
- Code of conduct for students, **HR Policy book**, and **ISO Quality Manual** explaining the roles, procedures, and responsibilities.
- Awakening consciousness of national development by organizing programs related to constitutional and voting rights.
- The college follows a set of procedures for maintaining transparency in all its financial, academic, and administrative activities.
- In remembrance of Dr. M. G. Ramachandran, a Tamil debate is organized every year to inculcate the Tamil ethos among the student fraternity.
- Required provisions are provided to the schools in need of basic equipment in the laboratory and infrastructure.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	JEPPIAAR INSTITUTE OF TECHNOLOGY
Address	Jeppiaar Institute of Technology, Kunnam, Sunguvarchatram,
City	Sriperumbudur
State	Tamil Nadu
Pin	631604
Website	www.jeppiaarinstitute.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	L.m.merlin Livingston	044-27159000	7401222007	044-2715900 6	principal@jeppiaar institute.org
IQAC / CIQA coordinator	S.shenbaga Ezhil	044-6380381924	6380381924	044-2715900 6	iqac@jeppiaarinstit ute.org

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes Print Minority certificate.pdf
If Yes, Specify minority status	
Religious	Religious
Linguistic	
Any Other	

Establishment Details				
State	University name	Document		
Tamil Nadu	Anna University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	17-09-2021	View Document		
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-07-2022	12	

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Jeppiaar Institute of Technology, Kunnam, Sunguvarchatram,	Rural	12.52	44914

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Computer Science And Engineering	48	HSC	English	60	56
UG	BE,Electronics And Communication Engineering	48	HSC	English	60	55
UG	BTech,Information Technology	48	HSC	English	60	59
UG	BE,Mechanical Engineering	48	HSC	English	30	18
UG	BTech,Computer Science And Business System	48	HSC	English	30	25
UG	BTech,Artificial Intelligence And Data Science	48	HSC	English	60	50
PG	MBA,Master Of Business Administration	24	UG	English	60	43

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	7				8				63			
Recruited	2	5	0	7	3	5	0	8	25	38	0	63
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						29
Recruited	16		13		0	29
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						0
Recruited	0		0		0	0
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	3	7	0	10
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	5	0	2	4	0	3	5	0	21
M.Phil.	0	0	0	0	0	0	0	4	0	4
PG	0	0	0	1	1	0	21	30	0	53
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
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			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	639	4	0	0	643
	Female	0	0	0	0	0
	Others	0	0	0	0	0
PG	Male	40	0	0	0	40
	Female	45	0	0	0	45
	Others	0	0	0	0	0

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

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	35	30	38	40
	Female	14	6	14	20
	Others	0	0	0	0
ST	Male	3	2	3	5
	Female	0	1	2	0
	Others	0	0	0	0
OBC	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
General	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Others	Male	200	210	211	200
	Female	43	75	115	113
	Others	0	0	0	0
Total		295	324	383	378

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>Jeppiaar Institute of Technology, Kunnam offers a variety of programs in the Engineering fields. The institution gains a multidisciplinary status as a result of the programs it offers in various streams. The programs available follow the CBCS (Choice Based Credit System) pattern, where the credits assigned to the recommended courses are specific. Each course has a set number of credits and is designated as Core, Professional Elective, Open Elective, Skill-Based, or Value-Based. Experiential learning is included in almost all UG programs in the form of projects, and internships. All UG students must take an environmental studies course as part of their curriculum in order to become environmentally aware and sensitive. Values Education education that places a strong emphasis on fundamental human and life values is also included in the curriculum. Students are guaranteed to develop holistically due to the breadth of various programs and the precise objectives of various courses. Students who sign up for research programs will be urged to conduct interdisciplinary research that will help find the best answers to today's problems and challenges. All programs include a non major elective course in which students from a specific program are exposed to multidisciplinary education by selecting a course from a different domain.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Students with undergraduate and graduate degrees from ABC are permitted to withdraw from and retake the course within a predetermined window of time. The college has fewer options for implementing the ABC system because it is an affiliated institution. However, the organization will follow the rules set forth by the affiliated university. The institution has not yet made any efforts to register with ABC. At our college, instructors are encouraged to offer insightful recommendations for the creation of curricula. Senior teachers who are Chairpersons or Members of the University's Board of Studies offer their opinions on curriculum enrichment. Each student will be able to open a distinct or individual Academic Bank Account through Academic Bank of Credits. Additionally, the owner of the account will be given a special ID and access to the SOP (SOP). By allowing students to earn credits from a variety of HEIs registered under this scheme as well as through SWAYAM, an online repository of courses, the ABC Regulations aim to</p>

	<p>support blended learning. Instructors are constantly encouraged to experiment with novel, learner-centred pedagogies. In addition to the required text and reference books, teachers are free to use any other book or piece of content with content related to the topics covered in the syllabi when teaching and learning. Teachers are also encouraged to provide additional resources and reading materials. The evaluation criteria for both internal and external evaluations prescribed by the affiliating university is strictly followed</p>
<p>3. Skill development:</p>	<p>Implementing specialized programs run by subject-matter specialists improves the development of soft skills. The institution "provides value-based education" through a number of initiatives in addition to teaching the curriculum. Life skill programs are held to advance moral principles. Important days like Republic Day, Independence Day, International Yoga Day, National Mathematics Day Celebration, Independence Day, National Integration Day, and many other significant days / events are observed to encourage national integration. On these occasions, competitions are held to inspire students and cultivate optimism in young people. Every Undergraduate student admitted to the college is required to join one of the technical and non technical clubs.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>India is a cultural treasure trove with a long history that has produced a plethora of art, literature, traditions, artifacts, linguistic expressions, and heritage sites. Language, in particular, influences how members of a culture communicate with others, including family members, superiors, peers, and strangers, as well as the tone of their conversations. Conversations between speakers of a common language, through their tone, perception of experience, and familiarity, reflect and preserve a culture (or "apnapan"). As a result, our languages serve as cultural containers. Since its inception, the college has worked to promote our country's culture and history. The elective courses prescribed in the programme focus on Indian tradition, culture, philosophy, and knowledge system. Being a higher learning institution, the college adopts English language as the medium of instruction. The institution has also observed the difficulties faced by students with the use of English for class room instruction. Taking the socioeconomic, cultural, and</p>

	<p>linguistic backgrounds of the students into consideration the teachers are also encouraged to go with bilingual method of teaching. It has also been discovered that the bilingual mode of delivery improves students' receptive skills. Because the majority of our students come from rural areas, and for a better understanding of the subjects taught, bilingual delivery is encouraged in almost all programs. The college promotes Indian culture and tradition by offering an Indian Culture program, which is one of the state's rare subjects.</p>
5. Focus on Outcome based education (OBE):	<p>Outcome-based education is a system in which all aspects of education are focused on the outcomes of the course. Students enroll in courses with the intention of learning new skills or expanding their knowledge, and they must complete the goal by the end of the course. There is no predetermined learning style or time frame. The student is free to learn at their own pace. Students are guided by faculty, moderators, and instructors based on the desired outcomes. Syllabi for programs and courses specify specific program and course outcomes. Through BoS and Academic Council meetings, the affiliating university is sufficiently represented in curriculum design and development to place a greater emphasis on course outcomes. There needs to be a bigger emphasis on experiential learning in the course offerings. We incorporate project work, job-seeking courses, and skill-based courses into our curricula to make our education outcomes-based. In recent years, the institution has witnessed a move away from conventional teaching methods as the learning process has become more learner-centered. Students are evaluated continuously internally through assignments, seminars, peer team teaching, group discussions, and quizzes.</p>
6. Distance education/online education:	Nil

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, we have Electoral Literacy Club (ELC) in our college and it is effectively functioning with the complete involvement of our students. Through various activities the electoral process of registration
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	and voting is familiarized among students.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	We have both the faculty and student members as coordinator's, appointed by the college and it has its own representatives. The functions of this club are done through involving student participants in various awareness programmes. ELC includes the members as listed below: 1. Chairman 2. Faculty Co-Ordinator's 3. Department staff members 4. Student representatives from each department which is categorized as a) President b) Vice-president c) Secretary d) Joint secretary.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Every year the club conducts seminars to help students know about their rights and encourage them to exercise those rights by participating in the elections. The club also encourages students to take part in competitions conducted by SVEEP (Systematic Voters' Education and Electoral Participation Program) as this will help develop their skills and confidence. Our students and staff have participated in the competitions. Our staff coordinator Dr.Tamilarasi Professor / Computer science and Engineering has actively involved the students in various innovative activities to encourage the students to use their voting rights and spread awareness about the importance of voting among the general public.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Every year students are encouraged do the mini and major projects in Electronics vote Machine (EVM. ELC is creating awareness among the public through posters and Participating competition as per the direction of District collector office. Students also exhibited their society related Projects during the "Project Expo 2022"
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The club collaborates along with the District Collector office who is also the District Election Officer (DEO) periodically participate and assign events to the club to create awareness on the importance of voting through various programs like rally , surveys and conducting Competitions.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
915	983	1149	1084	878

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

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

Response: 156

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	86	83	78

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
1107.44	758.96	1046.96	1083.45	934.24

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Jeppiaar Institute of Technology is a Christian Minority Institution, affiliated to Anna University, Chennai, approved by AICTE and certified with NAAC and ISO 9001:2015. It was established in 2011 by our Honourable Chairman Late Col. Dr. Jeppiaar. The college maintains high academic quality standards; the certification by the NAAC, The concept to build environment-friendly sustainable living practices is achieved in our Green Campus situated among the Electronic Belt of Sriperumbudur in a widespread area of 12.52-acre land at Kunnam, Sunguvarchatram, Sriperumbudur, Chennai.

