



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

## **GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**

**GGSESTC, KANDRA (VILL), CHAS, BOKARO  
827013**

**[www.ggsestc.ac.in](http://www.ggsestc.ac.in)**

**SSR SUBMITTED DATE: 09-10-2024**

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**October 2024**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

Guru Gobind Singh Educational Society's Technical Campus was established in 2011 by Guru Gobind Singh Educational Society, Bokaro, is an acclaimed center of academic excellence for education in Engineering, Management, Application and Fashion, in the state of Jharkhand. It is approved by AICTE, New Delhi and affiliated to Jharkhand University of Technology (JUT), Ranchi. The college is one of the best engineering and management institution of Jharkhand. The college is known for its academic excellence, cultural activities, academic social responsibilities, MoUs, internships, placement, entrepreneurship development and student satisfaction. The serene campus of GGSESTC is sprawled over 12.595 acres of land and located on NH 18 in the urban vicinity of Bokaro district. The institution has residential campus for students, faculty and staffs. The campus life of GGSESTC is very vibrant and peaceful. The campus celebrates each and every festival of all communities with harmony and enjoyment. The students residing in the campus are provided delicious and healthy food by mess and canteen. The college was inaugurated by the then Honourable Chief Minister of Jharkhand and since then almost every month some distinguished personalities from every walk of life viz. academia, bureaucracy, entrepreneurs, literature, engineering, science, spiritual, social life, visits etc. to inspire students. Within a span of 12 years, the college has established its credentials as an institution of repute and is consistently working for quality improvement as evident by its ISO 9001:2015 Certification, Eat Right Campus certification, Appreciation and accolades from esteemed bodies like AICTE, NTA, District Administration, Indian Rotary Club, NIRDPR (Hyderabad), JUT (Ranchi), Institute Innovation Council (IIC), MoE, ISTE, New Delhi etc. The college has signed MoUs with leading industries and institutions like JIADA, Bokaro Region, BSL (A Unit of SAIL), ESL-Vedanta, ICAR-IIAB, ICAR-NISHA, Ranchi and many other industries and corporates for providing Internship opportunities to its students. The GGSES Technical Campus offers B.Tech – ME, CE, EEE, CSE, CSE(Data Science), CSE(Cyber Security), ECE and Fashion Technology; Management – BBA & MBA and Application – BCA courses. The institute distinctly received approvals from AICTE New Delhi to run B. Tech. degree for working professionals in three branches.

### **Vision**

To provide world-class education, training and research opportunities in fields of Technology Management and other disciplines.

GGSESTC has the vision and will to imbibe modern teaching methods and state of the art technology and infrastructure to bring world-class education to Jharkhand and the eastern region. The institute encourages its faculty members to undertake research and file for patents; as well as the students are supported and motivated to undertake innovative projects and participate/represent across national/state/university forums. The institute is meeting a commendable success and aspires to achieve new heights.

### **Mission**

To be centre of academic excellence and an ecosystem vehicle for aspiring technologists and entrepreneurs.

GGSESTC and its stakeholders inculcate together an environment of academic and innovative excellence to

achieve positive growth for all. The institute works in the direction of grooming and launching aspiring technologists and entrepreneurs from its stable of students, not only for the state but also for the country and the world. The institute has undertaken the mission to empower the local/other youth with employability through technical education and placement opportunities. In this way, the institute's mission converges with the New India Mission.

## **1.2 Strength, Weakness, Opportunity and Challenges(SWOC)**

### **Institutional Strength**

Governed by GGES which is a philanthropic, non-profit society with good financial and quality faculty members. Our society has an experience of more than 40 years in the field of education. All the faculty members of GGSESTC are qualified as per the norms of AICTE/UGC and possess good experience and APIs. Selection of faculty is on the basis of merit and faculty satisfaction level is high, hence faculty participation other than teaching is also very high.

1. Well-earned reputation, goodwill and credibility by parent society and institution.
2. Ideal location, with excellent road and railway connectivity.
3. Safe and secure environment
4. State of art infrastructure, lush green campus
5. Academically brilliant, experienced, diligent, committed and dedicated faculty and staff members.
6. Constant support from the Society
7. Rich central library with large number of books, e-books, Journals and DELNET facilities.
8. Good indoor and outdoor facilities.
9. Residential campus for Director, faculties, Staff, and students (boys and girls)
10. Visionary and foresighted management
11. Excellent placement
12. Scholarships based on merit cum means
13. Awards and appreciation letters
14. ISO certifications
15. Green practices
16. Located at industrial area in India

### **Institutional Weakness**

1. Inadequate commercialization of intellectual property
2. Less number of UGC care-listed publications

### **Institutional Opportunity**

- As the college is situated in the industrial belt of the country and state it can aspire for more numbers of MOUs with government departments, industries and PSUs to receive more opportunities for internships, placement and consultancy activities.
- Incorporating multidisciplinary approach in professional education for holistic professional higher education in the Indian context.

