SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

TECHNO INTERNATIONAL NEW TOWN

DG 1/1, ACTION AREA 1, NEW TOWN, KOLKATA - 700156
700156
https://tint.edu.in

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Techno International New Town (TINT) was established in 2005 under the aegis of Techno India Group affiliated to Maulana Abul Kalam Azad University of Technology (MAKAUT). Situated in the industrial township of New Town, the focus of TINT is to accelerate the knowledge transfer and enrich teaching-learning, research and social outreach. All programs are approved by AICTE. The institute ensures strict adherence to university regulations, curriculum, and syllabi, effectively implementing them.

TINT offers 12 undergraduate programs and 03 postgraduate programs The Times of India listed TINT amongst India's top 100 engineering colleges in 2023.

Besides maintaining an outstanding pass percentage in the semester examinations, about 30-50 students appear in different competitive exams like CAT, GATE, MAT etc. with a success rate more than 30%. TINT has conducted 85+ campus recruitment drives in a row over the last couple of years. Institute's alumni are spread across the globe in leading multinational companies like Microsoft, Capgemini, L&T, TCS, Accenture, Infosys, Amazon, Intel and so on. In 2022 and 2023 the students are studying Masters in reputed global universities like Central Florida University, ESIGELEC France, Syracuse University, New York, Lambton College of Applied Arts and Technology, Canada, University of Weimar, Germany.

TINT has hosted the Smart India Hackathon as the Nodal Centre in August 2022. Every year teams from the institute participate in SIH and other project competitions in pan India locations and win laurels for the college. TINT has projects funded by state and central governments. Students and Faculty engage in research and innovation through IIC, YUKTI, KAPILA. A faculty has secured a place in 2% most distinguished and influential scientists globally according to ranking database released by Stanford University, USA.

TINT believes in diversity and inclusion. Sensitivity towards important issues like Environment Sustainability, Values and Ethics is inculcated through all the learning approaches.

Vision

To achieve excellence in transformative education inculcating research, innovation, and entrepreneurship skills that will create good leaders and innovators for sustainable growth of technology, economy, and society.

Mission

1. To create a holistic ambience where state-of-the-art research, new ideas, innovation, and leadership are encouraged.
2. To develop new knowledge and foster talent for identifying and addressing the problems faced by the industry, society, and the nation.
3. To facilitate innovation and entrepreneurship for creation and enhancement of employability with the skills imparted and the knowledge generated.
4. To encourage collaborative and multi-disciplinary research in partnership with the industry and other

academic institutions with the aim of instilling an urge for lifelong learning in the students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- **Techno international new town (TINT) has a high rate of faculty retention, leading to productive research collaboration, fostering willingness to believe in the decision-making process, reducing costs and enhancing efficiency.**

- **TINT promotes holistic and inclusive education, taking utmost care to standardize and bridge the gulf between weak learners and advanced learners, and cognitive, physical, social, and emotional well-being of the students through various extra-curricular activities, social outreach programmes and sports round the year.**

- **TINT has established well prepared pipeline for innovation-research ecosystem which leads to the attraction of a good amount of Govt. project fund within the institute and as a result the number of research publications is raising in every year.**

- **TINT nurtures its incubation council in a very dynamic way and as a result a good number of entrepreneurs has joined as incubatee to the TINT Business Incubation Centre from outside the institute.**

- **TINT maintains her responsibilities towards the sustainability of green environment within the neighbourhood areas the regular planation activities, establishing plastic free zone and water recharge pit etc.**

Institutional Weakness

- **Information regarding off-campus recruitment and higher studies pursuits by students is not readily available and has not been systematically communicated to the Institution /concerned Departments during the past years.**

- **There is significant want of establishing a well-connected alumni network that will contribute towards the welfare of the institution and support the present students with their resources.**

- **Possibilities of fetching grants and aids from external governmental bodies as well as non-governmental agencies for supporting research needs to be explored to a far greater extent than is being done now.**

Institutional Opportunity

- **The most distinctive feature of TINT is Innovation and Entrepreneurship, where students and**

faculty members are encouraged to take inventions to marketplace by translating scientific knowledge into products, services and offerings for economic growth and social development. During the last 5 years, there are as many as 17 students who have turned into successful entrepreneurs after graduating from TINT. In addition, 5 start-up ventures, offering innovative technical solutions to societal problems, have been established by students and faculties. The S. N. Bose Centre for Pre-Incubation and Business Incubation Centre at TINT aim to support ambitious and innovative entrepreneurs by enabling them to transform their ideas into a minimum viable product.

- **Internal Quality Assurance Cell (IQAC) of TINT, through the systematic implementation of Institution's Innovation Council (TINT-IIC), fosters the culture of innovation and entrepreneurship among both students and faculty members. By officially joining the National Innovation and Start-up Policy (NISP) 2019, the college is a part of the larger network of institutions, and under the flagship of IIC, several new cells such as BIC, KAPILA, IPR, Yukti, Institutional Research and Developmental Cell have fostered as per the guidelines of NEP 2020. This ecosystem of research and innovation encourages, inspires and nurtures young students by exposing them to new ideas and processes resulting in innovative activities during their formative years.**

Institutional Challenge

- **From the perspective of current scenario TINT is struggling for the admission in some core engineering department like CE, ME, AEIE etc.**

- **As far as information is available, a relatively low percentage of students pursue higher studies, as compared to those who settle for jobs, after graduating from TINT. It is a challenge to orient more students towards research and postgraduate studies, to contribute to the research ecosystem.**

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Effective curriculum delivery is ensured through systematic, strategic and transparent mechanism of outcome-based teaching-learning process in accordance with the curriculum recommended by affiliating University Maulana Abul Kalam Azad University of Technology (MAKAUT). A strict adherence to Academic Calendar is followed in the preparation of time-table, Course Files and all other aspects of academics. The institute has LCD projectors, LMS system and other ICT tools to ensure effective and innovative teaching-learning.

However, it is pertinent to mention that the institute is supposed to teach the curricula designed by the affiliating university. To integrate important issues like Values and Ethics, Environment, and Sustainability, the college undertakes additional subjects in the curriculum. Some of these courses foster general competencies viz. environment sensitization, human and social values etc. while others hone the expertise required to conform to the changing demands of the industry. More than 25 value added courses have been implemented

during the last five academic years to bring about all-round progress of the students.

The students' academic progress is continuously monitored through a comprehensive internal evaluation strategy governed by IQAC and HOI, including technical presentations, technical report writing, tests, seminars, and project work, all in compliance with the Institute Calendar (academic). HOI and IQAC of the Institute, through academic committee meetings, regularly monitors semester progress and offers necessary suggestions.

The inputs are received from the stakeholders regarding the aptness and relevance of the subject in reaching out to the society and environment, through the feedback mechanism. This mechanism analyses the effectiveness of the system and tries to incorporate required modification in the process.

Teaching-learning and Evaluation

The students from different geographical, socio-economic and cultural backgrounds are admitted to the programs through a systematic mechanism, complying with all the rules of the affiliating university.

A blend of conventional teaching methods and modern ways of teaching like Participative, Experiential and Collaborative learning methods facilitate effective learning. The Course Files along with lecture plans and execution reports further help to maintain a robust teaching-learning environment. Formative and Summative feedbacks are collected to assess that teaching is learner-centric. A well-defined mechanism to identify the weak learners and the bright students exists. Teachers assess the academic proficiency of students through continuous assessments and final end semester examination. Needs of weak learners are particularly attended in the remedial classes. The college has a robust mentoring system and the mental wellbeing of students are also nurtured by a professional counsellor. ICT enabled teaching makes learning more enterprising, innovative and individual centric. Learning Management System, MOOCS, MOODLE, NPTEL and other e-resources are added in the teaching process.

The College follows the system of assessment recommended by Maulana Abul Kalam Azad University of Technology (MAKAUT). In a semester, four Continuous Assessments (CA) are organized as per the directives and the time slots stipulated by MAKAUT at the beginning of every Semester. The time slots are published in the university website and shown in the institute Notice Board. The Continuous Internal Evaluation(CIE) ensures that the attainment of COs is tested and the learning can be measured. The internal examination grievances process is in place with full clarity. An Examination Grievance Committee to address matters related to both university and internal examinations exists in the college. Any grievance from the students regarding marks obtained in university examination, review or scrutiny of answer scripts (PPR/PPS) can be opted according to the notification issued by MAKAUT. The college facilitates all such measures for its students.

Research, Innovations and Extension

TINT cultivates an innovative ecosystem promoting research and entrepreneurship. Collaboration among the Institutions Innovation Council, Incubation Centre, Research & Development Cell, Intellectual Property Rights

Cell, and the Knowledge System Cell - Hridmajhare (the Club of Performing Arts) fosters a sustainable environment. The Institution's Innovation Council (IIC) spearheads events and participates actively. Through structured incubation, including mentorship, networking, and training, the center empowers student innovation, nurturing an ambience of entrepreneurship.

The Institution fosters faculty-student involvement in patent filing via its Intellectual Property Rights (IPR) Cell. Through workshops, resources, and expert guidance, the institute equips them with a thorough understanding of IPR and the patenting process. For the academic growth of the faculty the available facilities for research are used. There are 240 journal publications and more than 177 conference publications during the last five years. The Research Cell at TINT plays a central role in nurturing entrepreneurial talents, fostering start-ups, and cultivating in-house product designs. It also oversees mentorship programs aimed at engaging students in initiatives like the Smart India Hackathons. TINT ensures a collaborative environment, encouraging faculty and students to engage in diverse projects funded by entities like State DST, Central DST, Pollution Control Board, and SERB-DST.

The Knowledge System Cell - Hridmajhare (the Club of Performing Arts) at TINT orchestrates festive and traditional celebrations, emphasizing Indian heritage and culture. Programs featuring Sustainable Development, Martial Arts, Yoga, and traditional dances showcase the fusion of modern advancements with India's rich cultural tapestry. TINT fosters awareness of the society among students through extension activities like the National Service Scheme (NSS), involving them in community services such as supporting adopted villages, contributing to relief funds, organizing value-driven activities, blood donation camps, and receiving appreciation certificates.

Sustainable practices are adopted at TINT through the Induction Programme (1st Year students), Celebration of Commemorative Days to create an awareness of social issues. All-round progress of the students is ensured through the extension activities of the college.

Infrastructure and Learning Resources

Techno International New Town (TINT) prioritizes the adequacy and optimal utilization of its physical facilities to support both academic and extracurricular activities. The institution continually develops its infrastructure to enhance the overall learning environment and effectively deliver educational programs.

TINT features comprehensive physical infrastructure, including well-ventilated and spacious classrooms equipped with ceiling-mounted LCD projectors for effective teaching. The campus also houses multiple laboratories with the latest technology and high-speed internet. Seminar halls are available for hosting workshops and conferences. For extracurricular activities, the college provides facilities for sports and cultural events, including a basketball court, equipment for various games, and dedicated spaces for cultural activities.

The Central Library at TINT is a cornerstone of academic support, offering a rich collection of 48,192 volumes and 3,784 titles, along with subscriptions to 34 national journals, 5 magazines, and 9 newspapers. Embracing digital advancements, the library has fully automated its services using ERP software (TCSiON) since 2022, facilitating efficient cataloguing, circulation, and remote access to e-resources (knimbus). Additionally, the library provides access to 55,450 e-books and 294 e-journals through platforms like ProQuest and Elsevier, ensuring that students and faculty have remote access to essential academic resources.

TINT continually updates its IT infrastructure to meet academic and administrative needs. The campus is equipped with 724 computers and peripherals, of which 585 are designated for student use, and the Campus is Wi-Fi enabled with sufficient infrastructure. Advanced ICT tools, including smart classrooms and LMS platforms like MS Teams and Moodle, enhance the teaching and learning experience. Regular updates and maintenance ensure that both hardware and software remain current and functional.

TINT ensures regular maintenance and periodic replenishment of its infrastructure through allocated budget provisions. The campus is equipped with essential facilities such as power backup, RO plants, fire extinguishers, CCTV surveillance, and solar panels. These measures are supported by a dedicated maintenance system that promotes the optimal use of the infrastructure, ensuring a conducive and sustainable learning environment.