Jeppiaar Institute of Technology is the first institution in India to establish a laboratory with the incorporation of 'Innovative Cloud Computing Technology'. All the classrooms are Computer-Aided Instruction (CAI) enabled with wall mounted Multimedia LCD Projectors, making complete use of the modern-day teaching aids. Presently, the college offers seven popular professional under-graduate engineering programs namely

- B.E. Computer Science and Engineering,
- B.E. Electronics and Communication Engineering,
- B.E. Electrical and Electronics Engineering,
- B.Tech Information Technology,
- B.Tech. Artificial Intelligence and Data Science,
- B.Tech, Computer Science and Business Systems
- B.E. Mechanical Engineering.

And an Post graduate program Master of Business Administration

- **ARIIA 2020**-Secured all India rank 6th-25th (Band A)
- 9th AICTE – **CII Survey award** - Gold Rating
- **Polar Satellite Launch Vehicle (PSLV)** – C51 is scheduled to launch **UnitySat – JIT Satellite**, one among the 4 payload satellites on 28th February 2021.
- **Ground Station** is established on 28th January 2021, that primarily receives the telemetry data.

Today, Jeppiaar Institute of Technology acts as a springboard for thousands of aspirants for a world-wide career with the support of a team of experienced faculty. The Institution has been effectively practicing Outcomes Based Education (OBE). Curriculum design & development, Pedagogy and Assessment are given highest priority. The quality educational practices supplemented with academic ambience, state of the art infrastructure, pedagogy, academic innovations, research, incubation, training opportunities and entrepreneurship is enabling the institute to produce graduates who are industry ready.

For realization of the vision, emphasis is laid on creating an environment that promotes innovation. This

takes the form of various initiatives to energize the different factors that impact the quality of education. Through Student-centered learning processes the institution puts the authentic knowledge needs on priority. Teaching Learning-Practices (T-L-P) are streamlined for the improvement of academic performance and holistic development of the students. The employability factor is one of the prime considerations in the design and development of outcome based curriculum. The labs are also regularly upgraded in order to stay advanced. The institution has a well-laid strategic plan. The implementation of the vision and plan is executed with the support and with the involvement of all the stake holders. The Governing Council approves the Vision & Mission, Short Term and Long Term goals and the Budget based on the Strategic Plan. The Governing Council ensures that all decisions on the matters such as admission quality, new programmes, infrastructure, Teaching Learning Process and Placements are arrived based on the vision of the Institution.

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

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 44

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 52.25

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
682	681	398	440	416

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

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

Response:

Gender Sensitivity: Students are sensitized and encouraged to work towards gender equity from a cross-cultural perspective. For maintaining equality among the staff and students, the Women's Grievance committee and Anti-ragging committee are active. Counseling services are provided through a Mentoring Cell. Gender sensitization camps are organized in rural areas that include women's rights, human rights, and gender equality. Equal opportunities are given to both genders in terms of admission, academics, employment, training, co-curricular and extracurricular activities. Both boys and girls are made members of various professional & personality development society activities thereby strengthening their latest development in their respective fields. Women's day is celebrated in a grand manner where both students and staff participate in the events. IEEE- Women in Engineering Wing actively organizes several events for female students and faculties. Prominent Kuzhali event is conducted for school and college female students of various institutions by awarding them with cash prizes, two-wheeler, and bi-cycle.

Environment and Sustainability: Environmental Science course is offered to all branches of Engineering in 2008, 2013, 2017 and in 2021 regulations, respectively. It focuses on Environment, Ecosystems, Biodiversity, addresses environmental pollution and conservation of natural resources. Core Courses along with the wide range of community outreach programs that include health and hygiene camps, and village adoption, enable exposure to real-life situations. The institution focuses on Rainwater Harvesting, Organic Farming, Reverse Osmosis, and sewage treatment plant by using sprinklers to water plants in the garden. Tree plantation and various environment-related seminars are conducted to inculcate the importance of the environment by NSS, NCC, YRC.

Professional Ethics and Human Values: Professional ethics are taught to students as part of their holistic development. The importance of group work and imbibing leadership is being taught. Moral and ethical values are an integral part of the education of the students. Our faculties put their best efforts to groom students and make them a responsible citizen. Celebrating the day of Nation importance which imbibes the nation values in the students. Independence Day, Republic Day, Gandhi Jayanti, Teacher's Day, International Yoga Day, Youth Day, May Day, etc

Professional Ethics and Human Value course are offered to all branches of Engineering in all the regulations. This course focuses on human values and discusses engineering ethics, explains the safety and risk factors, responsibilities, and rights of engineers, and addresses global issues, moral leadership, loyalty, and appreciation of the rights of others. As an integral part of student engagement in social activities during their program study, students are enrolled as volunteers in NSS/NCC/YRC. It aims at inculcating values, ethics, and socially responsible qualities.

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

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

Response: 59.13

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

Response: 541

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 63.19

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
288	207	246	199	349

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
360	420	420	420	420

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 23.63

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

2021-22	2020-21	2019-20	2018-19	2017-18
34	45	46	49	67

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

2021-22	2020-21	2019-20	2018-19	2017-18
180	210	210	210	210

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

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

Response: 11.44

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 using ICT tools

Response:

JIT believes in the adoption of student’s centric methods to enhance student involvement as a part of experimental learning, participative learning, and problem-solving methodology. Apart from the conventional chalk and talk method, the teaching process has been upgraded to provide quality education and a good learning experience for the students. Experimental Learning Project Work Project work is organized in two phases – Mini project and Major Project, an essential part of each program. Internship or Field Projects done through the industry. Participation in competition at various level For Real-time exposure, students are encouraged to participate at the National and International levels. Industrial Visits The faculty in-charge identifies and proposes academically significant field visits Internships Period of work experience offered by an organization for a limited period, categorized as paid and non-paid. Participated Learning Role Play Role-playing takes place between two or more students, who act out roles to explore a particular scenario. By preparing for a situation using role-play, build up experience and self-confidence with handling the situation in real life, and develop quick and instinctively correct reactions to situations. Group Presentation Break complex tasks into parts and steps getting a variety of perspectives, improving the vocabulary, learn to teach, learn to manage personalities, leverage talent, and learn to negotiate.

Technical Quiz Engage the students in a unique and fun way and relate them to the learning material conducted through the Kahoot platform. Tech Talk Helps students stay up to date in harnessing technology and become better communicators on campus. Project Expo Students are invited to explore the technologies and to showcase their skills. Guest Lecture/Seminars/Workshops Guest lectures/Seminars by eminent experts from industry and academics, across the world, are organized to supplement the teaching process and provide experiential learning. Professional Societies Be a part of a distinguished society at the

forefront of product innovation, providing opportunities and timely information on the world of technology. Technical Clubs It is a credit to the mental and intellectual focus of the students that many of the clubs are extensions of their academic and career aspirations. The clubs bring about a good balance of work, fun and leisure activities. Problem-solving Methodology Case studies The case study method is adopted in the teaching-learning process to make the students need logical thinking and practical knowledge to develop problem-solving ability. Analysis and Reasoning All questions in the examination are based on analysis and reasoning. Free internet access in the library and Wi-Fi facilities on campus promotes the habit of self-learning and discussion. Quizzes Quizzes are conducted by subject faculties in all UG programs. Students are provided with a real foundation for intellectual growth. Research Activities Research activities are conducted in each Department under the guidance of faculty where the students get knowledge about the emerging area and help them to promote Research propensity. Value-added programs The students are also motivated to embark on the value-added program, which is designed by industry experts along with expert faculty members to fulfill the curriculum gaps.

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

2.4 Teacher Profile and Quality

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

Response: 98.33

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	86	84	84

File Description	Document
Upload supporting document	View Document

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

Response: 26.03

2.4.2.1 Number of full time teachers with NET/SET/SLET/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
23	28	25	17	14

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

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

Response:

Institution is affiliated to Anna University and follows the guidelines of the University for conducting the internal assessment examinations. As per the Anna university schedule, the academic calendar has been framed by discussing with the Principal, HODs along Exam Cell coordinator. The institute conducts three internal assessments (Mid Sem 1, Mid Sem 2, and Model) respectively. As per the schedule mentioned in the academic calendar, the timetable is framed by the exam cell based on the syllabus coverage report and the same will be approved by the Principal. The scheduled timetable by the Exam Cell is announced and displayed in the Department Notice Boards and the same is communicated to the parents through SMS. The faculty members send the question bank to the exam cell in the prescribed format. The course coordinators prepare two sets of question papers based on Bloom's taxonomy. The question paper dispenses relevant Course Outcomes (CO's) and submits the same to the Exam Cell. On the day of the examination, one set of question paper will be selected by the Exam Cell coordinator on a random basis. Seating allocation of the students for the internal exam will be displayed on the exam cell notice board and respective Department notice board. Attendance is maintained during the assessment period by the Exam cell. The information regarding the absentees is forwarded to the respective Heads of the Department for further process. The reason for absenteeism is verified by the Heads of the Department and retest is conducted for genuine reason. The Central Evaluation system is followed for answer script validation based on the answer key. Marks will be submitted to the Exam Cell after the distribution of answer scripts and the required corrections are done by the respective faculties. During the counseling session, the counselor discusses with the students about personal or subject-related issues. The class committee meeting is conducted before the commencement of each Internal Assessments to know the feedback and grievances from the students such as syllabus coverage, availability of study materials, course devlivery, etc. Based on the performance in the Internal Assessments, special/revision classes are conducted beyond class hours for the students categorized as less prepared students, Internal marks are calculated based on the Internal Assessments, Assignments, attendance, etc for 20 Marks. Parents are informed about their ward's performance through a progress report at the end of every internal assessment and called for a meeting by the respective counselor if the performance of the student is poor. These internal assessment policies help the institution to grow qualitatively and achieve the mission and vision.