- Enhancing internship opportunities and experiential learning up to 50 %.
- To become a state role model in the strategic implementation of National Education Policy 2020.
- To enhance international connections, collaboration and networking for research & teaching especially for implementing dual degree programs in niche areas.
- Enhancing cluster-based interdisciplinary/multidisciplinary programs.
- Creating synergy between school education and higher education for bridging the gap between national school curriculum framework and higher education framework.
- Creating a strong entrepreneurial and start-up ecosystem.

### **Institutional Challenge**

- GGSESTC is situated in Bokaro, an aspirational district of India, the college requires adequate and sustained financial support from funding agencies.
- Although the institution is situated in one of the most industrialized zones of the country but most of the industries belong to the public sector, where recruitment process is slow, hence after passing students are employed in the other parts of the country in place of Bokaro.
- The institute is facing challenges in the area of alumni association, as maximum number of students are placed outside the state.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

GGSESTC is affiliated to JUT and previously it was affiliated to VBU. An academic calendar is prepared before each semester begins, adhering to the guidelines set forth by the University. There are established Academic Councils at the college level and academic oversight committees at the departmental level to enhance curriculum delivery. Each faculty member maintains a course file for subjects, which includes individual timetables, syllabi, lesson plans and question papers from the past three years, important notes in both hard copy and digital formats, video class test papers, mid-semester exams, and innovative resources. Departments organize industrial visits in collaboration with the Industry Institute Interaction Cell. Periodic class tests, two mid-semester exams, and improvement tests are conducted, followed by university examinations. These records are audited at the end of each semester by an audit team appointed by the Academic Council. Audit teams commend efforts, identify gaps, and offer recommendations for improvement where needed. Our institute is a local chapter of NPTEL. Additionally, students have opportunities to showcase their co-curricular activities through participation in Science Exhibitions held at the institute. The institution also provides GATE coaching and various soft skills training by external experts. Industrial visits and seminars are organized periodically. The college has implemented several personality development programs through the Skill Development Cell to enhance student employability. All departments include courses in their curricula addressing cross-cutting issues such as gender, environment and sustainability, human values, and professional ethics. The institute organizes various programs and projects to sharpen students' awareness of these issues. It encourages both male and female students to participate in annual sports and diverse cultural activities. The institute offers common medical facilities for all students and has established a Women Empowerment Cell/ Internal Complaints Committees are set up to address grievances and provide solutions within a specified time frame. The institute conducts various programs focusing on women's safety, health check-ups, personality development, and seminars for both male and female students. Women's Day is celebrated annually. Each year, feedback is collected from final-year students and faculty members regarding academic performance and curriculum to

facilitate continuous improvement based on their suggestions.

### **Teaching-learning and Evaluation**

The institute primarily aims at empowering financially weak and meritorious students by providing value-based professional engineering/management education. Innovative, effective, and efficient teaching-learning processes and methodologies are implemented to attain threshold excellence in academics. The institution has a broad spectrum of programs and courses approved by AICTE New Delhi and affiliated with JUT, Ranchi. The college provides special attention to slow learners. Based on MST-I for identifying slow learners and advanced learners their needs are scattered as per their specific requirement, based on JEE Mains Result on a merit basis. Students are admitted through Govt. regulations (JCECEB). The student diversity is rich as students from other states and rural and urban areas get admission in the college. The teaching methodology is innovative and the learning experience is enriched through ICT-enabled, experimental, and participative learning methods. Students are encouraged to enroll in MOOCs through SWAYAM and NPTEL to enhance their skills as per global requirements. The performance of the students in the university exam is exceptionally good. The institution maintains complete transparency and impartiality in evaluation methods and examination. The grievances of students are redressed properly. Internal assessment is done as per the university guidelines. The feedback from students helps in maintaining fair, transparent teaching, learning, and evaluation processes. The college has adopted outcome-based education. The program outcomes (POs) and Course Outcomes (COs) are displayed on the departmental notice board and college website. Mentor and Mentee system, remedial, and bridge classes cover the existing need well as fulfill the academic, psychological, and general counseling needs. Over every 20 students, there is a mentor faculty appointed.

### **Research, Innovations and Extension**

GGSESTC has a policy aimed at fostering research and innovation by enhancing research infrastructure, updating instrumentation, offering support for intellectual property rights (IPR) and there is a Research Advisory Committee (RAC) formed and headed by PhD faculties of college. As a self-financed institution, it allocates seed money for minor research projects and offers various incentives and awards to encourage faculty research and innovation. The Research & Development Cell oversees the research environment, which has seen significant improvement over the past five years through the integration of translational research, innovation, and the start-up ecosystem. College is conducting various awareness programs for new entrepreneurship development supported by Micro, Small and Medium Enterprises - MSME. Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs) for science and technological temperament development among the society.

Over 40% of the faculty members are either PhD or pursuing, till the date Nine (9) patents have been granted. The institute is equipped with a fully functional media laboratory and moot court to aid academic activities. GGSESTC has established a comprehensive R&D ecosystem that supports a start-up culture, integrating an Innovation Incubation Center, Skill Development Cell, and IPR Cell. This approach has led to increased startups, patents, research publications, and consultancy projects. Every year the institute organized National level conference to promote research work. The Research & Development Cell (RDC), Technology Enabling Centre (TEC), Incubation Center, Innovation Council, IPR Cell, Industry Interface Cell, and Skill Development Cell work together.