Overall, TINT's infrastructure and learning resources are robust, well-maintained, and continually evolving to support the academic and extracurricular needs of its community.

Student Support and Progression

Techno International New Town (TINT) has a commitment towards providing comprehensive support to its students, fostering their holistic development, and ensuring successful entry to higher education and employment. This commitment is reflected through the various support mechanisms and activities, aligned with AICTE regulations and NEP 2020 requirements.

TINT has established several facilitation mechanisms, including Training & Placement Cell, Grievance Redressal Cell, Internal Complaints Committee, Anti-Ragging Committee, and Disciplinary Committee to support students effectively. TINT offers value-added courses and short courses on life skills in relevant areas to enhance students' competencies. TINT has a structured guidance and counselling system, providing personalized support and mentorship. A major chunk of students benefits from scholarships, free-ships, and other financial aids, ensuring that financial constraints do not hinder their educational journey.

The institution places a strong emphasis on the progression of students to higher studies and productive employment. TINT regularly identifies reasons for poor attainment and implements remedial measures to address these issues. Sustainable practices, such as career counselling and skill development programs, are in place to support students' progression. The institution boasts a commendable track record of students qualifying for examinations and competitions at the international, national and state levels, demonstrating its effectiveness in preparing students for future challenges.

TINT promotes inclusive practices, social justice, and value-based education. The institution provides necessary infrastructure and encourages student participation in a wide range of social, cultural, and leisure activities. More than 100 Programmes in the realms of culture, sports and social responsibilities have been organised during the past five years, which have witnessed participation of over 500 students on an average every year. These activities are designed to foster multifarious skills and competencies, fostering holistic development. Through these initiatives, TINT instills social responsibility and good citizenship among its students.

The alumni of TINT have substantial contribution to the institution's development, participate in academic matters and assist in mobilizing resources. The institution nurtures its alumni network, facilitating meaningful contributions that enhance TINT's educational environment and resource base.

In conclusion, TINT's comprehensive approach to student support and progression demonstrates its dedication to student success and institutional excellence.

Governance, Leadership and Management

Techno International New Town (TINT) demonstrates effective governance, leadership, and management practices, aligned with the National Education Policy 2020, fostering educational excellence and institutional growth. The Institution's Vision, Mission, and Core Values reflect that TINT emphasizes holistic learning, research, innovation, and entrepreneurship for sustainable development.

TINT's decentralized governance empowers internal bodies like the Academic Committee, Internal Quality Assurance Cell (IQAC), Institution's Innovation Council (IIC), Internal Complaints Committee, Finance and Purchase Committees and others, ensuring transparency and efficiency. Faculty involvement and student participation in professional bodies and activity clubs nurture leadership and societal contribution, fostering a vibrant learning community.

TINT strategises for educational development, infrastructural augmentation and industry relevance, focussing on outcome-based education. Interlinkage between teaching and research is ensured, with the IQAC upholding quality benchmarks and with R&D Cell and IPR Cell fostering interdisciplinary research. Beyond the curriculum, outcome-based education is perpetuated through ICT-based teaching methodologies, industry-oriented projects, participating in Hackathons, and conducting technical conferences and workshops.

E-governance streamlines processes across administration, finance, procurement, library and examinations through the TCSiON platform. Regular performance appraisals serve as a motivating factor for enhanced performance of faculty members and staff, resulting in high rate of staff retention. TINT emphasizes on faculty improvement and empowerment by rendering support towards research publications, conference participations, medical facilities and other such measures.

Financial management adheres to structured fund mobilization overseen by the BOG, with financial aid for faculty and staff development, such as support for participating in FDPs, Training Workshops and Conferences. Internal and external audits maintain financial integrity.

TINT's IQAC implements quality assurance strategies, enhancing research engagement and student employability. Initiatives include academic and administrative audits, collaborative quality initiatives with other HEIs and Industry, participation in recognised ranking procedures, and stakeholder feedback analysis.

TINT adopted the National Innovation and Start-up Policy 2019 to boost problem-solving skills and entrepreneurial acumen. It addresses societal needs through innovative actions, supported by its NSS Unit, and promotes Indian culture through Performing Arts, Photography, Films, Drama, Painting, and Literature Clubs.

Institutional Values and Best Practices

Techno International New Town (TINT) epitomizes a dedication to academic social responsibilities, responding adeptly to both national and global challenges. This commitment is palpable in TINT's inclusive work culture, environmental consciousness, and gender equity initiatives. TINT ensures equal opportunities with 30% representation of women among students and staff, fostering empowerment through safety protocols,

counseling services, and gender equity promotion programs. Environmental sustainability is upheld through diverse measures such as alternative energy sources, waste management, water conservation, and green campus initiatives, reaffirmed by regular quality audits, as in Green Audit and Energy Audit.

Human values and professional ethics are central to TINT's co-curricular and extra-curricular activities, embracing cultural, linguistic and religious diversity as well as socioeconomic inclusiveness. Observing National and International Days, like Environment Day, Entrepreneurship Day, Engineering Day as well as Yoga Day, Independence Day, Rabindrajayanti and others is an integral part of the inclusive culture at TINT. Scholarships, social outreach programs, and sensitization initiatives on constitutional values nurture a sense of civic duty among students and staff, fostering holistic development and societal contribution.

One of the best practices at TINT is encouraging student participation in technical Project Competitions and Idea Challenges, thus promoting breakthrough research and interdisciplinary collaborations, addressing socio economic inclusiveness in engineering education. A plethora of extra-curricular activity clubs at TINT nurtures creativity and promotes holistic development. The Green Initiative at TINT, another best practice cultivated over years, further promotes environmental awareness and sustainability through unique projects like afforestation and energy conservation, earning accolades and enhancing student engagement.

Fostering innovation and entrepreneurship is TINT's distinctive hallmark, supported by the Institution's Innovation Cell (IIC) and MSME-endorsed Business Incubation Cell (BIC). Mentorship and support for budding entrepreneurs lead to successful ventures, with 22 graduates initiating startups in the last five years. Notable achievements include winning National-level Competitions like Smart India Hackathon and MSME Idea Challenge, alongside projects funded under PRISM and other Governmental Schemes. Formal commitments to national policies and recognitions like ARIIA ranking underscore TINT's dedication to socio-economic development through innovation and entrepreneurship.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	TECHNO INTERNATIONAL NEW TOWN
Address	DG 1/1, Action Area 1, New Town, Kolkata - 700156
City	Kolkata
State	West Bengal
Pin	700156
Website	https://tint.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal(in-charge)	Ayan Chakraborty	033-23242050	9432987633	-	principal@tint.edu.in
IQAC / CIQA coordinator	Swagata Paul	033-23242091	9830765492	-	swagata.paul@tint.edu.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

State	University name	Document
West Bengal	Maulana Abul Kalam Azad University of Technology	[View Document](#)

Details of UGC recognition

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

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

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	07-06-2023	12	

Recognitions

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

Location and Area of Campus

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	DG 1/1, Action Area 1, New Town, Kolkata - 700156	Urban	5	29012

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Information Technology,Information Technology	48	WBJEE, JEE-Main	English	120	105
UG	BTech,Computer Science And Engineering,Computer Science and Engineering Cyber Security	48	WBJEE, JEE-Main	English	30	26
UG	BTech,Computer Science And Engineering,Computer Science and Engineering Data Science	48	WBJEE, JEE-Main	English	30	30
UG	BTech,Computer Science And Engineering,Computer Science and Engineering	48	WBJEE, JEE-Main	English	180	167
UG	BTech,Computer Science And Engineering,Computer Science and Engineering Internet of Things	48	WBJEE, JEE-Main	English	30	29
UG	BTech,Comp	48	WBJEE, JEE-	English	60	60

	uter Science And Engineering,Artificial Intelligence and Machine Learning		Main			
UG	BTech,Computer Science And Engineering,Computer Science and Business System	48	WBJEE, JEE-Main	English	60	42
UG	BTech,Electronics And Communication Engineering, Electronics and Communication Engineering	48	WBJEE, JEE-Main	English	120	72
UG	BTech,Electrical Engineering,Electrical Engineering	48	WBJEE, JEE-Main	English	60	13
UG	BTech,Applied Electronics And Instrumentation Engineering,Applied Electronics and Instrumentation Engineering	48	WBJEE, JEE-Main	English	60	7
UG	BTech,Civil Engineering, Civil Engineering	48	WBJEE, JEE-Main	English	60	0
UG	BTech,Mechanical Engineering,Mechanical	48	WBJEE, JEE-Main	English	60	8

	Engineering					
PG	Mtech,Electrical Engineering,Electrical Engineering	24	BTech, PGET	English	9	1
PG	MCA,Masters In Computer Application,Masters in Computer Application	24	JECA	English	120	44
PG	MBA,Masters In Business Administration,Masters in Business Administration	24	CAT, JEMAT	English	60	7

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	18				38				134			
Recruited	13	2	0	15	25	12	0	37	84	50	0	134
Yet to Recruit	3				1				0			

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				19
Recruited	14	5	0	19
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				32
Recruited	26	6	0	32
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	12	2	0	24	12	0	19	15	0	84
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	1	0	0	1	0	0	65	35	0	102
UG	0	0	0	0	0	0	0	0	0	0

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

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	22	10	0	32

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	328	130	0	0	458
	Female	123	37	0	0	160
	Others	0	0	0	0	0
PG	Male	31	4	0	0	35
	Female	15	2	0	0	17
	Others	0	0	0	0	0

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

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	54	42	34	49
	Female	19	18	10	11
	Others	0	0	0	0
ST	Male	2	1	3	1
	Female	2	0	0	0
	Others	0	0	0	0
OBC	Male	81	78	68	113
	Female	17	29	19	20
	Others	0	0	0	0
General	Male	377	444	326	378
	Female	166	153	91	131
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		718	765	551	703

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Techno International New Town (TINT), affiliated with Maulana Abul Kalam Azad University of Technology (MAKAUT), follows a structured curriculum that includes core departmental courses, open electives, humanities, sciences, mathematics, and value-added courses. This approach promotes interdisciplinary learning by integrating essential topics such as ethics, sustainability, and human values. Students in their final and pre-final years can choose open elective courses beyond their core disciplines to explore emerging technologies and multidisciplinary fields. The institute also emphasizes value education through lectures by experts during the induction program, covering topics like

	professional ethics, innovation, and the arts. Credit transfer initiatives, including MOOCS, enable students to earn additional honors degrees while enhancing employability skills. TINT collaborates with platforms like Coursera and EdX to offer online courses, supporting self-learning and diverse knowledge acquisition. The institute facilitates short-term internships abroad through MoUs with prestigious foreign universities. Faculty development programs on universal human values and mandatory yoga and meditation classes contribute to holistic education, fostering moral values and preparing students for industry leadership. TINT promotes cross-departmental research collaborations and industry-academia partnerships, aligning with the National Education Policy (NEP) 2020 by integrating humanities and sciences with STEM disciplines.
2. Academic bank of credits (ABC):	As part of the National Education Policy (NEP) 2020, TINT has begun implementing the Academic Bank of Credit (ABC), initially introduced during orientation programs for first-year students. The institute offers a Choice Based Credit System (CBCS) allowing students to select elective courses from a bank of options
3. Skill development:	Aligned with India's "Atmanirbhar Bharat Abhiyaan," TINT emphasizes skill development through strategies like industry interactions, hands-on training, entrepreneurship programs, and soft skills workshops. These initiatives involve various departments and cells within the institute, promoting technical proficiency and preparing students for real-world challenges
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	TINT prioritizes the protection and promotion of India's cultural heritage by integrating Indian knowledge systems into education. Faculty members adopt bilingual teaching approaches (Bengali and Hindi), and cultural clubs organize events to celebrate Indian traditions and languages. Initiatives like "Bhasha Dibas" highlight linguistic diversity and cultural preservation.
5. Focus on Outcome based education (OBE):	The institute adopts Outcome Based Education (OBE) to ensure student-centric learning. Each department defines vision, mission, Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) aligned with institute goals.