The students can view their external and internal marks in the Anna University web portal using their login

credentials. The details of the internal assessment mark are sent to their parents through SMS and progress reports. The students' progress is discussed during parents' meetings held every semester.

All the examination related instructions provided by Anna University is displayed on the notice board and informed to the students. If any malpractice is found during Anna University's semester examination, it is immediately reported to the university through the invigilator, university representative, and Chief Superintendent, and necessary action will be taken by the University, as per the university norms. Through this transparent mechanism, the institution addresses the grievances related to the internal and external examination.

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

2.6 Student Performance and Learning Outcomes

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

Response:

The process of attainment of COs, POs, and PSOs starts from writing appropriate COs for each course of the program in a four-year engineering degree. The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom and Anderson. A correlation is established between COs and POs on a scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects. The course outcomes are written and their mapping with respective POs is reviewed frequently by a committee of faculty members and finalized.

Attainment of Course Outcomes Course Outcomes are narrower statements that describe what students are expected to know and be able to do at the end of each course. These relate to the skills, knowledge, and behavior that students acquire in their enlistment throughout the course. The CO attainment levels are measured based on the results of the internal assessments and external examination conducted by the university. This is a form of direct measurement of attainment. In the university with which the institute is affiliated, three internal assessment tests are conducted for each course in a semester. In each test, the percentage of students who achieve a set target for the COs that are covered is computed. After the three tests, the average of these percentages is computed to decide the attainment level. NBA has given, in its SAR format, the following example guidelines for arriving at an attainment level: Attainment Level 1: 60% of students scoring more than University average percentage marks or set attainment level in the final examination. Attainment Level 2: 70% of students scoring more than University average percentage marks or set attainment level in the final examination. Attainment Level 3: 80% of students scoring more than University average percentage marks or set attainment level in the final examination. Attainment of Program Outcomes & Program Specific Outcomes Program Outcomes (POs) are one step broader statements than COs that students are expected to know and be able to do upon graduation. These relate to

the skills, knowledge, and behavior that students acquire throughout the program. It is required to compute the attainment levels for PSOs in addition to computing attainment of POs. Program outcomes and 'program specific outcomes' are attained through the attainment of COs. Direct attainment of PO's – The average of individual PO attainment values. Indirect attainment of POs and PSOs – Student exit surveys, Employer surveys, Alumni Surveys, etc. A distinct questionnaire was designed for this purpose and the average responses of the outgoing students for each PO are computed.

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

2.6.2 Pass percentage of Students during last five years

Response: 95.5

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

2021-22	2020-21	2019-20	2018-19	2017-18
177	337	327	156	0

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

2021-22	2020-21	2019-20	2018-19	2017-18
197	337	327	183	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.91

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 30.08

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

2021-22	2020-21	2019-20	2018-19	2017-18
3.825	26.25	0	0	0

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

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

Response:

JIT has established the knowledge generation, transfer ecosystem including an Incubation Centre through the various centers. To achieve the goal, to become as the entrepreneurship start up and ideation hub, RIT has signed the MOUs with various firms, to conduct various skill development programs in turn achieve the goal to make the students as entrepreneur. Through innovative ideas and suggestions for solving pressing issues, the academic and research capabilities of JIT continuously contribute to the Innovation Ecosystem and inspire students to become entrepreneurs.

Entrepreneurs introduce innovative technologies for starting a business opportunity to either work for themselves or they can help support and develop an entrepreneur's business.

Providing shared work space: We provide the shared workspace to our Incubates in the campus itself. Mentoring: Faculty member of JIT mentors closely monitors the product development of the incubate company. Incubation Space: We provide furnished air conditioned space to our Incubates.

The centre has rooms of three sizes. Besides this we also have our Seminar hall and Auditorium

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

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

Response: 66

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

2021-22	2020-21	2019-20	2018-19	2017-18
17	8	25	7	9

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

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

Response: 0.85

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	26	40	30	30

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 1.97

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

2021-22	2020-21	2019-20	2018-19	2017-18
60	242	02	03	00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

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

Response:

The institute promotes regular engagement of faculty and students with the neighborhood community for their holistic development and sustained community development through various activities. Every Year, programs are organized under which students and staff participate voluntarily in community-based activities with the neighborhood. Various awareness programs through workshops, rallies, and roadshows with themes like cleanliness, green environment & tree plantation, gender sensitization, traffic rule awareness, demonetization, digital payment, blue whale games, and inculcating the Entrepreneur skills among the student's fraternity. Motivational talks on Women Empowerment, Self-defense, Multi-Specialty health camp and created awareness on Science, Health & Education organized by Women in Engineering (WIE) affinity group and through SHE events. Swachh Bharat Abhiyan is the most significant cleanliness campaign activity by students to maintain cleanliness in and around the Campus, create awareness about the role of a clean environment in human health. National festivals, Yoga day, Cancer Awareness day, first aid day, National Education Day, Mayday, Engineers Day were celebrated to promote human values, integration, and communal harmony among students. Blood Donation camps have been organized. Awareness of Legal Rights conducted to benefit the neighborhood community. Health Checkup camps, Eye Camps, Dental Camps & awareness on Dengue are organized every year. Role of Youth in Agriculture. International Yoga Day. Exclusive Covid19 awareness programs are organized in the neighborhood community. No bin day followed every week to create awareness on food value. The training program is conducted for rural students. Visit Mentally/visually challenged and old-age home to sensitize the youth on being compassionate and responsible towards the care for people. Gaja cyclone relief contribution of Rs.22,000 distributed for cyclone victims. YRC amount of Rs. 22,750 for "One Day Study camp for YRC Volunteers" Received BEST NSS UNIT award and BEST NSS VOLUNTEER from Anna

university. Received OUTSTANDING PERFORMER AWARD and CERTIFICATE OF EXCELLENCE from NCC Directorate. Impact & Sensitization Exposure to extension and outreach activities sensitize the students towards social issues and to legal and social remedies like domestic violence, child abuse, beggars, female child, victims of violence, old and infirm, refugees and displaced persons, etc. The activities conducted

lead imbibing the values of social responsibility such as: 1. To help people in need and distress 2. To understand and share the need of underprivileged children. 3. To promote cleanliness in all span of life and common places. 4. To acquire social values and a deep interest in environmental-related issues. Learning outcomes of the activity: 1. Enlarge the knowledge of societal issues and problems and search for a solution by getting involved with their lives. 2. Build up the relation and tie-up with organizations/NGOs to carry forward humanitarian work in the future. 3. Develop a passion and brotherhood towards the community, affected people/animals, and destitute. 4. Develop skills and aptitude for problem-solving. 5. The skills developed include social, communication, management, leadership, analytic and perceptual skills, etc.

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

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Jeppiaar Institute promotes a versatile ecosystem and encourages it's students and staff to volunteer and initiate various philanthropic activities. Among these initiatives it inculcates respect and responsibility towards those in their twilight years.

The IEEE Student branch of Women in Engineering of Jeppiaar Institute of Technology organized a virtual event to support this cause, aptly titled "HER- An awareness program for Old Age People" in association with Government Middle School, Kadamankuzhi, Karungal Range, Kanyakumari District. The Little Sisters of the Poor recognized the heartfelt efforts of the students and staff who volunteered to lend a hand to those under it's care in the form of their time and finances.

The Youth Commission of the Diocese of Chengalpat also honored the Institute for it's part in the empowerment of youth in the Kancheepuram and Chengalpat Districts.

The Institute took this a step further and was applauded in it's efforts in doing so by L&T Valves Limited. The institute takes it's role in imbuing the importance of nurturing nature in it's students and faculty very seriously.

The Indian Red Cross Society acknowledged the Institute's efforts in collecting 152 units of blood through a Blood Donation Camp. Ever cognizant of its moral and societal duties Jeppiaar Institute of Technology was appreciated personally by the Inspector of Kanchipuram District Police Department for taking the initiative and proposing a report on "the Prevention of Road Accidents in Chennai Bangalore Highway under Sunguvarchatram Jurisdiction".

The students of Jeppiaar Institute of Technology have reaped in numerous laurels among which are securing a place in the finals of the Students Activities and WIE Coordination Contest in the student branch category during the IEEE Region 10 Students Young Professionals Women in Engineering Life Members (SYWL) Virtual Congress held in 2020.

Further proof of the institutes numerous accolades manifested in the form of securing the 97th spot among the top 125 private engineering institutes in 2021. Jeppiaar Institute of Technology also secured an Institution's Innovation Council (IIC) ranking of 3.5 stars in 2021 and was categorized as a "BAND-A" institution in the category of "Private or Self-Financed College/Institutes" in the Atal Ranking of Institutions on Innovation Achievement (ARIIA) in 2020.

In a ranking list put forward by India Today, the Institute once again proved its excellence by claiming the 40th Rank in Tamil Nadu and the 13th Rank in Chennai for the Top Private Universities and Engineering Colleges in India in 2020 - 2021. In 2018 - 2019 it was awarded the 200th Position overall, the 41th position in Tamil Nadu and 14th in Chennai by India Today among the Best Colleges of India.

Jeppiaar Institute of Technology's commitment towards equipping its students by providing them with knowledge in cutting edge technology was heartily acknowledged by Tempel Precision Metal Products India Pvt. Ltd.

The institute encourages innovativeness as can be seen by its participation in the 4th Innovative QC Competition held by the Association for Quality Development (AfQD).

File Description	Document
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Provide Link for Additional information	View Document

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

Response: 60

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

2021-22	2020-21	2019-20	2018-19	2017-18
16	09	14	11	10

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

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

Response: 75

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

1. Academic activities

Jeppiaar Institute of Technology provides state-of-the-art infrastructure to the students to become a globally recognized centre of excellence for science, technology & engineering education, committed to quality teaching, learning and research. The Institution has a sprawling campus spread over 12.52 acres with modern buildings, technology-enabled classrooms, and excellent infrastructure to create a learner-centric environment. The College has a positive, progressive approach to creating and enhancing the infrastructure, which facilitates the effective teaching-learning process. The facilities of the College, like classrooms, tutorial rooms, ICT-enabled smart classrooms, laboratories, library, digital library, and seminar halls, are also constantly upgraded to meet the requirements.

1. **Learning Resources** include resources and infrastructure required for the library, laboratories, computing centre, Wi-Fi Zones, ICT-enabled Smart classroom, technical and non-technical events, placement activities, and conferences.
2. **Plagiarism Checker X 2019 Professional Software** to uplift the original research works.
3. **Support facilities** include hostels, non-resident student centers, a cafeteria, seminar halls, organic farms, ATM, CCTV Surveillance, and sports grounds.
4. **Utilities** include safe drinking water, restrooms, and power generators.

2. Co-curricular activities

The College promotes co-curricular activities to expand student's knowledge beyond the curriculum and provide industrial exposure. Our College has 3 auditoriums and 1 seminar hall for conducting various co-curricular activities. The College organizes seminars, invited talks, workshops, symposiums, hackathons, project-based technical events, and Faculty Development Programs (FDP) related to emerging technologies to keep everyone updated in their respective fields.

3. Laboratories

The laboratories are equipped with state-of-the-art equipment to conduct the experiments per the Anna University (AU) curriculum. The programming laboratories are equipped with licensed software as per AU regulations. In addition to the regular curriculum, students are encouraged to pursue their project work and conduct many case studies in emerging research areas.

4. Centres of Excellence (CoE)

The College has established **Centres of Excellence**, namely Robotics Process Automation (RPA), Cyber Security, Nano Satellite Research, Auriseg, Troondx, Software, Teaching, Infosys campus connect, Intellect design, etc.,

5. Sports Facilities

The College has excellent facilities for both outdoor and indoor games. Outdoor courts/stadiums are available for Basketball, Badminton, Cricket, Football, Kabaddi, Throw-ball, Kho-Kho, and Volleyball. Indoor facilities are available for chess, carom board, table tennis, Basketball, and Badminton. College teams regularly participate in these sports and have won numerous intercollegiate events. Interdepartmental competitions, as well as athletics, provide opportunities for students to take part in outdoor activities. A fully equipped gym with cardiac and weight training equipment is available on campus.

6. Cultural Activities

Jeppiaar Institute of Technology strongly believes in the holistic development of students. The College encourages many extra-curricular activities. A Talent Hunt in the first semester identifies the talents of the new students in varied fields ranging from photography to dramatics. Various Inter College and Intra-departmental competitions are held to provide a creative outlet for students.

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

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 31.67

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

2021-22	2020-21	2019-20	2018-19	2017-18
131.28	10.34	512.93	399.49	507.47

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The institute has well furnished, spacious central library and a digital library with a flooring area of 849.3 square meters with a massive collection of books, national and international journals, periodicals, and magazines in Science and Humanities, Engineering and Technology, and Management studies. In addition, the library with printed books, e-books to back volumes, and CDs. The Central Library subscribes to national and international journals in print and e-Journals.

The library of the College is automated through AutoLib Software. **AutoLib** – is a popular and advanced integrated Library automation management software designed and developed by a team of Library & Information Science specialists, database designers, software developers, and network specialists.

- **Name of ILMS software:** AutoLib Software
- **Nature of automation (fully or partially):** Fully Automation
- **Version:** 5.1 (Java Version)
- **Year of Automation:** 2014

1. Database Management – Cataloging

This module allows the creation, update/editing, and maintain the following databases.

- Books, Book- Bank, Thesis, Proceedings, Standards, Conference Proceedings- Reports, Patents, etc.
- Journal- Issues, Articles, Bound Volumes
- Non-book materials/ CD, Video/Audio tapes, Microfilm, Microfiche, Newspaper clippings
- Members, Departments, Courses, Groups
- E-Books - Digital Content
- Authority List - Authors, Publishers, Suppliers, Subjects, Keywords

2. Search (Online Public Access Catalogue)

This module is designed to search all the **above databases** using important fields and print the search results in any desired format/order. This module has the following:

- **Simple Search** - (for beginners)- to search the database using important fields such as

Accession Number, Call Number, Author, Title, Edition, Year, Publisher, Subject,

Keywords, Department, Availability, etc.

- **Advanced Query Builder** (for experienced users) – to search the database by selecting.

the desired **field(s)**, **criteria for search** (starting with, anywhere(like), truncation, word),

- **Boolean Operators** (AND, OR NOT) and **sorting order** from a list of fields and

printing in various formats

- **Restricted Search** – to search letter by letter.

3. Circulation Management - Transaction

This module is designed for all types of counter transactions (for all document types), such as:

- Issue/Renewal /Return/Recall
- Reservation / Reservation Cancel
- Reminders/Overdue receipt/No-due certificate
- Overdue reports (based on many criteria)
- Statistics/Reports for all counter transactions (daily/weekly/monthly/between specific dates)

4. Report Management

This module is designed to generate and print many reports such as: List of books by author, title, unique titles publisher, supplier, call number, subject, dept, accession number, date, book type, and list of journals/publishers/suppliers/members, etc. It also allows printing accession registers, catalogs, the amount spent by type of documents/depts/subjects, and bibliographic reports. All kinds of statistics/reports for the management can be generated for AICTE/NBA, UGC/NAAC.

5. System Administration

This module allows to:

- Create a new user log-in and password and grant rights to access various modules.
- Create group master – to set the due date, allowed cards for different documents for different groups of users globally.
- Set overdue charges at various stages/holidays.
- Maintain budget master.
- Back-up, export, and import of data.
- Update the database globally using various fields.
- Generate charts.

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

4.3 IT Infrastructure

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

Response:

In the entire campus, the LAN connects all the computers with a 155Mbps speed capacity leased line provided by BSNL Telecom.

- Wi-Fi connectivity is provided in the administrative and academic areas. Surplus Ethernet ports are delivered all over the campus for laptops/devices needing internet connectivity.
- Computer laboratories are equipped with state-of-the-art technology and are available to all the staff and students.
- SOPHOS Firewall-XG is provided to prevent unauthorized Internet users from/accessing private networks connected to the Internet, especially intranets.
- Licensed Antivirus is used to enable the security of computers. Our College has 524 computers and 7 servers, and all the departments have software packages per curriculum needs.
- The institute upgrades the software packages and purchases software currently used in the industry to make the students industry ready.
- A separate team with in-house staff takes care of the IT-related needs of the campus, such as hardware and networking.

Upgradations in IT Facilities are mentioned below,

Wi-Fi Facility: Carmel Infotech, Chennai.

Name of the Internet provider: BSNL Telecom, Chennai.

Available Bandwidth :155 Mbps

Wi-Fi Availability: Available in administrative and academic blocks

Internet access in labs, library, classrooms, and offices of all departments: 434 Nodes

Security arrangements: SOPHOS Firewall-XG and McAfee Antivirus

Server Details:**CONFIGURATION:**

Server Name	System configuration
JEPPIAAR INSTITUTE OF TECHNOLOGY / IBM Blade Center S	IBM Blade Center S Processor: (Intel Xenon X3430 @ 2.40 GHz/1066MHz) 300GB *9
Domain server – Windows server 12	450GB *3 300GB*2 SAS
JEPPIAAR INSTITUTE OF TECHNOLOGY / SERVER Rack Server	BRAND: (Intel Xenon CPU) Model: X3420 GPV Processor: (Intel Xenon X3430 @ 2.40 GHz)

JEPPIAAR INSTITUTE OF TECHNOLOGY / SERVER Auto Lib Server	Memory: RAM: (16GB / Hard disk: 2 TB) Intel i3 Processor, 500Gb Hard Disk 8Gb RAM
JEPPIAAR INSTITUTE OF TECHNOLOGY / SERVER CMS Server	Intel i3 Processor, 500Gb Hard Disk 8Gb RAM

CONFIGURATION:

Server Name	System configuration
JEPPIAAR INSTITUTE OF TECHNOLOGY / IBM Blade Centre S Domain server –Windows 2008 Server R2	BRAND: (IBM Series / Model X3400 – M3) Processor: (Intel Xenon E5620 @ 2.40 GHz) Memory: RAM: (336GB / Hard disk: 5TB GB)
JEPPIAAR INSTITUTE OF TECHNOLOGY / IBM Rack Server 3100 M4 16GB RAM (Linux Server)	BRAND: (Intel Xenon CPU) Model: 3100 M4 Processor: (Intel Xenon X3430 @ 2.40 GHz) Memory: RAM: (32GB / Hard disk: 3 TB)
IBM Tower Server 3100 M4	BRAND: (Intel Xenon CPU) Model: X3100 Processor: (Intel Xenon R @ 31.00 GHz) Memory: RAM: (8GB / Hard disk: 500GB)
Library Server	Brand: Lenovo Processor: Inter i3 Processor Memory 8GB 500GB HARD DISK
Tacitine Bandwidth Server	MODEL: Lenovo: INTEL I3 Processor MEMORY”4GB RAM 500GB HARD DISK
CMS SERVER	BRAD: LENOVO INTEL I3 Processor MEMORY 4GB RAM