	Courses are structured to achieve cognitive abilities and holistic learning outcomes, including social responsibility and entrepreneurial skills. Continuous assessment and feedback mechanisms ensure program effectiveness and quality improvement.
6. Distance education/online education:	TINT has embraced online education post-COVID-19, utilizing platforms like MS Teams and MOODLE for hybrid teaching. The institute supports the National Programme on Technology Enhanced Learning (NPTEL) and encourages students to enroll in MOOCs for blended learning experiences. TINT's digital library delivers remote Sadmittance to a wide range of educational resources, enhancing learning flexibility. This paraphrased version condenses the original article while retaining key information about TINT's educational strategies and initiatives.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	The Electoral Literacy Club (ELC) is established in the year 2022 as per the directions of the Chief Election Office, New Delhi in the institute
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?	A committee has been formed to execute the responsibilities of electoral literacy , with the institute's principal serving as chair of the committee. Dr. Amalendu Singha Mahapatra, Assistant Professor in the Department of Basic Science and Humanities (Mathematics), and Dr. Partha Pratim Chakrabarty, Assistant Professor in the Department of Basic Science and Humanities (Chemistry), oversee the ELC. Each department has appointed one or two faculty members as coordinators, along with two students who have volunteered as members of the ELC. The ELC Coordinator and members regularly attend meetings concerning elections and voter-related issues convened by the BDO/DM/Zilla Parishad of Bidhannagar and Barasat Division. The BDO/DM/Zilla Parishad has instructed the HEI to undertake specific activities, including promoting voter education, linking with AADHAAR, facilitating new voter registrations, and other related tasks.
3. What innovative programmes and initiatives	These activities encompass students' voluntary

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.	engagement in the electoral processes, their involvement in voter registration, support campaigns for voter awareness, promotion of free and fair voting practices, and enhancing participation from marginalized groups in society. This includes sex workers, the elderly, transgender and people with disabilities
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 on January 25th, the Institute organizes an oath-taking program to commemorate National Voters Day. The Director administers the oath and addresses the students. On this occasion, the Institute also holds several competitions such as painting, debates, and essay writing centered around this theme.
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.	Awareness is provided to first-year students on obtaining a voter ID and linking it to AADHAAR through the VHA app or through offline methods, as they reach the age of 18. ELC members from each department are also trained in using the VHA app and in linking the Voter ID to AADHAAR.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
2471	2426	2456	2663	2750

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

2 Teachers

2.1

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

Response: 230

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

2.2

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

2022-23	2021-22	2020-21	2019-20	2018-19
177	164	154	145	144

3 Institution

3.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
1149.07	513.42	963.37	1466.85	1884.97

File Description	Document
Upload Supporting Document	[View Document](#)

03-07-2024 08:12:11

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

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

Response:

The Institute ensures effective curriculum delivery through systematic, strategic, and transparent mechanism of outcome-based teaching-learning process in compliance with the curriculum recommended by affiliating University (MAKAUT).

Preparation of Academic Calendar: At the onset of every academic year, the institute formulates the academic calendar at the institutional level, encompassing curricular, co-curricular, and extra-curricular activities, all synchronized with the university's academic calendar.

Course Allocation and Course File Preparation: Faculty members are assigned courses according to their expertise and subject preferences by the Head of the Department (HOD), with final approval from the Principal/Director. Subsequently, course files are prepared by the respective course instructors and strictly adhered to during course delivery. These course files undergo regular updates, incorporating analyses of students' feedback, attainment of Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs), along with explanations for any instances of non-attainment.

Timetable Preparation: The timetable preparation is a collaborative effort involving all the departments. Typically, routine committee members from each department lead this effort under the supervision of the Routine Committee Coordinator. These committee members gather input from faculty members, consider departmental requirements, and allocate time slots for classes, extracurricular activities, and other events. The Routine Committee Coordinator meticulously reviews the draft to ensure each program has 40 hours of weekly academic activities. Once finalized, it is submitted for approval to the Principal/Director. Upon approval, the finalized timetable is shared with all stakeholders.

Content Delivery: The course content is delivered using a blend of modern teaching methods alongside traditional lectures. Learner-centric techniques, including peer learning, collaborative learning, group discussions, video lectures, and quizzes, are integrated to foster active participation among students.

LMS System: The institute utilizes Moodle, an online learning platform (https://csemoodle.tint.edu.in/), to deliver the curriculum efficiently. Moodle serves as a centralized platform for students, offering access to various course materials such as lecture slides, multimedia resources, assignments, quizzes, and the feedback system.

Continuous Internal Evaluation (CIE): The student's academic progress is continuously monitored through a comprehensive internal evaluation strategy, including technical presentations, technical report writing, tests, seminars, and project work, all in accordance with the Academic Calendar. An

Examination Committee at the college level oversees internal assessments and conducts End-Semester University Examinations as per the guidelines of the affiliating university (MAKAUT). The Principal/Director communicates detailed examination schedules for Continuous Assessments (CAs) in advance, as per the notifications from the University.

Course instructors design Internal Assessment question papers based on COs, approved by HOD. Following Internal Assessment tests, Course Instructors evaluate answer scripts and calculate the attainment of COs, POs and PSOs. Continuous evaluation also extends to laboratory courses, project work, and seminars. End-semester examinations for laboratory and sessional courses include exams, presentations, and viva, following laboratory rubrics. Internal assessment records are maintained at the college level, and marks are uploaded onto the University portal within the specified timeframe.

The Principal/Director, through academic committee meetings, regularly monitors semester progress and offers suggestions. If there are revisions to the university academic calendar, the institute adjusts its plans accordingly.

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

1.2 Academic Flexibility

1.2.1

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

Response: 37

File Description	Document
List of students and the attendance sheet for the above mentioned programs	[View Document](#)
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Evidence of course completion, like course completion certificate etc. Apart from the above:	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Other Upload Files	
1	[View Document](#)

1.2.2

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

Response: 63.97

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

2022-23	2021-22	2020-21	2019-20	2018-19
1693	1517	1514	1710	1733

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

1.3 Curriculum Enrichment

1.3.1

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

Response:

The institute has incorporated several courses into the curriculum to address cross-cutting issues such as Human Values, Gender equality, Professional Ethics, Environment, and Sustainability. These courses are strategically incorporated to address specific crosscutting issues. The institute follows a curriculum that consists of courses designed to enhance professional competencies, fostering skills and knowledge specific to certain professions. Additionally, other courses aim to instill general competencies, including social values, human values, and environmental sensitivity. Furthermore, the institute hosts several events such seminars, workshops, guest lectures, and cultural programs to foster these values and skills, thereby ensuring holistic growth of students.

Professional Ethics: The institute places significant emphasis on professional ethics within its academic framework to ensure students refrain from deliberate misconduct. Students are educated on ethical approaches applicable to both their profession and life in general. Soft skill courses that emphasize

professional ethics are incorporated in curriculum for final-year students. Additionally, the institute conducts various personality development programs to enhance student employability. Industrial visits and internships are mandatory, and experts from the corporate sector are regularly invited to share their insights on corporate standards and culture with students.

Environment & Sustainability: Various activities, including seminars, workshops, guest lectures, industry visits, and field excursions, are organized by the institute to raise awareness among students regarding environmental and sustainability concerns. Annual events such as Earth Day, Environment Day, and Water Day are celebrated with enthusiastic student participation. Furthermore, workshops and seminars focusing on different aspects of environmental sustainability are conducted periodically.

Gender Equality: Gender equality and equal opportunities for women are essential at the institution. Every activity and program is designed to support equal opportunities for girl students and female staff. Special programs are conducted to foster awareness among girls regarding physical fitness and self-defense strategies. To ensure gender equality among staff and students, the Internal Complaints Committee is actively engaged. This committee provides comprehensive support to girl students and female staff. Regular meetings are held to discuss issues and find solutions, creating a better environment for women.

Human Values: Inculcating good human values is an essential component of the curriculum at the institute. It is firmly believed that a good human being can be shaped into a successful professional. Therefore, students are encouraged to embrace healthy values through various activities. Basic values such as respect for others and self-respect are emphasized. Students learn the principles of mutual respect and inclusiveness. To ensure a ragging-free environment, the college has an active Anti-Ragging Cell. The Internal Complaints Committee and the Discipline Committee, headed by senior faculty members, address issues related to human values.

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: 37.35

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

Response: 923

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

1.4 Feedback System

1.4.1

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

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

File Description	Document
Feedback analysis report submitted to appropriate bodies	[View Document](#)
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	[View Document](#)
Action taken report on the feedback analysis	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 63.4

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

2022-23	2021-22	2020-21	2019-20	2018-19
631	638	468	535	482

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

2022-23	2021-22	2020-21	2019-20	2018-19
1059	939	819	789	738

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.1.2

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

Response: 100

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

2022-23	2021-22	2020-21	2019-20	2018-19
175	152	134	184	129

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

2022-23	2021-22	2020-21	2019-20	2018-19
175	152	134	184	129

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	[View Document](#)
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.2 Student Teacher Ratio

2.2.1

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

Response: 13.96

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The Institution has made a conscious attempt to shift from the traditional teacher –centric approach to a student-centric one.

Experiential Learning: In order to execute experiential learning, the college practises hands-on activities and reflective practices amongst the students. The following are practised in the institute as a part of experiential learning:

- **Student Research Facilities:** The institute has state of the art laboratories for students to get their theoretical concepts clear through practical / experimental knowledge.
- **Student Exchange programs:** The institute has embarked on student exchange programmes since 2018 with universities of repute.
- By working in professional environments relevant to their field of study, students acquire practical skills, industry knowledge, and valuable networking connections, enhancing their employability and career readiness.
- **Industry Visits:** Students from different engineering branches such as Electrical engineering, Mechanical engineering etc. are sent to various industries to gain practical insights into its operations, processes, and technologies.

The student-centric learning atmosphere of the college makes them not to accept everything blindly but to question the age-old practices on scientific terms.

Flipped classroom method: In this method, students are encouraged to study the lecture material disseminated by faculty members, either through direct instruction or online platforms such as Moodle. Questions and numerical problems related to the lecture material are then solved in the succeeding classes. In this way, the course teacher is also able to ensure that the students engage with the course content beyond the class hours at home.

MOODLE: Moodle as a learning management system is used which benefits the students with an innovative and creative learning environment. The institute has its own MOODLE where various course content in the form of lecture notes, presentations, reading materials and links to resources are uploaded by the faculties and made available to the students to enhance their overall learning experience.

Participative learning: In participative learning, students are encouraged to -

- Participate in Project Competitions, design contests and various technical events.
- Arrange field/industrial visits.
- Conduct sessions like group discussion, seminar, and quiz, poster presentation to make the learning more interactive and collaborative.
- Conduct complex Laboratory Experiments.
- Write Research Papers.

ICT Enabled Teaching: ICT enabled teaching incorporates LCD projector, Smart Classrooms, E-learning materials, etc. in classrooms. During the virtual mode, online tests, seminar, quizzes were conducted. All learning materials are provided to students via MOODLE. The following ICT enabled tools are used:

- Power point presentation
- YouTube lecture.
-
-
- MTutor as an online learning platform
- Seminar hall is equipped with multimedia facilities using ICT tools for conducting invited talks and webinars.

ICT for course delivery also includes educational websites. MOODLE on our college website is a mandatory ICT tool for learning process, and it also enables monitoring of students' learning process through online quizzes, submission of online assignments, online tests.

Through Group Learning and Problem solving methods, the slow learners are encouraged to develop problem solving abilities, technical abilities, solution, capacities etc. and to ensure quality in the learning process.

Research oriented learning: Students are encouraged to involve in research-oriented learning and to pursue with research-based projects.

File Description	Document
Upload 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: 97.15

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

2022-23	2021-22	2020-21	2019-20	2018-19
182	168	155	152	150

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	[View Document](#)

2.4.2

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

Response: 18.62

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

2022-23	2021-22	2020-21	2019-20	2018-19
49	31	27	23	16

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	**View Document**
Institution data in the prescribed format	**View Document**
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	**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:

Techno International New Town is affiliated to Maulana Abul Kalam Azad University of Technology (MAKAUT) and follows the evaluation system recommended by it. In a semester, four Continuous Assessments (CA) are conducted according to the directives and the time slots stipulated by MAKAUT at the commencement of every academic session. The time slots are published in the university website and displayed in the College Notice Board and the institutional website.