500GB HARD DISK	
File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)	
Response: 2.2	
4.3.2.1 Number of computers available for students usage during the latest completed academic year:	
Response: 416	
File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)				
Response: 1.74				
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
23.93	6.00	4.87	15.93	34.85
File Description	Document			
Upload supporting document	View Document			
Institutional data in the prescribed format	View Document			

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 84.61

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
758	882	872	980	746

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

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

Response: E. None of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 11.86

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

2021-22	2020-21	2019-20	2018-19	2017-18
132	111	235	116	00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

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

Response: B. Any 3 of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

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

Response: 51.53

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

2021-22	2020-21	2019-20	2018-19	2017-18
117	141	165	115	0

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

2021-22	2020-21	2019-20	2018-19	2017-18
197	337	327	183	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 100

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
3	4	2	1	0

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

2021-22	2020-21	2019-20	2018-19	2017-18
3	4	2	1	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

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

Response: 18

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1	1	5	5	6

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 24.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
44	25	15	17	21

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

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

Response:

Alumni meet is an event celebrated in every institute so to give your alumni an opportunity to renew bonds with past classmates and cherish their relationship with faculties and staff members. The alumni association creates and keeps alumni interest in their Education guild and develops interest to contribute to their Alma matter. Alumni Meeting, a networking event conceived to exchange experiences and to share ideas with current students, faculties and staff.

The Name of the Association is “JIT-CONNECT ALUMNI ASSOCIATION” and the date of formation is on 18.06.2019.

The objectives of the JIT CONNECT Alumni Association is as follows:

- 1.The JIT CONNECT Alumni Association is an official unit of the Institute with the primary objective to strengthen alumni connections with their Alma Mater.
- 2.To promote the establishment of alumni chapters at different geographical locations having an adequate congregation with alumni.
- 3.To provide the biggest source for placement opportunities to students.
- 4.The senior successful alumni can be the most effective medium not just for the institute graduates but also with the younger alumni.
- 5.Alumni from the corporate world can potentially create a stronger network as well as trust on the institute and in turn, will assist younger alumni from the institute to access opportunities in improving their careers and professionalism.
- 6.The distinguish positioned alumni, who are currently positioned all over the globe helps to bring out the innovations and high- end engineering and technology makes out the college gratified.

With these objectives, we are sure that we can increase strong bonding among alumni and Institute. Many of our Alumni occupied prominent positions in different sectors like in Banking, Finance, IT, Teaching, Entrepreneur etc. Institute is having a track record of outstanding performances of its pass-outs in different spheres. Many of them are occupying key positions in many private and public sector undertakings in India and abroad and have brought laurels to the institute. Most of alumni always contributed their knowledge and helped to institute in different way:

Placements - The alumni network of a institute is one of the biggest sources for placement. Alumni always help to place their juniors at their respective organizations.

Mentorship - Our alumni always play an active role in voluntary programmes like mentoring students in their areas of expertise.

Career Guidance - alumni is a huge talent pool whose guidance can be beneficial to many students and other fellow-alumni in their respective areas of study.

Networking Platform - alumni network by itself is one of the best professional networking platforms available today in institute.

File Description	Document
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Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

VISION OF THE INSTITUTION

Jeppiaar Institute of Technology aspires to provide technical education in futuristic technologies with the perspective of industrial and social application for the betterment of humanity.

MISSION OF THE INSTITUTION

M1

To produce competent and disciplined high-quality professionals with the practical skills to excel as innovative professionals and entrepreneurs for the benefit of the society.

M2

To improve the quality of education through excellence in teaching and learning, research and innovation by promoting the principles of scientific analysis, and creative thinking.

M3

To provide excellent infrastructure, serene and stimulating environment that is most conducive for learning and research.

M4

To strive for productive partnership between the Industry and the Institute for research and innovation in the emerging fields and creating opportunities for employability.

M5

To serve the global community by instilling ethics, values and life skills among the students to enrich their lives.

Nature of Governance

The Governing Council (CGC) is an integral part which steers the institution towards academic excellence with a holistic approach. The governance of the Institution is reflective of an effective leadership in tune with the vision and mission statements. The established policies in the Institute ensure the integrity and effectiveness of the governance and administration. The Institute believes in shared leadership and Participative decision-making approach. This reflects the decentralization of its operations and delegation of the necessary authorities and responsibilities. Such delegations follow a systematised organisational structure with clearly laid down job responsibilities.

The committees are as follows.

- College Governing council
- Grievance Redressal cell
- Internal Compliance Committee
- Anti-Ragging Committee
- IQAC
- Exam cell,
- Counselling Cell,
- Training and Placement Cell
- Co-curricular and extra-curricular clubs
- R&D cell,
- Women Empowerment cell

Perspective Plans:

A 360 degree perspective plan has been developed by a IQAC which considers important factors i.e. structure, mechanisms and stake holders within the system. This statergic plan will be act as the guideline for the decentralized committees and those decentralized committees have to work towards the attainment of the laid out plan. The entire process is based on participative approach wherein the decentralized committees, faculty members, and other stakeholders are involved in the development of plans and its efficient execution. The summery is as follows

- 1.Enhance engagement with Society
- 2.Diverse Student learning environment
- 3.Enhance engagement with Industry

- 4.Improve internal support systems
- 5.Enhance alumni engagement
- 6.Develop a cleaner and greener campus
- 7.Enhance Research Culture
- 8.Internship
- 9.Placement

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

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

Institutional bodies

Various institutional bodies for efficient and effective functioning of the institutes are

College Governing council,

IQAC

Exam Cell

Technical Clubs

R&D Cell

Grievance Redressal cell,

Anti-Ragging Committee,

Counselling Cell,

Training and Placement Cell,

Alumni Cell,

Higher Studies and advisory bureau cell

Women Grievance cell.

Administrative setup

Various Policies are implemented such as HR policy, feedback policy, slow learners and advanced learners policy research Policy, IT policy, Maintenance policy, e-governance Policy, performance appraisal policy, green campus policy and code of ethics policy

Organizational chart and functioning of various administrative roles attached

Appointment and service rule

The rules and the welfare schemes are transparent and disseminated in institute website.

Deployment of institutional Strategic plan

The strategic plan deployed under 8 verticals as follows

S.No.	Strategic Plan	Sub Plans	
1	Enhance engagement with Society	NSS, NCC, YRC, EDC , Technical Clubs, Professional Students Chapter	
2	Diverse Student learning environment	ICT based TL, Value Added, MOOC Certification	
3	Enhance engagement with Industry	Guest Lectures, Internship, MOUs with NIT Industry Support, etc	
5	Enhance alumni engagement	Registered Alumni Association, Alumni Meet, Alumni Contributions, etc	
6	Develop a cleaner and greener campus	Solar, LED, All type of Waste Management, Green Landscaping campus	
7	Enhance Research Culture	R&D Policy, Paper in UGC and other SCI, Scopus Advanced Centres for Research / Future tech Labs.	
8	Academic Autonomy and Industry Oriented Curriculum	NAAC B++, NBA applied,	

One Activity Successfully Implemented Based On the Strategic Plan - Case study – **Internship - Industry Institute Interaction:**

Strategic Plan:

Undertaking MoU's with other research Institutes, Industries and corporates to work together in the future for the mutual benefit of students and staff to foster a collaborative framework to establish the academic research and projects. We encourage faculty and students participation in workshops, Seminars, FDPs, Conferences and short term training programs.

Objective:

To achieve 100% placements for eligible students.

Internship:

Students are encouraged to do internship with various companies and also with premier institutions like NIT and IITDM.

Deployment:

The students/faculty members use this opportunities and improve their skill set and become industry ready Engineers.

outcome:

It helps the students to get idea about how to prepare for placements and to enable them to be employable.

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

6.2.2 Implementation of e-governance in 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
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

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

Response:

The Institute conducts an internal financial audit on regular basis by the faculty team supported by the accounts department. The institute has a well-defined mechanism to inspect the usage of funds. The process of auditing starts with the budgetary preparation and there is a well-defined process for sanction of budget. A complete budget is prepared every year well before the academic year begins. The annual Budget for the respective department is prepared by the respective in-charges and submitted to the Principal. The Managing Director monitors and reviews the expenditures of the Institution. This procedure enables control over the expenses and increases operating efficiency. Further, the accounts department maintains the record of all the expenditures after the verification of vouchers and bills. External Audit Our Institution complies with the statutory auditing norms. A professional Chartered Accountant audits the income and expenditure statement at the end of every financial year. The Chartered Accountant prepares and submits the auditor's report for the financial year. The report exhibits that the statements are presented fairly in all material respects – that our Institution shows a true and fair view in the financial position, results of operations, and cash flows.

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

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

Response: 49.64

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
66	50	38	33	17

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 40.92

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

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	60	12	12

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

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

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

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

Response:

MOBILIZATION OF FUNDS FOR VARIOUS RESOURCES

- The institution mobilizes the funds through the student's fee such as Tuition fee, transport fee, Mess fee. Students are admitted as per regulations laid by Tamilnadu Government Higher Education.
- The fee amount is deposited in Public sector banks as short term deposits.
- Institute is getting Grants from various Bodies namely, IEEE, CSI, ISTE, SAE, NSS, NCC, YRC, etc, and for Project, Seminar/Conference, and Participation fee in various Conferences,Seminars,Workshops,FDP,Project Expo,Hackathons and other technical events organized by the Institution.

BUDGET PLANNING AND UTILIZATION

Institute plans towards efficient use of the budgeted fund for each academic year. According to the guidelines specified by the Management,GC,Planning and Monitoring Board, and Principal, the report of sanctioned budget and actual expenses are submitted.

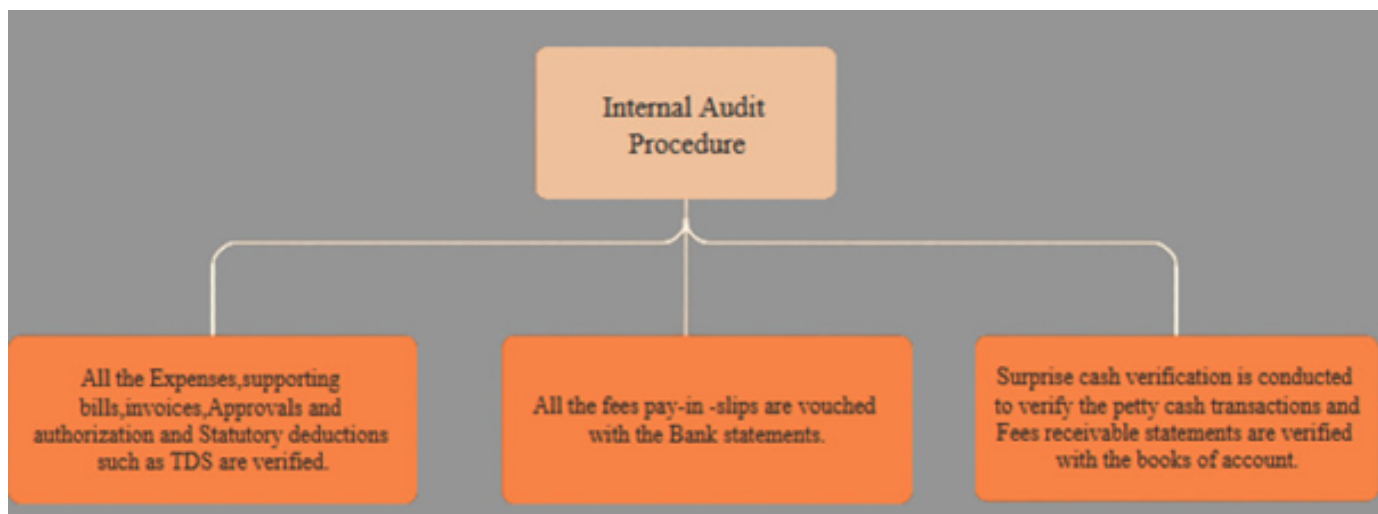
The fund is utilized for student activities such as symposiums,immersion programs, Personality Development Programmes,Scholarships,Higher Studies, Professional & Personality Development Society, etc. The fund is also utilized for Faculty Training programs, DAB Meetings, Workshops,Conference,Seminar,FDP,Value Added Courses,Guest Lecturers,Training and Placements,Industrial Visits,Trust Awards, Cash Awards for Rank Holders,Best Performer Awards,Achiever's Day,May Day,Teacher's Day and other celebrations. Apart from this the institution also provides financial assistance to students for participation at various national and state-level cultural and sports competitions.

The purchase of equipment, machines, and software is done by an efficient team,Whenever the requirement for the purchase of equipment arises,services and maintenance of equipment, CMS tool, the HoD gives a requisition to the Principal.After the Principal approval,it is verified and forwarded to the Managing Director for final approval.The approved purchase requirement is handed over to Purchase Committee.The Committee invites 3 different quotations and finalizes the vendor based on quality,service support, product specifications and price of the product and further negotiates.Finally,the Purchase Committee prepared the purchase order to purchase the equipment.

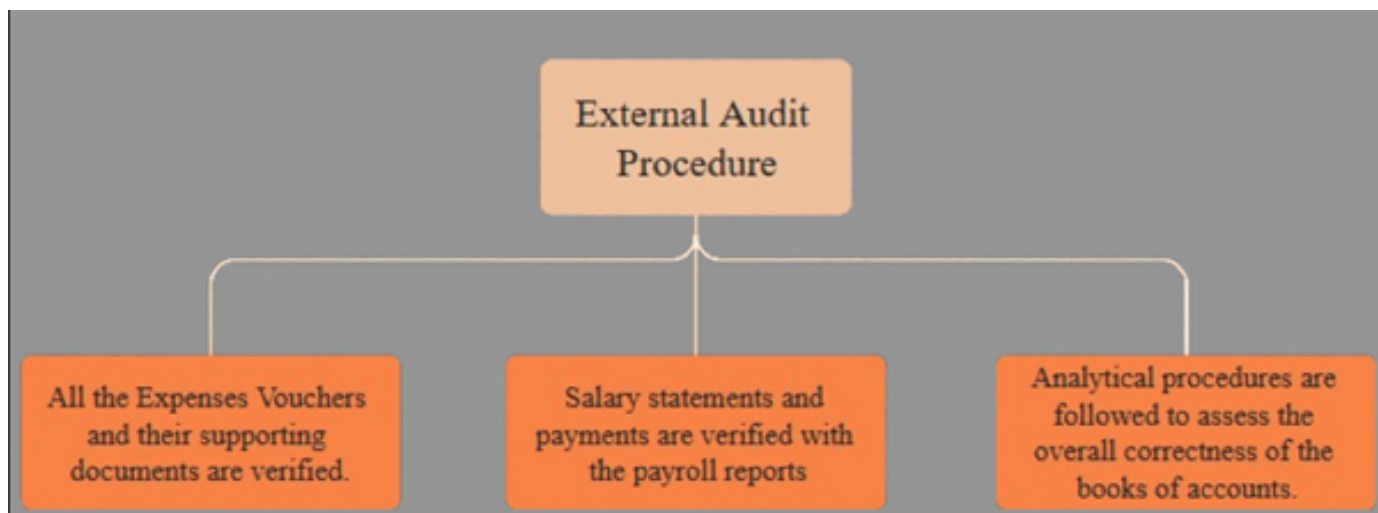
Further, the fund is used for the payment of salary towards teaching, non-teaching staff, and administrative staff. The management also supports the staff by providing registration fees for attending Training, Online Courses, Conferences, publications, Higher Educations, Workshops, FDP, other technical events and also provide financial supports to non-teaching faculty children's educations and their emergency needs. The fund is also used for the memberships, purchase of textbooks, reference books, online journals, magazines and also for preparing the copy of Sample Answer Scripts of University Toppers. Funds are also allocated for social service activities as a part of social responsibility. The mobilization of fund and utilization of the fund is reflected in the income and expenditure statement.

FINANCIAL AUDIT

Internal Audit is being conducted on a continuous basis by the Finance Team members every month



External Audit is regularly conducted on an annual basis by the statutory auditor.



Financial statements are audited accordingly.

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

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The College strives to fulfill the vision and mission objectives through periodic advisory from the management, Governing Council, Planning and Monitoring Board, and Internal Quality Assurance Cell (IQAC) of the college.

Internal Quality Assurance Cell frames and follows the quality assurance strategies and processes the recommendation of the governing council. The institute follows the Quality Management System and is monitored, inspected, and ensured through ISO (DNV-GL). Internal Quality Assurance Cell (IQAC) is constituted exclusively in November 2018 for continuing the quality assurance strategies and processes. Certified by ISO 9001:2015 in the academic year 2018 – 2019, post which a periodical internal audit is conducted within the departments to ensure the quality policy. A glimpse of IQAC institutionalizing the quality assurance

strategies: 1. After the students got admitted to our institution, Students Induction Programmes programs are organized to help them to bridge the curriculum gap, and understand the system of the institutions.

2. All the students are given a fortuitous to be a member of at least one Professional society and mandatorily to be a member under the Personality Development Programmes in their first year. Besides, they participate in the Design thinking club, Science Club, Creative English Club, Ramanujam Club of mathematics, Coding Club, Technical and Non-Technical Clubs, EDC and Placement Activities.

3. Skills and knowledge inculcated beyond curriculum education are nurturing the students into a wholesome professional and hence our students are encouraged to undergo Value Added Courses.

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

6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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 and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Following are the ways and means through which the institution shows gender sensitivity in providing facilities. Safety and Security A generator that serves the entire campus when the electric supply fails. Students are not allowed to meet any unauthorized person. The identity of the visitors is properly verified he/she meets his/her ward. Staff and students are requested to wear their identity cards to ease identification by security staff. A strong stand against drug and alcohol abuse, along with a zero-tolerance policy towards bullying. Common injuries and illnesses are handled with “Nurse in Home” and “Doctor on Call”. 24/7 Ambulance facility with the driver. CCTV enabled campus ensuring safety. Drop till doorstep at the unexpected situation like sudden illness or practice/ coaching classes Separate hostels with strict security for girls. Creation of a better environment in college, where students can approach teachers for both educational and personal guidance.