Each internal assessment carries 30 marks out of which 5 marks for attendance and remaining 25 marks for continuous evaluation. The mode of assessment is through presentation, quiz, group discussion, report writing and written examination. A general mandate is given at the outset of the semester, that adequate attendance is required to appear in the CAs.

In cases of deficit attendance, students have to apply with proper justification and/or documentation to the concerned teacher. Thereafter, an appropriate decision is taken in Departmental Academic Committee (DAC) in presence of head of the department to resolve the issue. Thus, internal continuous assessment for the theoretical papers is out of 30 marks and the end semester external examination conducted by MAKAUT is out of 70 marks. MAKAUT offers two continuous internal assessments for the laboratory papers, in a semester carrying 40 marks each. An end semester practical examination of 60 marks and sessional of 100 marks is conducted at the institute as per directive of MAKAUT. Rubrics are being prepared for both internal and external assessment and linked with the University portal. It may be noted that an ERP based assessment marking is followed.

Examination Committee Head is a faculty member deputed by the competent authority of the institute. During semester examinations, an Officer-in-charge is deputed by MAKAUT. For smooth conduction of the end semester examination all the departmental representatives are incorporated in the Examination Committee.

The grievance redressal process for internal examination is in place with full transparency. For

university examinations, the Examination Committee resolves student concerns such as online

examination form submissions, errors in subject entries, admit card issues etc. within a specified time. To extinguish dissatisfaction in respect of university examination marks obtained by the students can be opted review or scrutiny of their answer scripts (PPR/PPS) as per notification issued by MAKAUT. The college facilitates all such measures for its students. Similarly, students can report any grievance regarding internal examinations. Initially, these concerns are handled at the departmental level, and if unresolved then they are permitted to report to the Examination Committee through proper academic process. Transparency and fairness are maintained throughout, with a focus to reach a resolution that is just and equitable for the student.

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

Response:

The institute has adopted the Program Outcomes (POs) outlined by the National Board of Accreditation (NBA) to describe the qualities and competencies expected from graduates upon completion of the program. Program Specific Outcomes (PSOs) tailored to suit each program articulate the program's

competencies derived from its core curriculum. These PSOs are formulated through discussions among the senior faculty of the institute and are subject to review and approval by the Department Academic Committee (DAC). Typically, the PSOs are quantified between 2 to 4 to ensure optimal clarity. The Internal Quality Assurance Cell(IQAC) of the institute approves the PSOs of all programs and the COs for all the courses.

Course Outcomes (COs) outline the abilities that students will attain through individual courses. Course coordinators may select COs provided by the university or to develop them based on Bloom's Taxonomy and course objectives. These COs undergo a collaborative process, initially brainstormed by the faculty members, then reviewed and finalized by the DAC. The COs are endorsed by the IQAC. They are subsequently communicated to faculty members during departmental meetings, and thereafter to the students by their respective subject teachers. Additionally, they are prominently displayed on the college website.

The dissemination of POs and PSOs occurs through various channels such as:

- Institute website
- Faculty room
- The Head of the Department (HOD) office
- Class rooms interactions
-
- Notice boards
- Departmental library
- Parent teacher meet
- Meetings/ Interactions with employers

COs are distributed during class, through course descriptions, displayed in the laboratories and website. At the commencement of academic session, a formative assessment is carried out through feedback forms for every student and the understanding and explanation of CO forms a part of the questionnaire. At the conclusion of every course, summative feedback is taken, which is analyzed by the department and is treated as course exit survey.

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

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

In the educational framework, each course instructor meticulously formulates comprehensive teaching plans aligned with course outcomes, for theoretical and laboratory courses. Here's a breakdown of the major points:

- **Course Planning**:
  - Teachers develop teaching plans for theoretical and practical courses.
  - Content is aligned with course objective and course outcomes.
  - Rubrics are formulated for the assessment

- **Program Outcomes (POs) and Program Specific Outcomes (PSOs)**:
  - Indicate competencies achieved throughout the program.
  - Course Outcomes (COs) are mapped to POs and PSOs.
  - Mapping includes varying weightages:

3 for high   2 for moderate   1 for low.

- **Assessment Methods for COs**:
  - Internal and external evaluation methods are employed.
  - Internal assessment at the department level includes internal examinations, technical report writing, quizzes and presentations.
  - Affiliated university guidelines (MAKAUT) are followed.
  - Questions in internal tests are aligned with COs linked with POs.
  - Projects, seminars, etc., are evaluated using predefined rubrics.
  - External evaluation at the university level follows a centralized procedure.

- **Weightage for Evaluation**:
  - Achievement of COs for theory subjects is evaluated with 30% weightage for internal evaluation and 70% for external evaluation
  - CO assessment for practical papers is evaluated with 40% weightage for internal tests and 60% for external evaluation

- **Assessment of PO Attainment**:
  - Divided into Indirect and Direct Assessment.
  - Direct evaluation evaluates each CO's contribution to PO attainment, holding 80% weightage.
  - Indirect Assessment considers stakeholders' perspectives correlated with PO attainment, holding 20% weightage.

- **Departmental Academic Committee (DAC)**:
  - CO and PO attainment deliberated in DAC meetings.
  - Discussions and brainstorming sessions aim to enhance and set targets for the forthcoming academic year.
  - Appropriate corrective steps are taken if targets are not met.

This structured approach ensures a comprehensive assessment of COs and POs, fostering continuous improvement within the academic system.

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

2.6.3

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

Response: 94.17

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

2022-23	2021-22	2020-21	2019-20	2018-19
582	646	721	618	647

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

2022-23	2021-22	2020-21	2019-20	2018-19
620	649	728	689	727

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	[View Document](#)
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response:

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

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

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

Response: 13.9

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

2022-23	2021-22	2020-21	2019-20	2018-19
3.915	0	0	0	9.98

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

3.2 Innovation Ecosystem

3.2.1

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

Response:

The institution has established a vibrant ecosystem for fostering innovations through the Indian Knowledge System (IKS). This comprehensive framework encompasses initiatives such as raising awareness about Intellectual Property Rights (IPR), setting up dedicated IPR cells, establishing incubation centers, and implementing various other measures aimed at creating and transferring knowledge and technology. Notably, the impact of these initiatives is clearly evident through tangible outcomes that reflect the institute's commitment to driving innovation and knowledge exchange. TINT offers a diverse range of B. Tech programs including Electronics and Communication Engineering., Applied electronics and Instrumentation Engineering, Computer Science and Engineering, Computer Science And Engineering(Cyber Security), Computer Science And Engineering(Data Science), Computer Science And Engineering(Internet of Things), Artificial Intelligence and Machine Learning Computer Science and Business System, Information Technology, Civil Engineering, Mechanical Engineering and Electrical Engineering, along with M. Tech in Electrical Engineering, Master of Computer Application

and Basic Sciences and Humanities. The institution prioritizes knowledge transfer, enriched teaching-learning experiences, extensive research, and active social outreach efforts through following activities.

Internal Quality Assurance Cell (IQAC): Established on August 9, 2017, the IQAC is dedicated to enhancing both academic and administrative performance through the cultivation of a quality-centric culture and the adoption of best practices across all engineering departments, technical clubs, the Research & Development Cell (R&D), and Institute Innovation Councils (IIC), whose policy is framed by the National Innovation and Startup Policy (NISP). Within the framework of IIC, units including the Intellectual Property Rights Cell (IPR), Business Incubation Cell (BI), YUKTI National Innovation Repository, and KALAM Program for Intellectual Property Literacy and Awareness Campaign (KAPILA) are operational, nurturing an innovation ecosystem conducive to the transfer of knowledge and technology.

Clubs and Collaborations:

- TINT Coding club is instrumental in fostering a culture of research and innovation among students.

- Strategic partnerships with industry giants like Capgemini India, Tata Consultancy Services Limited, and Wipro Limited significantly enhance industry connections and boost employability prospects for students.

Research & Development (R&D) Cell:

- At the core of nurturing entrepreneurial talents, the R&D Cell actively supports start-ups and engages students in initiatives like Smart India Hackathons and research competitions.

- It secures substantial funding from entities such as State DST, Central DST, and Pollution Control Board to drive diverse projects addressing critical societal challenges.

Institution Innovation Cell (IIC):

- Formally integrated under the National Innovation and Start-up Policy (NISP) in 2019, the IIC is dedicated to fostering innovation among students and faculty.

- Initiatives like KAPILA and YUKTI within the IIC framework promote interdisciplinary research and entrepreneurial endeavors.

Intellectual Property Rights (IPR) Cell: Equips students and faculty with essential knowledge and resources for patent filing through targeted workshops and expert guidance, ensuring clarity and efficacy in the patenting process.

Business Incubation Cell: A vital component in fostering student entrepreneurship, the Business Incubation Cell provides mentorship, workshops, and industry interactions to facilitate the successful

establishment of innovative ventures and start-ups.

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: 32

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

2022-23	2021-22	2020-21	2019-20	2018-19
22	8	2	0	0

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: 1.04

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

2022-23	2021-22	2020-21	2019-20	2018-19
46	59	48	48	39

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	[View Document](#)
Link to re-directing to journal source-cite website in case of digital journals	[View Document](#)
Links to the papers published in journals listed in UGC CARE list or	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.3.2

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

Response: 0.77

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

2022-23	2021-22	2020-21	2019-20	2018-19
39	32	33	47	26

File Description	Document
List of chapter/book along with the links redirecting to the source website	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.4 Extension Activities

3.4.1

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

Response:

Techno International New Town (TINT) is dedicated to fostering a comprehensive and conscientious community through a diverse array of initiatives spanning multiple domains. These initiatives are strategically designed to promote breakthrough research, enhance academic impact, and nurture holistic student development.

At TINT, a key focus lies in advancing cutting-edge research that makes a tangible impact. The institution allocates resources strategically to support research endeavors that address pressing societal challenges and pay to economic growth. By developing multidisciplinary programs aligned with both institutional goals and societal needs, TINT ensures research efforts are relevant and impactful. This attitude not only augments the academic environment but also prepares students to tackle real-world problems with innovative solutions.

Central to TINT's mission is instilling a robust research culture among its students. Through various academic and extracurricular activities, students are encouraged to engage in research from an early stage of their academic journey. This proactive approach not only enhances their academic prowess but also trains them with the critical thinking and problem-solving skills necessary for professional success.

Furthermore, TINT places a strong stress on the holistic growth of its students. Beyond academic excellence, the institute prioritizes the cognitive, physical, social, and emotional well-being of its students. Programs and initiatives are designed to foster a supportive and nurturing environment where students can thrive personally and academically. By promoting a balanced lifestyle and encouraging participation in sports and cultural activities, TINT aims to develop well-rounded individuals who are prepared to make meaningful contributions to society.

In line with its commitment to innovation and excellence, TINT actively cultivates industry institute partnerships with leading industry house and top educational institutions. These collaborations facilitate exchange of knowledge, internship opportunities, and joint research projects that enhance the learning experience and broaden career prospects for students. By bridging the gap between academic circles and industry, TINT ensures that its educational offerings remain relevant and responsive to evolving market needs.

Additionally, TINT recognizes the status of addressing societal issues and challenges affecting today's youth. Initiatives aimed at promoting mental health awareness, combating lifestyle diseases, and fostering ethical values are integral to the institute's educational philosophy. Through community outreach programs, social activities, and awareness campaigns, TINT endeavors to produce a supportive environment that promotes well-being and ethical consciousness among its student body.

The institute's Research and Development Cell plays a crucial role in supporting these initiatives by providing resources, mentorship, and infrastructure for research-driven projects and activities. Whether through organizing hackathons or facilitating collaborative research efforts, the R&D Cell actively promotes innovation and entrepreneurship among students.

TINT is committed to nurturing a community of socially responsible and environmentally conscious

individuals. By integrating rigorous academic programs with holistic student development initiatives and impactful research endeavors, TINT prepares its students to excel academically, contribute meaningfully to society, and lead with integrity in a rapidly evolving global landscape. Through its comprehensive approach, TINT aims to empower students to become ethical leaders and innovators who can address the complex challenges of the future.

File Description	Document
Upload Additional information	[View Document](#)

3.4.2

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

Response:

The institution's commitment to social responsibility and community engagement is exemplified through a series of impactful initiatives, ranging from environmental awareness and healthcare support to educational empowerment and humanitarian efforts. These collaborations reflect the institute's dedication towards a positive impact.