Knowledge Enhancement base for both teachers and students alike, due to effective two-way communication. Awareness and support to students for GATE, GRE, CAT, etc, and other Govt. & PSUs examinations. The motivation for higher studies and entrepreneurship. Advice and support for improvement in academic performance. Special counseling sessions for girls as and when required. Ongoing process: The counselor takes attendance daily during the first five minutes. The absentee information will be posted to the head of the department as well as to the parents every day. Each Mentor maintains the student’s information. Regular meetings are held between mentor and mentee. Counsellor Book that has both personal and academic data. Students can approach the mentor for both academic & personal problems. Personalized professional /career advice is given to the mentee. 1. Common Room Common rooms, (girls waiting rooms) are available in the Main Block of the Institution for students to rest in case of any illness, which are equipped with tables, chairs, beds with linen, drinking water coolers, and washrooms, exclusively for girl students and women employees. A Medical facility with a certified “Nurse in Home” is available on the campus. Others Women enrolment and active participation in professional and developing societies. Active Women In Engineering (WIE) professional society. The graceful and energetic in the participation of Cultural and Sports Activities. Visit Mentally/visually challenged and old-age home to sensitize the youth on being compassionate and responsible towards the care for people and in society. Women entrepreneurship an important untapped source of economic growth, with basic qualities required to be an entrepreneur can be molded to be a successful entrepreneur through systematic training and motivation. University ranks under Anna University is grabbed by many girl students. Cheerful participation in an award-winning team of Smart India Hackathon-2020 One of the girls from the basketball team was selected in a national training camp for basketball. 90 days Maternity leave with full pay. Conduction of literacy program for women workers of the institution Women in Administrative Positions (Leadership):

Principal

HOD-CSE HOD-IT

HOD-ECE	
HOD-EEE	
IIC- Co-coordinator	
File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

<p>7.1.2 The Institution has facilities and initiatives for</p> <ol style="list-style-type: none"> 1. Alternate sources of energy and energy conservation measures 2. Management of the various types of degradable and nondegradable waste 3. Water conservation 4. Green campus initiatives 5. Disabled-friendly, barrier free environment <p>Response: A. 4 or All of the above</p>	
File Description	Document
Upload supporting document	View Document

<p>7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following</p> <ol style="list-style-type: none"> 1. Green audit / Environment audit 2. Energy audit 3. Clean and green campus initiatives 4. Beyond the campus environmental promotion activities <p>Response: A. All of the above</p>	
File Description	Document
Upload supporting document	View Document

<p>7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)</p> <p>Response:</p>	
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We believe in unity in diversity that's why our students respect the different religion, language and culture. We feel the college is our second home and all faculties like a family member. We greet and wish each other at different festivals and invite them to have a feast to get introduced with one's culture to have amicable relations and to maintain the religious, social and communal harmony.

Similarly our students also celebrate the different festivals with joy and enthusiasm which help them to implant the social and religious harmony. The institution selects students and trains the boys and girls in sports. Students are given free sports coaching for representing different zonal, district level competitions. The institution also serves many orphanages, helping through food, cash, and education for higher education. Students are also given various scholarships and free education of poor Background. The Institution paves the way to many dimensions of learning through the systematic organization of scholarship for abroad, GATE, higher education and other Competitive Examination. Some of the services are done for faculty, students, and others such as health camp, blood donation camp, etc.

Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socio economic and other diversities. This also creates the inclusive environment in the college and society.

The vision of the institute is **“Jeppiaar Institute of Technology aspires to provide technical education in futuristic technologies with the perspective of innovative, industrial and social application for the betterment of humanity”** These elements are inculcated in the value system of the college community.

The institute hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens.

The personality development of the citizen in the aspects intellectual, mental, physical, and spiritual is a rich heritage of our composite culture and is a panacea for all social ills. As an initiative of this, the institute conducts yoga, dance, and music classes.

The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules.

The college curriculum is framed with mandatory courses like Professional ethics and human values, Constitution of India, Essence of Indian Traditional Knowledge, three weeks Orientation Program as a small step to inculcate constitutional obligations among the students.

Guest lectures are arranged by eminent personalities to deliver lectures on ethics, values, duties, and responsibilities and on saving environment.

Ethical Values, rights, duties and responsibilities of citizens are some of the topics that are enlisted in Elocution, Debates or in Communication lab activities.

NSS and NCC activities of our institution has the affinity for Philanthropic initiatives which include donation of time or resources to government, charities and organizations at local, national levels to help victims during natural disasters.

The Institute conducted awareness programs and rallies on ban on plastics, cleanliness, Swachh Bharat etc.

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

7.2 Best Practices

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

Response:

Best Practice 1

Title: **Nano Satellite to ORBIT/ Nano Satellite Mission**

Objective:

Promote interdisciplinary Space Engineering for under graduation level in collaboration with national, international agencies and organizations such as ISRO, UNISEC- India, CSPD- Serbia, Isreal, etc.

Provide hands-on experience on CANSATs as a preliminary process to develop Nano Satellites for research and educational purpose.

To design UNITYSat (JIT SAT, GHRCE SAT & SRI SHAKTHI SAT) in collaboration with three institutions to demonstrate IOT based inter-satellite communication over a mesh network in Lower Earth Orbit.

International collaboration with the Israel Space Agency to launch 75 nanosatellites in commemorating the 75th Independence of India in 2022.

To involve the students through train the trainer concept in various tech talks, hands-on training, industry visit, online training, Rocketry competitions, Satellite Tracking events, etc

Context:

Financial challenges to build CANSAT & nano Satellite as an academic Institution. Organizing multidisciplinary students to work together under the practice due to lack of interdisciplinary knowledge of satellite communication. National & international collaboration with related Agencies and institutions. Participation in international competitions & trainings. Purchase of equipment's from foreign vendors and getting clearance for the same. GST exemption certification under affiliating University.

Evidence of Success:

Developed a CANSAT for short range communication using LORA and participated in the International CANSAT Rocketry Competition in Serbia and won Jury award on October 2019.

As an outcome, Students designed and launched 5 CANSATs in the august presence of Dr.Myilswamy Annadurai, Chairman of National Design and Research Forum (NDRF) and Vice President, TNSCST at college premises and analyzed the environmental parameters.

Launched UnitySat-JIT Satellite in association with ISRO on February 2021 through PSLV C-51.

Established a well-equipped **Dr.Kalpana Chawla Nano Satellite Research Lab with Ground Station and Clean room facilities** of 5000 sq.ft.area in our college premises.

Problems Encountered and Resource Required

Space grade materials and clean room facilities are compulsory to build the student nano satellite. Establishment of ground station and research laboratory has been delayed due to pandemic. Another major concern for developing a nano satellite is the deployment of Antenna after satellite separation from the launch vehicle and frequency allocation which was overcome by indigenously developed cubesat deployer. Time constraint for the satellite development and integration process. Real time testing environment support required from approved vendors.

Best Practice 2

Title of practice: **Design Thinking Club -Out of the box**

The **objective of the Practice:**

To make the young generation industry ready and a problem solver, by updating the existing methodology of teaching in an entirely different way. To give a wholesome new experience by providing activity-based classes and assignments for students. By this method, students can solve real-world problems in an effective and fun way. According to today's world scenario, though the technology is upgrading, humans are also upgrading.

The Context:

Design Thinking is a skill which is to be developed by the students to become a problem solver. It is not a part of the curriculum. So, implementing this club despite all other curriculums was a challenging task. No. of days for this course, topics to be covered, identifying the interested students and other documentations are to be done in such a manner that the scheduled days, of course, should not clash with other activities.

Evidence of Success:

After implementing Design Thinking Club in the campus, there was a dramatical change in behavior of students which helps them to succeed in any kind of industries they work. Students after completing the Design Thinking course they will become 'Design Thinker'. So, our design thinkers organized many events, mega events in the campus. The first batch of students who were trainees of DTC have now become Trainers of DTC for the next batch of students. They all succeed in all activities in the campus with help of design thinking tools. They also conducted various immersion programs.

Problems Encountered and Resource Required: The core problem while implementing the club is time. Because students have to focus in many areas to shine in their fields.

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

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

Response:

JIT GROUND STATION

The Ground Station in JIT campus is named after Dr.KalpanaChawla, the first Indian origin woman went to space through a NASA Space Shuttle. Ground Station at JIT is equipped to receive and analyze data received from the Nano satellites which will be useful in space studies for both college and school students beyond their curriculum. The ground station lab has a well equipped set up with UHF-VHF antenna system, Clean Room, Antenna Rotator, Ground station, SDR, and software to track the satellites.

Indian space research organisation (ISRO) Chairman Dr.K.Sivan virtually inaugurated the Dr.KalpanaChawla Nano Satellite research lab, JIT- SAT Ground Station on January 28th 2021 at Jeppiaar Institute of Technology. Dr.N.Marie Wilson, Managing Director, Dr K. Gopalakrishnan, UNITYsat consortium co-ordinator and Dr.L.M.Merlin Livingston, Principal graced the occasion with their esteemed presence.

JIT Nano satellite Research team have trained the students during **3.5.2021 to 28.5.2021** through virtual mode (Phase I). Students were given with 30 hours online training, which includes Basic Electronics, ON Board computer (OBC), EPS(Electrical Power systems), Communication System, Navigation and payload, PCB Designing Using Autodesk EAGLE, 3D Designing Using Autodesk Fusion 360, Antenna Design Using CST, HAM Radio Basic Introduction, Programming OBC.

Thr Phase II training on CANSAT to the students was held from **18.10.2021 to 23.10.2021** through offline mode at Dr.Kalpana Chawla Nano satellite Research Lab.

Students were given with the handson training on **Autodesk Eagle, Autodesk Fusion & 3D Printing, Soldering the electronic components in the PCB boards.** Each team worked with their own components and assembled their CANSATs. Finally they tested the designed CANSAT with program evaluation. All the designed CANSAT's were worked well. The CANSATs are designed to monitor and analyze the

atmospheric parameters such as,

- Temperature
- Humidity
- Pressure
- Altitude
- Level of Methane, CNG Gas
- Level of Carbon Monoxide, flammable gasses
- Air Quality
- 3 axis gyroscope values

The designed CANSAT's were launched and tested on DEC22, 2021 in the august presence of honorable chief guest **Dr.Mylswamy Annadurai**, Vice President of Tamil Nadu State Council for Science and Technology(TNSCST), **Dr.K.Gopalakrishnan**, Secretary General of University Space Engineering Consortium-India along with our beloved director **Dr.N.Marie Willson** and our respected principal **Dr.L.M.Merlin Livingston**.