Earth Day Celebration program: The Institution and Green for Life foundation join hands in organizing an Earth Day Celebration, fostering environmental consciousness. Proudly, the institution has been honored with a certificate of appreciation from Green for Life Foundation, recognizing their commitment to sustainability. This collaborative effort underscores the importance of collective action in nurturing our planet and inspires communities to embrace eco-friendly practices for a greener future.

Blood Donation Camp: Life Care, a blood bank in Kolkata, collaborates with the said institute for a Blood Donation Camp aimed at educating college students about the importance of community service and altruistic contributions. This initiative encourages students to contribute to saving lives and fosters values of responsibility and empathy. Life Care acknowledges the institute's impactful contribution with a Certificate of Appreciation, recognizing their dedication to humanitarian values.

Medical Camp for Women: On November 16, 2019, The Institution's NSS unit organized a Medical Camp for Women in Nimkuria Village, Bhangar. With 20 volunteers, 2 faculty members, and a doctor, they served 30 women, conducting medical examinations, prescribing medications, and distributing medicines, symbolizing effective community care and responsibility.

Exhibition cum sale of handicrafts on Saraswati Puja: The Institution's NSS unit collaborates with Muktakash foundation for an "Exhibition cum Sale of Handicrafts on Saraswati Puja," scheduled on February 09, 2019, from 11:00 am to 4:00 pm. This event showcases and promotes diverse Indian handicrafts, offering a chance to appreciate and purchase unique, handcrafted items.

Literacy campaign for underprivileged children: The Institution's NSS unit, in collaboration with Muktakash Foundation, conducted a "Literacy Campaign for Underprivileged Children" on April 1,

2019, from 11 am to 3 pm. The event included competitions in general knowledge and essay writing, with 35 children participating and six emerging as winners. Stationery prizes were awarded to inspire academic excellence and positive societal contribution. Muktakash appreciated the institution for this initiative.

An awareness session & kit distribution on health & hygiene for under privileged children: The Institution's NSS unit, in collaboration with Muktakash Foundation, conducted an "Awareness Session & Kit Distribution on Health & Hygiene for Underprivileged Children" on June 5, 2019. The program aimed to empower underprivileged children by promoting health and hygiene through educational sessions and distribution of hygiene kits. The institution was honored with an appreciation certificate from Muktakash Foundation for their commitment to this cause.

Literacy campaign for street children: The Institution's NSS unit, in collaboration with Muktakash, organized a Literacy Campaign for Street Children on November 17, 2018, at Swami Vivekananda's Ancestral House Culture Center from 3 pm to 6 pm. Twenty NSS volunteers engaged 35 children in various subjects and conducted competitions in general knowledge and essay writing. Prizes of stationery were awarded to inspire academic pursuit. Muktakash honored the effort with a certificate of appreciation.

File Description	Document
Upload Additional information	[View Document](#)

3.4.3

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

Response: 12

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

2022-23	2021-22	2020-21	2019-20	2018-19
2	1	1	2	6

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	[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: 40

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	[View Document](#)
List of year wise activities and exchange should be provided	[View Document](#)
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

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

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

Response:

Techno International New Town (TINT) college has sufficient infrastructure and tangible facilities for teaching-learning. The Institute has adequate built-up area to cover all the obligations of the approved programs as per AICTE norms.

Classrooms:

To provide a good learning environment and exchange of information, the college maintains 64 well-ventilated, and airy classrooms with modern amenities and comfortable seating arrangements. Majority of the classrooms are well equipped with roof mounted projectors and double exit facility for safety measures.

Laboratories:

- Well-equipped high end technology laboratories equipped with latest software and ceiling-mounted projectors, with uninterrupted power supply in laboratories.

- Air-conditioners are installed in all computer laboratories.

- High speed internet facility with LAN is available in all computer laboratories.

Seminar and Conference Halls:

- College is a centre of multiple academic activities which go on the campus throughout the academic year. To conduct such activities, the college has 5 spacious seminar halls decorated with luxurious dais and relaxing chairs.

- The institute also has a Language Lab with interactive-audio support in which some of the seminars and workshops for the students and teachers are conducted.

Computing Equipment :

There are a total number of 724 computers.

- Out of these 724 computers, 585 are solely designated for the students.

- There are numbers of laptops available for the teachers and staff.

- There are 20 printers with scanner.

- The college campus has Wi-Fi enabled with sufficient access points.

ICT – enabled facilities:

In TINT all the departments use conventional methods of classroom teaching blended with PowerPoint Presentation, Animation, Video tutorial etc. From March 2020, the departments are using MS Teams and Moodle for online teaching.

- We have online courses for most of the subjects of engineering departments on Moodle. URL - https://csemoodle.tint.edu.in

- Setup of NPTEL Local Chapter at college, with various courses like artificial intelligence, design and analysis of algorithm, machine learning, Data Structures using Python, computer organization etc.

Facilities for Sports:

- The college has equipment for other outdoor games like cricket, badminton, volleyball, discuss throwing, shotput, javelin, high jump, etc.

- Indoor games facilities include table tennis, carom, etc.

Facilities for Cultural Activities:

The Cultural Committee oversees mobilizing students and organizing different cultural activities throughout the year. The Committee arranges programs on dance, music, photography, debate, quiz, poster making, etc.

- Annual cultural fest and Fresher's welcome organized by the institute.

- The students and the teachers of each department celebrate Teachers' Day and Engineer's Day with cultural activities.

- Apart from the academics, students can engage themselves in extracurricular activities based on their preferences as there are a few clubs mentioned as follows: -

1. TINT Art Club - Aesthetica
2. TINT Talkies - TINT Film & Drama Club
3. TINT Literary Club - LITWITS
4. Hridmajhare -TINT Music Club
5. TINT Photography Club

Additional Physical Facilities:

- Diesel Generator (DG):
- Boys & Girls Hostels:
- Canteen/Cafeteria:
- R.O. (Reverse Osmosis) plant:
- Fire Extinguisher:
- CCTV (Closed-Circuit Television) campus surveillance:
- Elevator (Lift):

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

4.1.2

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

Response: 36.43

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

2022-23	2021-22	2020-21	2019-20	2018-19
295.31	109.05	332.54	387.79	1052.96

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	[View Document](#)

4.2 Library as a Learning Resource

4.2.1

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

Response:

The Integrated Library Management System (ILMS) at Techno International New Town is powered by TCSiON implemented in 2022. This comprehensive system efficiently handles all aspects of library operations, from cataloguing and circulation management to report generation, fine collection, and barcoding. Prior to adopting TCSiON, the library operated using LibSys LMS from 2018 to 2021.

A cornerstone of Techno International New Town's library infrastructure is its robust digital ecosystem, providing uninterrupted access to a diverse array of online resources. The digital library section features 10 computer terminals equipped with high-speed internet connectivity at 1GBPS. These terminals facilitate seamless access to a wide range of subscribed electronic resources, including 294 eJournals from Elsevier's Science Direct, 13,337 eBooks focusing on Engineering, Mathematical, and Material Science from Elsevier, and an extensive collection of over 42,000 eBooks in Engineering and Technology from ProQuest eBook Central. The library also offers access to educational content through platforms like NPTEL and Swayam video lectures, alongside resources from the National Digital Library of India (NDLI). Remote access to these resources is enabled through Knimbus mLibrary Standard, allowing users to engage with materials beyond traditional library hours.

In addition to its digital holdings, institution also maintains a physical collection. The library houses 3,784 distinct book titles spanning various disciplines, supplemented by an impressive 48,192 print volumes. This collection is further enriched by 55,450 eBooks, ensuring comprehensive coverage of academic and research needs across diverse subject areas. Print resources also includes 33 print journals, 9 newspapers, and 5 magazines, offering a rich repository of scholarly literature.

Operating hours are tailored to accommodate the schedules of the academic community, with the library open Monday to Friday from 09:30 am to 06:30 pm, and Saturdays from 10:00 am to 5:00 pm. Circulation services are available from 10:00 am to 05:00 pm, facilitating the borrowing and returning of materials during peak usage times. Additional amenities include open access to library resources, dedicated reference services, and a WiFi-enabled free reading room that supports uninterrupted study and research. Users also benefit from scanning, printing, and reprography services, as well as provisions such as headphones for enhanced multimedia engagement.

Membership affiliations further enhance the library services, with Institution of Engineers, India (IEI) and National Digital Library of India (NDLI). These affiliations not only expand access to resources but also foster collaboration and knowledge sharing within the academic community.

Financially, the library demonstrates a significant commitment to resource acquisition and maintenance, averaging an annual expenditure of INR 7.90 lakhs over the past five years. Thus library of the institute plays a pivotal role in teaching learning process of the institution.

File Description	Document
Upload Additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1

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

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

Response:

The primary objective of updating IT facilities at the Institute is to maintain a robust, secure, and efficient technology infrastructure. This infrastructure supports the institution's mission, goals, and stakeholders' needs in today's rapidly evolving digital landscape. To achieve this, the college prioritizes purchasing branded equipment, gadgets, and accessories as required by respective departments, ensuring updates align with curriculum needs.

Comprehensive Internet and Network Connectivity

The Institute provides broadband connections with maximum speed for students, faculty, and staff. Computer and internet connectivity are available at various locations within the institute to facilitate teaching and learning resources. All departments are interconnected through a Local Area Network (LAN) with a stable internet facility. The Institute boasts a completely Wi-Fi-enabled campus, enhancing accessibility and convenience.

Regular Hardware Up-gradation

Hardware upgrades are regularly conducted to meet the specific needs of individual departments. Outdated systems are replaced with new models featuring advanced configurations. The Institute updates IT facilities under the following circumstances:

- **Obsolete Devices**: When devices like desktops or laptops become too old or incompatible with newer operating systems and software.
- **Damaged Devices**: When devices are damaged beyond repair.
- **Component Failure**: When critical components like RAM, HDD, keyboards, mice, or SMPS are damaged.

Criteria for Adding/Extending IT Facilities

The Institute extends IT facilities based on the following criteria:

- **New Additions**: When a new classroom, lab, or office is added.
- **Syllabus Modifications**: When a new lab is required due to changes in the university syllabus.

Software Up-gradation

The college ensures its systems remain secure, efficient, and compatible with the latest technologies by purchasing licensed software. Key software includes:

- MS Office
- Windows
- Visual Studio Professional
- Oracle
- Net Protector Antivirus
- Tally ERP

Antivirus software is centrally implemented and updated annually, and operating system updates are managed in a phased manner to ensure continuity and security.

Extensive LAN Facility

The LAN facility is available for students and teachers, with internet browsing capabilities on all computers in various departments, the administrative office, and the accounts section. This network setup supports seamless communication and resource sharing across the Institute.

Wi-Fi Enabled Campus

The entire campus is interconnected with a free Wi-Fi facility. Three different internet service providers—Meghbela Broadband (40 MBPS), TCL (50 MBPS), and Alliance Broadband (1 GBPS)—ensure reliable and robust internet services.

Optimal Bandwidth for Internet Connection

The Institute leverages multiple internet service providers, including Meghbela, TCL, and Alliance Broadband, to provide stable and high-speed internet connections for students, faculty, and staff. The internal network setup includes the latest routers, switches, and network architecture to enhance speed and performance. Alliance Broadband offers the highest bandwidth at 1 GBPS, ensuring maximum available bandwidth for the institution. Speed tests conducted by the network administrator at various times of the day confirm the actual speeds achievable by users.

File Description	Document
Upload Additional information	[View Document](#)

4.3.2

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

Response: 4.22

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

Response: 585

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	[View Document](#)
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1

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

Response: 41.13

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

2022-23	2021-22	2020-21	2019-20	2018-19
544.91	312.22	342.45	708.49	550.62

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	[View Document](#)

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Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

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

Response: 15.45

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

2022-23	2021-22	2020-21	2019-20	2018-19
748	510	271	221	222

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	[View Document](#)
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	[View Document](#)
Upload policy document of the HEI for award of scholarship and freeships.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.2

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

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

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	[View Document](#)
Report with photographs on ICT/computing skills enhancement programs	[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: 43.24

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

2022-23	2021-22	2020-21	2019-20	2018-19
1021	500	581	1115	2303

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

5.1.4

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

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

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	[View Document](#)
Proof related to Mechanisms for submission of online/offline students' grievances	[View Document](#)
Proof for Implementation of guidelines of statutory/regulatory bodies	[View Document](#)
Details of statutory/regulatory Committees (to be notified in institutional website also)	[View Document](#)
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	[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: 44.59

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

2022-23	2021-22	2020-21	2019-20	2018-19
320	353	286	253	221

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

2022-23	2021-22	2020-21	2019-20	2018-19
582	646	721	618	647

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	[View Document](#)
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.2.2

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

Response: 4.55

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

2022-23	2021-22	2020-21	2019-20	2018-19
8	12	18	16	27

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.3 Student Participation and Activities

5.3.1

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

Response: 11

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

2022-23	2021-22	2020-21	2019-20	2018-19
7	3	0	0	1

File Description	Document
Upload supporting document	[View Document](#)
list and links to e-copies of award letters and certificates	[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: 10.8

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

2022-23	2021-22	2020-21	2019-20	2018-19
14	15	11	7	7

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:

The institute's alumni are valued assets and significant stakeholders. The primary goal of the Alumni Association is to foster a close relationship between former students, faculty, the institution, and all other stakeholders by building a network that will allow former students to stay involved with their alma mater. The excellence, lifetime relationships, lifelong learning, inclusivity and diversity, global citizenship, and local and international institute advocacy are the basic ideals upheld by an alumni association.

TINTAC (**TINT Alumni Circle**), the Alumni Association of TINT have taken significant strides. Prominent corporations including Microsoft, Capgemini, Cognizant, L&T Infotech, Amazon, Pinnacle, RDC Concrete, TCS, Ernst & Young, Keysight, Subex, and Dell have offered them significant roles. Our alumni have been recognized for their extraordinary talents by these prestigious firms, who have extended competitive compensation packages to them, ranging from ?5 lakhs to ?9 lakhs annually. These remarkable placements are evidence of the institution's superior instruction and preparedness for the workforce.

Numerous alumni have continued their education at internationally recognized universities, demonstrating their superior academic standing and ability to compete on a worldwide scale, including the University of Central Florida, the Illinois Institute of Technology in Chicago, the University of Colorado Boulder, the University of Houston in Texas, and the University of Passau in Germany. One of the notable alumni contribution is towards establishing work collaboration with the U.S. Department of Agriculture in Riverside, University of California, Riverside.

For long TINT Alumni members have always volunteered for guiding the current batch students through various encounters and have benefited them much in terms of receiving advice regarding competitive exams and campus placement. Additionally, the Alumni organized advisory sessions where former students discussed their experiences of attending TINT, continuing on to other universities, and ultimately adjusting to the work culture at their current place of employment. Students discussed in-depth about the different tasks they would be given if they join different companies and gained first-hand knowledge of the industry.

The Alumni and Faculty members have worked hand to hand in various forms. During the pandemic they came together to form the TINT Covid Care group which contributed significantly towards providing humanitarian support to the society by assisting the people affected by the pandemic.

The Alumni's achievements are a testament to the strong educational foundation and all-encompassing growth they obtained at the institute. TINT is still committed to creating an atmosphere that develops future innovators and leaders. It also supports its graduates as they go out into the world, proud of the legacy they leave behind.

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

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

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

Response:

Institutional Vision:

To achieve excellence in transformative education inculcating research, innovation, and entrepreneurship skills that will create good leaders and innovators for sustainable growth of technology, economy, and society.

Institutional Mission:

1. To create a holistic ambience where state-of-the-art research, new ideas, innovation, and leadership are encouraged.
2. To develop new knowledge and foster talent for identifying and addressing the problems faced by the industry, society, and the nation.
3. To facilitate innovation and entrepreneurship for creation and enhancement of employability with the skills imparted and the knowledge generated.
4. To encourage collaborative and multi-disciplinary research in partnership with the industry and other academic institutions with the aim of instilling an urge for lifelong learning in the students.

The institute's vision and mission align with NEP 2020, aiming to build a robust institutional framework that meets the objectives of the national higher education policy. These values are reflected in the institute's ethos and operations. As an affiliated college, our ability to fully implement NEP 2020's vision and mission is somewhat limited. However, we maintain academic standards and support multidisciplinary research through our Internal Quality Assurance Cell and Research & Development Cell.

The Head of the Institute is both the academic and administrative leader, overseeing all institutional activities in collaboration with the Governing Body and Department Heads. We have a strategic plan to effectively integrate teaching and research, guided by the IQAC's recommendations. The Internal Quality Assurance Cell (IQAC) ensures quality benchmarks in academic and administrative activities, aiming for continuous enhancement of the teaching-learning process.

Various administrative and academic bodies, including the Academic Committee, Anti-ragging Committee, and Grievance Redressal Cell, operate effectively through mandatory committees and cells. These bodies work together with the head of the institute to achieve the institution's vision and mission.

Department Heads, supported by the institute's head, uphold academic standards and foster connections between industry and the institution through the IIC. This involves organizing lectures, seminars, training sessions, and workshops led by industry professionals to support the comprehensive development of future professionals, in line with the institution's goals.

Faculty members are encouraged to engage in institutional governance to support ongoing growth through various committees and cells. The college aims to address societal needs through innovative actions and plans. To this end, several cultural clubs and committees have been established to promote Indian culture. These clubs and committees strive to motivate students towards overall development through skill-based initiatives, preparing them to contribute to society as responsible citizens.

File Description	Document
Upload Additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1

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

Response:

The institute's strategic plans are geared towards educational advancement, infrastructural improvement, and overall growth. All stakeholders at the management, institutional, and departmental levels are encouraged to actively contribute to the implementation of these plans.Academic excellence is the foundation of the strategic plan, with a focus on outcome-based education, ICT-enabled teaching methods, entrepreneurship, innovation, and collaborative, multidisciplinary research.

The institution aims to develop engineers who are both professionally skilled and capable of conducting research, preparing them ready for industry and academia. The career development program, led by experts, assists students in gaining career knowledge, understanding educational opportunities, and improving job search skills. Faculty quality is improved through advanced technology training, hiring PhD-qualified faculty, enhancing R&D facilities, and increasing engagement with professional organizations.

To foster problem-solving skills and entrepreneurial abilities in students and faculty, the institute has adopted the National Innovation and Startup Policy (NISP) 2019. In line with this policy, the Institution Innovation Cell (IIC) was established to foster a culture of innovation.

Techno International Newtown (TINT) employs a decentralized administration structure to ensure effective management and academic operations:

a) **Board of Governors:** This top decision-making body sets the vision and mission, determines strategic

directions, formulates policies, monitors activities, enforces rules, appoints staff, and handles promotions.

b) **Head of the Institute:** As the academic and administrative leader, this role involves communicating the institution's vision, mission, and objectives, and overseeing teaching, research, publications, and committee activities for faculty and students.

c) Internal Quality Assurance Cell (**IQAC**)**:** The IQAC is dedicated to enhance and maintain quality within the institution, playing a key role in monitoring internal quality standards.

d) **Registrar:** The Registrar oversees all administrative functions and manages records.

e) **Heads of Departments:** Under the supervision of the Head of the Institute, department heads ensure that the curricular, extracurricular, and promotional activities are carried out as per the academic calendar.

f) **Librarian:** The librarian manages the library's planning, administration, and budget, in consultation with department heads and the principal.

g) **Training & Placement Officer:** This officer handles student training and placement activities, working with the Head of the Institute, Central Placement Cell Head, Registrar, and department heads to enhance employability.

h) **Officer in Charge (Examinations):** This officer supervises the Examination Cell, managing university exams and internal tests under the guidance of the Head of the Institute.

File Description	Document
Upload Additional information	[View Document](#)
Institutional perspective Plan and deployment documents on the website	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2.2

Institution implements e-governance in its operations

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	[View Document](#)
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	[View Document](#)
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1

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

Response:

Our institution employs a comprehensive 360-degree Performance Assessment to enrich the capabilities and skillset of our staff. The Appraisal Committee, composed of senior academicians engaged by the Authority/Society, conducts performance reviews for regular employees and probationers at the end of each academic year. It is compulsory for all faculty and staff members to undergo performance appraisals before their service is confirmed. This appraisal is based on total performance evaluation by the HOD/Principal, followed by a proper review by the Appraisal Committee.

Review of the performance are carried out for all the regular employees, focusing on objective and measurable criteria. Faculty members are required to submit a Performance Appraisal Report (PAR) form, which details their involvement in both academic and administrative activities. The Performance Review Report is a crucial document for salary adjustments and addressing performance-related issues. The PAR includes multiple parameters, in line with the Goal Sheet approved by the HR section, featuring quantitative measures for teaching performance and additional criteria such as research contributions, publications, seminars, and participation in co-curricular and extracurricular activities.

Teaching and non-teaching staff seeking promotion under the Career Advancement Scheme (CAS) submit a Performance-Based Appraisal System Proforma, supported by credentials per UGC Regulations guidelines. Promotions are granted as per Selection Committee's recommendations. Faculty members identified for improvement are advised to pursue further development.

The institute offers several welfare measures for improving the performance and sense of belonging among its staff. These include:

- Provident Fund for all eligible employees.
- Special academic leave for attending conferences and seminars, both domestically and internationally.

- Financial support for faculty attending conferences, workshops, and Faculty Development Programs (FDPs).
- Weekly special research leaves for faculty enrolled in PhD programs.
- Admission discounts for TIG school students.
- Six months of maternity leave for eligible regular female employees.
- Uniforms for all class IV staff.
- Access to a doctor for all the members of TINT family during duty hours.
- Psychological counselling support for students and staff during duty hours.
- Medical discount on treatment to Techno Global Hospital for all eligible Staff.
- Festival allowance to all Group 'D' Staff.

File Description	Document
Upload 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: 8.42

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

2022-23	2021-22	2020-21	2019-20	2018-19
19	11	10	16	10

File Description	Document
Policy document on providing financial support to teachers	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	[View Document](#)
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	[View Document](#)

6.3.3

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

Response: 39.81

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

2022-23	2021-22	2020-21	2019-20	2018-19
74	69	123	81	63

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

2022-23	2021-22	2020-21	2019-20	2018-19
51	50	50	48	47

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the certificates of the program attended by teachers.	[View Document](#)
Annual reports highlighting the programmes undertaken by the teachers	[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:

Techno International New Town (TINT) has a comprehensive procedure for mobilizing funds and utilizing resources for academic, administrative, and overall development purposes. The Board of Governors develops financial policies and oversees the implementation of approved budgets and actual expenditures. The primary source of funds is student fees. Departmental budgets are formulated after thoroughly reviewing the departments' needs and assessing the previous year's allocations. The consolidated budget is then presented to the Governing Body for approval. Student fees are allocated for faculty and staff salaries, as well as for enhancing academic and infrastructural facilities. Funds are deposited in the bank, and expenses are paid via cheques or electronic transfers. Expenditure information is monitored at various management levels.

The institution has a strategic plan to optimize fund utilization for effective teaching and learning practices, which includes:

- Conducting orientation programs and interdisciplinary activities
- Organizing workshops, seminars, and expert talks
- Supporting research and development activities
- Hosting annual tech fests, alumni meets, sports events, and parent-teacher meetings
- Covering various expenditures under categories such as R&D, T&P, and software.

The institution conducts regular internal audits biannually and external audits annually to comply with legal requirements. Any auditor objections are promptly addressed, with necessary corrections made to the auditor's satisfaction.

Internal Audit: The internal audit is an ongoing process conducted biannually. A team of qualified internal auditors reviews all payments, receipts, journal vouchers, cash books, and ledger accounts on an accrual basis. The internal auditor evaluates objection settlements, action plan targets, and submits a report to management.

External Audit: An external auditor appointed by the college audits the financial statements at the end of each fiscal year. Qualified chartered accountants perform this audit. If irregularities are found, they are reported to the concerned department for rectification. If ignored, these issues are included in the auditor's report. The institution takes immediate corrective actions based on the report to resolve any issues.