During the Lockdown the team organised Space Quiz and Satellite Craft Making contest through Online mode. The participants were invited to the exhibition held on the same day. School students from various Schools have participated and exhibited their talents to the Chief guest. Dr.Mylswamy Annadurai visited the exhibition and appreciated the school students. He also visited Dr.Kalpana Chawla Nano satellite research Center and JIT Ground station. The satellite team presented the designed CANSAT's features and objectives. He also gave many insights to improvise the design during next launch.

On the occasion of 75 years of independence, India is going to launch 75 satellites into space made by Indian students in schools and colleges. To strengthen science-based approach, India is promoting experience-based learning through this mission. JIT is also one of the college participating in the Mission and we signed the MOU with the Consortium on the same day.

On the college ground, the **5 CANSAT** designed by the student team were launched using **drone**. The Cansat was inserted into the drone and it flied up to a distance of **150-200m**. It collected the data and transferred the data through RF Communication to the Ground station.

The collected data includes, Temperature, Humidity, Pressure, Altitude, Level of Methane, CNG Gas, Level of Carbon Monoxide, Level of Carbon Monoxide, flammable gasses, Air Quality, 3 axis gyroscope values and are displayed successfully in the ground station connected display to the chief guest. The guests appreciated the work done by the student team.

Team of 3 students and a Mentor participated in World CANSAT Rocketry Competition held at Serbia during September 25-28, 2022. The team was fully sponsored by our institution.

Students designed a CANSAT of weight about 140g satisfying the mission objectives at our nano satellite research Lab and did the trail test. During the competition, Rocket was launched successfully and cansat deployed and landed successfully with the help of parachutes. The data was collected accurately and send to the ground station and displayed to judges. The team received special Global JURY Award.

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

5. CONCLUSION

Additional Information :

- Received the IEEE **HAC/SIGHT** COVID special fund award of \$500 towards the “Mechanical Ventilator” project for the benefit of humanity.
- “Tracking of vehicles in sales yard” & “Contract Employer Management System” a consultancy-based project dealt with ASHOK LEYLAND and implemented successfully through Excel – VBA Macros & Web Application, respectively.
- Internal projects contributed to the additional growth of the institute through research laboratories viz, Automation of Bell, E Certificate generation, Result Analysis, Question paper random picker.
- Collaborated with Rising Star Mobile India Pvt Ltd to train their employees on “Design Thinking Principles” to improve their employee experience management.
- Social cause project on "**Prevention of Road accident in Chennai Bangalore Highway under Sunguvarchathiram Jurisdiction**" submitted to Police Department. Installed a CCTV camera in Mannivakam, Sunguvarchatram to ensure public safety.
- **IAB Blind empowerment championship 2020 – Gold Zone**, Awarded in recognition of voluntary contribution for the empowerment of visual challenges.
- Students crisscrossed the pre-qualifier round in National ABU Robocon 2016 held at Shree Shiv Chhatrapati Sports Complex, Balewadi, Pune on the theme "CHAI-YO:
- Clean Energy Recharging the World”. Students grabbed the first prize in “**i INNOVATE**” problem-solving contest through the design thinking approach organized by the School of Design thinking (Intellect Design Arena).
- The students of Mechanical Engineering participated in the **SAE BAJA Championship** competition to have a look over the Roll cage that was fabricated. Students of III-year Mechanical Engineering participated in the **GO-KART** Competition and cleared 7 laps out of 8 laps successfully.
- Groomed students registered and certified for **Cambridge English, Business English Certificate Exam**.
- **International Women’s day (KUZHALI)** is celebrated which is a focal point on women empowerment, celebrating the social-economic, cultural, and political achievements of women for uplifting gender parity.
- The **cultural day** is celebrated with pomp and splendor where the talent is oozed out in the terms of rangoli, dance, skit, and music.
- **May Day** - A celebration of laborers and the working class through awards & rewards for non-teaching faculties.
- **NCC** - Cycle Rally for social awareness covering 1000 km.
- **Yoga** - To cultivate self-confidence and self-belief, helps to reduce stress and anxiety.

Concluding Remarks :

- The meritorious students and active members of Professional society are offered a **seven-day Global Immersion Program in Singapore**, focusing on vital global exposure and a significant platform to interact with international students and faculty members. It provides cross culture learning like adaptation to a new ambiance, mastering the challenges of learning in a new academic environment and its requirements through obtaining essential knowledge and skills.
- A well-equipped **Nano Satellite Research Lab** with Ground Station and Clean Room facilities are

established virtually in the august presence of Dr.K.Sivan, Chairman, ISRO to get real-time exposure on experience towards the making of the satellite, to track and communicate with our satellites, to research the data collected.

- **P.R.I.D.E** an innovative indoctrination kick-off to provide technical knowledge of students in the emerging areas of various engineering disciplines.
- The campus is divided into 7 zones with 14 faculties, trained and certified in 5S Cell (Sort, Set in Order, Shine, Standardize, Sustain) designed, optimizing productivity through maintaining an orderly workplace using visual cues to attain more consistent operational results.
- Secured Gold place in the **ABK – AOTS** Quality assurance programme in the case study for Innovative Teaching Learning Methodologies for the improvement of quality of education.
- Organized international conference on Recent Innovation in Science,Engineering and Technology(ICRASET)
- **Hackathon** – A technical coding fest to collaboratively code extremely over a short period, the idea is to provide each developer with the ability and freedom to work on their own.
- **Financial support** is provided for faculties and students to upgrade their knowledge and Academic Qualification.
- **Train the trainer model** is a training strategy widely used in the Institution where a subject expert trains other employees. This offers a distinctive advantage over the other training models

We hereby conclude the brief note about our Institution along with a criteria - wise summary implying strength,weakness,opportunities and challenges.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Answer before DVV Verification : 49 Answer After DVV Verification :44</p>																				
1.2.2	<p>Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years</p> <p>1.2.2.1. Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2021-22</th><th>2020-21</th><th>2019-20</th><th>2018-19</th><th>2017-18</th></tr></thead><tbody><tr><td>628</td><td>681</td><td>398</td><td>440</td><td>416</td></tr></tbody></table> <p>Answer After DVV Verification :</p> <table border="1"><thead><tr><th>2021-22</th><th>2020-21</th><th>2019-20</th><th>2018-19</th><th>2017-18</th></tr></thead><tbody><tr><td>682</td><td>681</td><td>398</td><td>440</td><td>416</td></tr></tbody></table> <p>Remark : As per clarification received from HEI, DVV input is recommended.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	628	681	398	440	416	2021-22	2020-21	2019-20	2018-19	2017-18	682	681	398	440	416
2021-22	2020-21	2019-20	2018-19	2017-18																	
628	681	398	440	416																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
682	681	398	440	416																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 470 Answer after DVV Verification: 541</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																				
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p>2.1.2.1. Number of actual students admitted from the reserved categories year - wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2021-22</th><th>2020-21</th><th>2019-20</th><th>2018-19</th><th>2017-18</th></tr></thead><tbody><tr><td>262</td><td>196</td><td>232</td><td>179</td><td>333</td></tr></tbody></table> <p>Answer After DVV Verification :</p>	2021-22	2020-21	2019-20	2018-19	2017-18	262	196	232	179	333										
2021-22	2020-21	2019-20	2018-19	2017-18																	
262	196	232	179	333																	

2021-22	2020-21	2019-20	2018-19	2017-18
34	45	46	49	67

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
306	357	357	357	357

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
180	210	210	210	210

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

2.4.1.1. Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	86	83	78

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	86	84	84

Remark : As per clarification received from HEI, DVV input is recommended.

2.6.2 Pass percentage of Students during last five years

2.6.2.1. Number of final year students who passed the university examination year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
177	337	319	156	0

Answer After DVV Verification :

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

177	337	327	156	0
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2.6.2.2. Number of final year students who appeared for the university examination year-wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
197	337	327	183	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
197	337	327	183	0

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
13	53	77	52	51

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
6	26	40	30	30

Remark : As per the revised data and clarification received from HEI, based on that calendar year would be considered so DVV input is recommended accordingly.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
134	227	41	03	02

Answer After DVV Verification :

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2021-22	2020-21	2019-20	2018-19	2017-18
60	242	02	03	00

Remark : As per the prescribed data template provided based on that calendar year is considered, so based on that DVV input is recommended.

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

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
149.98	76.98	232.51	258.07	241.33

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
23.93	6.00	4.87	15.93	34.85

Remark : As per clarification received from HEI , DVV input is recommended.

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: E. None of the above

Remark : As per clarification received from HEI , DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
567	734	839	816	495

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
132	111	235	116	00

Remark : As per clarification received from HEI , DVV input is recommended.

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. Any 3 of the above

Remark : As per the supporting documents, DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
117	141	165	115	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
117	141	165	115	0

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
198	337	327	183	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
197	337	327	183	0

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
6	1	9	10	11

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
1	1	5	5	6

Remark : A certificate provided for employment can not be considered. Team awards shall be considered as one, and only awards/medals for outstanding performance in sports/ cultural activities at University/state/national/international level to be considered, DVV input is recommended accordingly.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
112	109	60	12	12

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
80	84	60	12	12

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
32	25	12	10	8

Answer After DVV Verification :

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

39	39	39	39	39
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Remark : As per the revised data and clarification received from HEI, based on that no. of participated teachers could not be more than no. of full time teachers, so DVV input is recommended accordingly.

2.Extended Profile Deviations

Extended Profile Deviations

No Deviations