The institution maintains stringent financial control procedures. The Finance Committee advises the Board of Governors on all financial matters. An annual budget is prepared at the beginning of the fiscal year, considering potential income and expenses (both recurring and non-recurring). Departmental budget provisions are based on inputs from the Heads of Departments. The Head of the Institution presents budget proposals to the Finance Committee and then to the Board of Governors for approval and ensures their proper implementation.

File Description	Document
Upload 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 Institutional Quality Assurance Council (IQAC) has been instrumental in institutionalizing quality assurance strategies and processes at various levels of an institution. The institution has an Academic and Administrative Audit system to evaluate the performance of the institution and to identify the issues that are to be attended to in order to improve the quality of teaching and research. The internal academic audit is conducted annually to monitor the activities of faculty, department and institute levels. The external audits are conducted meticulously once in every three academic years by a team of professors from other reputed institutes, aiming to identify the bottlenecks in the existing academic process and to identify the opportunities for academic & administrative reforms.

IQAC focuses on qualitative functioning of the teaching learning process by implementing Outcome Based Education in Institutes across all departments. In line with OBE, Program Specific Outcomes (PSOs) and Course Outcomes (COs) are defined. The faculties prepare course outcomes (COs) and map them with the program Outcomes (POs) and Program Specific Outcomes (PSOs) employing numeric weightages. Blooms-Taxonomy is attributed while formulating course outcomes and also preparing CA Examination question papers.

The primary objective of IQAC is to develop a system for conscious and consistent action for the improvement of the academic performance of the Institution towards excellence. The IQAC is committed to pursue its action plan, performance evaluation and implementing the strategies set up to assess teaching learning process & methodologies of operations. The course file preparation is mandatory by all faculties in the institute. The institute follows the uniform methodology of project allocation, monitoring and evaluation system to adopt project-based learning from 3rd semester onwards. Rubrics are set to evaluate the project and assignments. Question papers of Continuous Assessment are prepared in line with COs as per Bloom's Taxonomy which is reviewed by the departmental academic committee from time to time.

A strong online feedback system prevails in the institution to identify the gap in the teaching learning process. The filled-up feedback by the students is duly analysed by the members of the departmental academic committee, IQAC team and assess the deficiency of the teaching-learning process in the particular subject, if any. Accordingly, the institutions take measures and strategies for quality assurance & enhancements of teaching learning process as per the recommendations of IQAC.

There have been significant improvements in the institution in different academic & administrative activities during the last five years as given below:

1. Timely completion of academic activities by the faculty members.
2. Setting up of the question papers in line with the course outcome of the subject.
3. Engagement of more teachers in active research work.
4. Active participation of the teachers in Sports, Cultural and other activities.
5. Involvement of teachers to enhance the employability of the students.
6. Participation of the faculty members and students in different seminars & workshops in state / national / international level.
7. Active participation of infrastructural enhancement of the institution.
8. Establishing a strong mentoring system.

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

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	[View Document](#)
NIRF report, AAA report and details on follow up actions	[View Document](#)
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	[View Document](#)
Link to Minute of IQAC meetings, hosted on HEI website	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

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

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

Response:

The Institution is committed to fostering an ethical environment that prioritizes inclusivity and equal opportunities for all, irrespective of gender, caste, creed, race, color, language, religion, political belief, national or social origin, property, birth, or status. This inclusive ethos has resulted in approximately 30% female student enrollment over the past five academic years. The faculty and staff gender ratio is maintained at 70:30, with women occupying significant roles such as Head of Department, Innovation Council Convenor, IPR Cell Coordinator, Business Incubation Officer, and leaders of various clubs and professional bodies.

To promote gender equality, the Institution has established a Gender Sensitisation Committee responsible for implementing the Gender Sensitisation Policy. Regular Gender Audits by external experts are conducted to ensure adherence to gender-related regulations.

Facilities for Women on Campus

Gender sensitivity is ingrained in the institution's cultural fabric and its surrounding community, as demonstrated by the following facilities:

(a) Security Facilities

- Trained guards and housekeeping staff are stationed throughout the campus.
- Security checkpoints are present at all campus entry points.
- A comprehensive surveillance network, including a monitored control room and CCTV cameras, is in place.
- Members of the Anti-ragging Squad and Committee take turns ensuring security and discipline.
- Safety awareness campaigns for women are conducted through workshops, seminars, guest lectures, rallies, NSS camps, and student volunteers.
- Separate hostels for boys and girls with dedicated wardens are provided.

(b) Counselling

- A professional counselor is available three days a week for student counseling.
- A robust mentoring system supports students' academic, emotional, social, and intellectual development across all years and streams.
- The Internal Complaints Committee and Grievance Redressal Cell for staff and students

systematically address complaints, including anonymous submissions through a designated letter-box near the Principal's Office.

(c) Common Rooms

- Distinct common rooms are available for male and female students.
- Ladies' washrooms are equipped with sanitary napkin vending and disposal machines for hygienic disposal.

(d) Other Measures

- Courses such as Values and Ethics in Engineering Practice, Constitution of India, and Essence of Indian Knowledge Tradition are included in the curriculum to address issues of equality and gender sensitisation.
- In co-curricular activities, the Institution ensures equal opportunity and participation for both male and female students and teachers in sports and cultural programs.
- Female students are encouraged to apply for scholarships under AICTE Pragati and Government of West Bengal Kanyashree Schemes.
- Self-defense workshops for female students are organized by the NSS Unit.
- International Women's Day is celebrated annually with panel discussions and expert talks on gender equality.

(e) Community Outreach

- Free multi-specialty medical camps and awareness campaigns are organized in neighboring villages to educate rural women about health, hygiene, and the importance of child education.

Thus, the Institution ensures a gender-sensitive atmosphere, promoting equal opportunities and safety for all.

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

7.1.2

The Institution has facilities and initiatives for

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

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	[View Document](#)
Geo-tagged photographs/videos of the facilities.	[View Document](#)
Circulars and report of activities for the implementation of the initiatives document	[View Document](#)
Bills for the purchase of equipment's for the facilities created under this metric	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

7.1.3

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

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

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	[View Document](#)
Policy document on environment and energy usage Certificate from the auditing agency	[View Document](#)
Green audit/environmental audit report from recognized bodies	[View Document](#)
Certificates of the awards received from recognized agency (if any).	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance

and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Techno International New Town (TINT) embraces diversity and inclusivity through a variety of cultural events and initiatives that promote communal harmony and socio-economic inclusiveness. These efforts, coupled with sensitization programs, contribute to the holistic development and societal contribution of TINT's students and employees.

Cultural, Regional, and Linguistic Inclusiveness: TINT fosters diversity through a range of cultural events organised by various extra-curricular activity Clubs. These events serve as platforms where students and teachers can exhibit their talents notwithstanding linguistic or regional differences.

- Basanta Utsab, Qurbani, and Christmas Celebrations organised by Hridmajhare Club of Performing Arts feature performances in Bengali, Hindi, English, and even Arabic.

- Similarly, Litwits Literary Club organises poetry festivals, debates and elocution contests, encouraging participation in multiple languages.

- The Photography and Art Exhibitions by Aesthetica Art Club and TINT Photography Club celebrate the diverse cultural heritage of India.

- TINT Talkies promotes inclusivity by promoting film-making across socio-economic and regional boundaries.

- Events like Yagvik Annual Cultural Fest and Aarambh Freshers' Welcome provide opportunities for showcasing vernacular cultures, strengthening bonds among students from different socio-cultural backgrounds.

Promoting Communal Harmony: At TINT, festivals such as Saraswati Puja, Viswakarma Puja, Eid, and Christmas are celebrated with enthusiasm, embracing the beliefs and differences of the diverse community. Even during challenging times like the pandemic, TINT ensured active participation in these celebrations through virtual platforms, fostering a sense of unity and communal harmony among students and staff members.

Socio-economic Diversities: TINT demonstrates its commitment to inclusivity by providing assistance to students from economically disadvantaged backgrounds through dedicated scholarship schemes. Moreover, the institution collaborates with various NGOs, including CRY, Art of Living Organization and Lifeline Foundation, to extend support to marginalized sections of society. Activities such as slum development programs, literacy workshops, awareness campaigns on public health and hygiene, and free medical camps for the underprivileged are organized by the NSS Unit of the institution. Furthermore, initiatives like exhibition-cum-sale of handicraft items made by students and donation drives for flood and cyclone relief demonstrate TINT's efforts towards socio-economic inclusiveness.

Sensitization of Students and Employees:

- **Constitutional Obligations:** TINT emphasises the importance of constitutional values through activities like the celebration of Independence Day & Republic Day. Mandatory courses on the Indian Constitution and Essence of Indian Knowledge Tradition in the engineering curriculum contribute to students' understanding of constitutional ideals.
- **Fundamental Duties and Rights:** The institution conducts various activities, like webinars on constitutional rights and obligations and campaigns to promote a drug-free India aimed at instilling the values and responsibilities of good citizenship.
- **Social Responsibilities:** TINT undertakes several initiatives to cultivate a sense of social responsibility among its stakeholders. These include blood donation camps, slum development projects, promotion of social entrepreneurship, literacy campaigns, awareness programs on health and hygiene, tree plantation drives, donation of old books and essential items, and participation in Swachh Bharat Abhiyan. During COVID-19 pandemic, TINT organised Vaccination Camps with staff, students and alumni to offer voluntary help to the COVID-19 victims and their families.

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:   Holistic Development by Fostering Research Culture and Promoting Liberal Arts

Objective: The practice aims to foster breakthrough research and impact through strategic investments, develop major multidisciplinary programs aligned with institutional and societal needs, instil a research culture in students, and optimize solutions for economic outcomes. It also seeks to enhance students' cognitive, physical, social, and emotional well-being, nurturing responsible citizens with strong moral and ethical values.

Context: At TINT, we aim to establish a culture of innovation and change, enhance research and academic impact, and develop strategic partnerships with industry and top educational institutions. Engineering education necessitates continuous updates through research and literature surveys to bridge gaps between curriculum, industry, and societal needs. Participative learning, like Hackathons, motivates students. TINT's Research and Development Cell supports these goals.

Additionally, addressing lifestyle diseases, psychological issues, and ethical degradation among youth through extracurricular activities, social outreach, and sports is essential for holistic student development.

The Practice: According to the directive of the Academic Committee, the research projects fall under the purview of the Research & Development Cell and the Institute's Innovation Council (IIC). This practice involves:

- **Guidance and Scrutiny:** Student projects are scrutinized and guided, with measures suggested to develop them into viable research projects.
- **Collaboration and Publication:** Encouraging collaboration between teachers and students on research articles, sending deserving entries to recognized journals, and presenting papers at prestigious conferences.
- **Training and Competitions:** Organizing Short Term Training Programs, Workshops, and Project Competitions on emerging trends in science and technology.
- **Interdisciplinary Research:** Identifying key areas for interdisciplinary research based on industry and societal needs.
- **Funding Proposals:** Submitting project proposals and reports to bodies like DSIR, AICTE, DRDO, DST, MOE, and MSME to secure funding and grants.
- **Infrastructure and Research Ambience:** Suggesting improvements to infrastructural facilities for academic and sponsored research, and enhancing the research environment.
- **Mentorship for Competitions:** Providing guidance and mentorship for students participating in national-level project competitions like Smart India Hackathon.
- **Technical Networking:** Active student chapters of ACM, ISTE, IEI, and GDSC promote networking in technical subjects.
- **Technical Clubs:** Genesis Science & Technology Club and TINT Coding Club organize contests to keep students engaged in technical challenges and foster a competitive spirit.
- **Cultural Clubs:** Various cultural clubs organize events and competitions showcasing talents across linguistic, regional, and religious diversities.
- **Social Responsibility:** The NSS Unit actively conducts programs to instil social responsibility in students.

Evidence of Success: Collaborative research works and successes in national-level competitions like Smart India Hackathon demonstrate the effectiveness of the practice.

- Teams from TINT have been among the top 3 positions at SIH 2022 and 2023.
- TINT has hosted the SIH for Eastern Zone at the National level in 2022.
- Our students have won MSME Idea Challenge 3.0.
- Project from TINT was awarded Gold Medal at the Global Youth Invention and Innovation Fair 2023 at Bogor, Indonesia.

Additionally, cultural engagement and social responsibility have been fostered through various programmes and events. Free Medical Camps and Slum Development Progrmmes have been instrumental in fostering academic social responsibility among students and staff of TINT.

Problems Encountered:

Challenges include infrastructural limitations, financial constraints, and the need for continuous efforts to engage students in research activities. Balancing academic and extracurricular commitments remains a challenge. Additional funding is required for equipment and facilities.

Notes: The proactive Institute Management is allocating substantial funds for research infrastructure.

Collaboration with other institutions is expanding research resources. Students are encouraged to pursue diverse interests through various programs and contests.

Best Practice-2: Green Initiative: Tree Plantation and Ecological Measures

Objective: The practice aims to raise awareness of environmental issues among students, staff, and society, promote sustainable development, contribute to afforestation in urban areas, implement the 3 'R' policy (Reduce/Reuse/Recycle) on campus, and beautify areas for scenic enhancement.

Context: At TINT, we prioritize compassionate and mindful education. Our Green Initiative aims to cultivate eco-friendly practices, ensuring a clean, green, and plastic-free campus. Through collective efforts of students, staff, and faculty, we aim to create sustainable environment, conserving energy and minimizing waste. Engaging students in these initiatives fosters awareness and equips them with skills to address environmental challenges, crucial in tackling climate change.

The Practice: TINT implements a comprehensive Green Initiative through various programs:

- Collaborating with NKDA and Green for Life Foundation, afforestation projects at 2 locations in New Town have resulted to the plantation of near about 2000 trees planted by students and staff.
- Students receive university-awarded marks for planting trees, incentivizing green activity.
- On World Environment Day, joint campaigns by NSS Unit and IIC feature eco-friendly posters created by students.
- World Earth Day sees diverse activities like blood donation camps, tree planting, and poster competitions.
- A MOU with WWF provided 100 saplings for planting.
- Medicinal plant cultivation educates students on herbal properties.
- Plastic usage is prohibited, and solar energy powers a portion of campus electricity.
- Energy-efficient lighting and rainwater harvesting optimize resource use.
- Waste disposal involves organic and inorganic waste segregation.
- Regular green and energy audits ensure effective implementation of the Green Initiative.

Evidence of Success:

- Green for Life Foundation recognized TINT for planting over 1800 saplings at nearby locations outside the Campus.
- The campus boasts lush lawns and gardens where students nurture various plants under professional guidance.
- Increasing student participation in plantation and awareness programs is observed.
- Students gain knowledge of local flora and develop environmental awareness.
- TINT is a minimal-plastic-use zone.
- Solar energy meets 17-20% of the college's power needs.

Problems Encountered: Challenges faced during the Green Initiative practice include the need for long-term commitment, resources, and manpower; sourcing healthy saplings; motivating students due to

limited environmental awareness; and the high cost of plastic alternatives. Additionally, generating sufficient solar power to meet energy demands in the Institution remains a challenge.

Notes: Suggestions for future green initiatives include developing eco-friendly interior spaces, establishing vertical gardens, forming student-gardener teams, and organizing inter-departmental competitions based on green practices within the campus. TINT aims to extend its green ideology to the neighborhood and city, identifying and adopting "The TINT Tree" to gift to neighboring institutions and initiate green dialogues.

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:

Techno Internatinal New Town (TINT) is distinguished by its unwavering commitment to innovation and entrepreneurship, focusing on transforming scientific knowledge into marketable products and services that drive economic progress and societal well-being. TINT aims to build a sustainable ecosystem that fosters innovative thinking and entrepreneurial skills, encouraging students to explore new concepts and processes, leading to groundbreaking activities during their academic tenure.

Encouraging Entrepreneurial Success

In the past five years, **21 TINT graduates have become successful entrepreneurs**, opting to commercialize their innovative ideas despite lucrative job offers from multinational corporations. These graduates have created significant employment opportunities, demonstrating TINT's role in nurturing entrepreneurial spirit and providing essential support, such as mentorship, strategic guidance, and practical assistance in establishing startup ventures.

The Role of the Entrepreneurship Development Cell

Established in 2016, TINT's Entrepreneurship Development Cell (EDC) has been crucial in fostering an entrepreneurial mindset among students. The EDC **organized classes** featuring **case studies** and **practical exercises** designed to develop entrepreneurial attitudes. Additionally, the EDC hosted

seminars and expert talks on various aspects of startup ventures, giving students a comprehensive understanding of the entrepreneurial landscape. These activities are now integrated into the Institution Innovation Cell (IIC), enhancing their scope and impact.

Institution's Innovation Council (IIC): Formalizing Innovation and Entrepreneurship

TINT stands out in West Bengal for systematically formalizing its approach to innovation and entrepreneurship by adopting the National Innovation and Start-up Policy (NISP) 2019 for students and faculty. **TINT established the IIC in 2021** to cultivate a structured culture of innovation, positioning itself within a national network of institutions dedicated to promoting innovation and entrepreneurship. IIC-TINT regularly organizes **workshops** on entrepreneurship, Augmented Reality/Virtual Reality (AR/VR), Detailed Project Reports (DPR), Intellectual Property Rights (IPR), awareness programs, and motivational talks. **Successful alumni entrepreneurs** frequently share their experiences with current students, providing valuable insights and inspiration.

Showcasing Entrepreneurial Talent

A notable event demonstrating TINT's commitment to entrepreneurship are the **inter-college Business Idea Competitions organized annually** by IIC-TINT. Distinguished jury members evaluated and awarded the three best business ideas, which are then nominated to the TINT Incubation Cell. **Top five ideas are recommended for patenting** through the IPR Cell. TINT students have also **excelled in other competitions**, such as the Business Idea Competition organized by the All-India Management Association in February 2019, and **Industry Motivation Campaign** in collaboration with **MSME** in February 2021, which provided valuable information on financial aid for aspiring entrepreneurs.

Incubation and Pre-Incubation Support

TINT's Incubation and Pre-incubation Cells foster a culture of innovation and entrepreneurship among young minds, guiding them from idea generation to startup development. The **TINT Business Incubation Centre has supported six startup ventures**, which are now ready to enter the commercial market. This Centre encourages students and faculty with **innovative ideas to develop them into commercial products**, bridging the gap between academia and industry and offering support for patent applications.

S.N. Bose Centre for Pre-Incubation

The S.N. Bose Centre for Pre-Incubation at TINT plays a critical role in supporting ambitious and innovative entrepreneurs by transforming their ideas into minimum-viable products. This intensive program combines **business training**, **expert support**, **coaching**, and **mentoring** to accelerate the development of innovative ideas. Students and working professionals with startup aspirations or product ideas can participate in **live workshops** to **test, validate, and refine their business concepts**. They also receive **individualized support** from the incubation team to build their startups from scratch. Early-stage venture co-founders can qualify for the **IIMU Incubation Centre program**, enhancing their entrepreneurial journey.

Intellectual Property Rights (IPR) Cell

TINT's IPR Cell manages the institution's intellectual property activities, including patent, copyright, and design filings. The primary objective of the IPR Cell is to promote innovation by **providing protection to inventors**, enabling them to recover their research and development investments and benefit from their inventions.

KAPILA and NIPAM Collaborations

TINT registered with KAPILA (Kalam Program for IP Literacy and Awareness) on March 7, 2022, to access financial assistance for patent filing. KAPILA aims to promote intellectual property, innovations, and best practices in higher education institutions, establishing an **ecosystem that encourages systematic protection of new ideas, research, and innovations with national and global significance**. TINT collaborates with the National Intellectual Property Awareness Mission (NIPAM) to conduct **regular workshops on IPR, innovation, and entrepreneurship**.

Recognition and Achievements

TINT's emphasis on innovation and entrepreneurship has earned it recognition in the **Performance Band of the Atal Ranking of Institutions on Innovation Achievements (ARIIA)**, an initiative by the Ministry of Education, Government of India. Fourteen faculty members have been acknowledged as **Innovation Ambassadors** by AICTE and the Innovation Cell of the MoE, with several others undergoing Innovation Ambassador training.

Student Innovations and Awards

TINT students have received **awards and funding for their innovative projects and business ideas at various competitions**, including the **MSME Idea Competition**, **YUKTI Innovation Challenge**, **BNCCI Industrial Trade Fair**, **Global Youth Invention and Innovation Fair in Indonesia**, and the **Innovation Design and Entrepreneurship (IDE) Bootcamp** (Phase II) under AICTE. Since 2021, the IIC has recognized and uploaded **114 innovation ideas** to the **YUKTI National repository**, including **36 innovations/prototypes**. These innovations, offering **technical solutions to societal problems**, have the potential to turn into viable startup ventures.

Commitment to Innovation and Partnerships

TINT remains steadfast in its commitment to harnessing the **problem-solving abilities and entrepreneurial skills** of its students and faculty while promoting strong **intra- and inter-institutional partnerships**. In alignment with NISP and in coordination with AICTE and UGC policies, TINT is dedicated to building, streamlining, and strengthening the innovation and entrepreneurial ecosystem in its campus. Through these comprehensive efforts, TINT continues to be a beacon of innovation and entrepreneurship, **driving economic and social development forward**.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)
Any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

In addition to the information under the previous headlines, the Institute wants to share some additional information which is very much relevant and is delineated in the present chapter, categorically.

- Project and innovation

Techno International New Town (TINT) is dedicated to fostering a culture of research and multidisciplinary innovation under faculty mentorship. Guided by the IQAC and Academic Committee, the institute integrates academic projects into its Research & Development Cell and Institute's Innovation Council (IIC), promoting inter-disciplinary projects and facilitating national-level participation. As of 2022-23, TINT has secured ## funded projects amounting to INR ##/- and additional projects through government funding from agencies like DIST, MSME, and MIC (MoE). Students have excelled in national competitions such as Smart India Hackathon and Bengalathon, earning recognition and prizes.

- Research publication

Under policy framed by IQAC, the Research & Development Cell oversees and supports research activities, resulting in ## journal publications and ## international conference papers, including joint publications by students and faculty.

- Incubation and Entrepreneurship

Innovation and entrepreneurship define TINT's approach, with 21 graduates becoming successful entrepreneurs in the last 5 years. The Entrepreneurship Development Cell (EDC), operational since 2016, promotes these values. Aligning with the National Innovation and Start-up Policy (NISP) 2019, TINT's Institution's Innovation Council (IIC) was established in 2021, along with an Intellectual Property Rights (IPR) Cell to manage patents, copyrights, and designs. Recognized by MSME, TINT's Business Incubation Cell (BIC) supports six incubates.

- Consultancy Services

TINT also emphasizes consultancy projects to enhance industry collaboration and expose students to real-world projects, particularly in construction and home automation sectors.

- Green initiatives

Furthermore, TINT prioritizes sustainability through its Green Initiative, aiming for a campus that is clean, green, and plastic-free, while conserving energy and protecting biodiversity. This initiative is a collaborative effort involving students, staff, and faculty, reflecting TINT's commitment to eco-friendly practices and

responsible stewardship of the environment.

In summary, Techno International New Town (TINT) excels in research, innovation, entrepreneurship, consultancy, and sustainability, offering a comprehensive educational experience that prepares students for real-world challenges and societal responsibilities.

Concluding Remarks :

The institution has been dedicated to enhancing the quality of education since its establishment by emphasizing collaborative efforts. To achieve this goal, there has been a deliberate shift from a traditional teacher-focused approach to one that prioritizes students implementing OBE. The institution aims to drive impactful research and development through strategic investments, establish comprehensive interdisciplinary research that meet both institutional and societal needs, cultivate a culture of research among students, and optimize solutions for economic impact. This effort has resulted in a good number of Government funded project. Furthermore, it aims to improve students' cognitive, physical, social, and emotional well-being, nurturing responsible citizens with resilient moral values.

The Internal Quality Assurance Cell (IQAC) of Techno International New Town has devised a structured plan to advance the institution's development following National Education Policy 2020. This plan is designed to implement consistent actions that enhance both academic and administrative performance. The IQAC promotes a quality-oriented institutional environment by internalizing best practices and fostering a culture of quality improvement. It coordinates efforts across all stakeholders involved in the educational process to realize the institution's vision, mission, and objectives.

Through the persistent dedication of its team, students, and faculty, the college is steadfastly progressing towards its goal of delivering high-quality education.