NSS organizes awareness camp in nearby 5 adopted villages and conducted awareness campaigning activities were carried out by NSS volunteers addressing social issues which include cleanliness, tree plantation, and water conservation. The Extension Activities under academic social responsibilities were conducted on a regular basis by the college with the help of its various clubs, NSS, Green Army, UBA for these activities were widely appreciated and got published by media (Like Prabhat Khabar, Hindustan, Dainik Jagran, 22 Scope etc).

### **Infrastructure and Learning Resources**

The college has 12.595-acres green campus with a built-up area of 29862 sq.m. This comprises classrooms, laboratories, and workshops - all equipped with modern amenities. The college uses various teaching aids, interactive panels, PowerPoint presentations, DELNET and e-journals, to create engaging learning experiences. The college campus is Wi-Fi enabled, has a large gymnasium, indoor and outdoor sports facilities, rose garden, solar power system, RO water purifiers, a rainwater harvesting system, a canteen, and sanitation facilities, along with ramp & lift for the physically challenged. There is a diverse set of ICT tools to communicate, create, disseminate, store, and manage information. Other facilities such as UPS support, generators, an auditorium, a seminar hall and an open theatre are there to conduct all the cultural/social activities.

The Central Library is equipped with over 18500 books and 16600 e-books. The library has National and international journals from different branches of B. Tech and MBA. The library is automated with Integrated Library Management System Software (ILMS) provided by WIPENEX IT Pvt. Ltd. It has a membership in the DELNET and EBSCO Information Services for E-Books facility. Many technical books have also been donated by eminent personalities. Visitor registers are maintained in the library separately for students and staff.

The Institute has constituted an IT cell. Adequate number of computers, Laptops, printers and scanners are available. The college has an UPS system for un-interrupted power supply. Various Softwares are available for academic uses, Plagiarism checker X, DELNET service, ORAELL and a fully computerized library system. Classes are equipped with LCD projectors and internet connectivity for online teaching & NPTEL. The campus has a structured LAN facility and its whole network is in 3 tiers. Institution has the internet speed of 500 MBPS, 1:1 connectivity and 300 VLANs.

The Institute does periodical maintenance and upkeep of the infrastructure, laboratory equipment, computers, electronic gadgets and so on. For upkeep and maintenance, the service of an electrician, a plumber and other technicians, sanitation workers for cleanliness are available in the Institute. Caretaker, Maintenance Engineer and continuous monitoring by the higher authorities help in all-round upkeep of all infrastructures.

### **Student Support and Progression**

GGSESTC has a very good student support and progression system for holistic development of every student. The institute-assessed Insurance coverage is also given to all the students. The institute has established a process for the students to get financial support systems like the Pragati Scholarship (Central Government), State Government Scholarship, and Manki Munda Scholarship (For General Category Girls Students). The institute has well-placed provisions for the Scholarship Aptitude Test (SAT) and GGES Scholarship, which are designed to support students who are economically or financially weak and meritorious. The institute also provides platforms for students to voice their concerns or grievances through appropriate redressal mechanisms. The institute organizes workshops, soft-skills training, language labs, personality development programs, Internship programs, and training programs. The institute has a robust student support and progression system

to provide support to students for placements, skill development, career counselling, free coaching for higher education and competitive examinations through the Training and Placement Cell, Registered MSME GGSESTC IAS Academy, GATE Classes. Placement Cell maintains a strong relationship with the industry and supports students in placement. In-house training provisions with TP (Training Provider) No. – 131357 by the National Skill Development Corporation (NSDC). Students interested in pursuing higher studies are provided guidance for competitive examinations, viz. GATE, PSC etc. The weak students are offered remedial coaching to compete with others in the placement selection process. The institute has a well-defined student mentoring mentor-mentee system to help each student in taking right decisions for their academic and personal growth. The institute has active Student Clubs like Cultural, Technical, Sports, Green Army and Literary clubs. These clubs encourage maximum participation of students to provide an opportunity to exhibit the talent of the students. Students are encouraged to take part in games/sports. The active alumni association has fostered a strong relationship with the institute through its annual meetings and frequent interactions.

### **Governance, Leadership and Management**

Guru Gobind Singh Educational Society's Technical Campus (GGSESTC) began its journey in 2011 with the vision of providing quality and affordable education. The institute's governance reflects effective leadership aligned with its vision and mission. GGSESTC collaborates with district administration and other organizations, receiving appreciation from bodies like AICTE and the Election Commission of India. To ensure quality, IQAC has developed a perspective plan aligned with NEP 2020, implementing workshops and multidisciplinary courses. The institute promotes decentralization through a Board of Governors, Academic Council, and various administrative committees, working towards goals like NIRF ranking and autonomous status.

GGSESTC's strategic plan is divided into immediate, medium, and long-term goals. The immediate goals focus on expansion, while the medium-term aims for autonomy, and the long-term goal is to become a world-class institution. The institution's bodies operate transparently and policies on recruitment and service rules align with AICTE and JUT norms. Continuous professional development is prioritized through upgrading digital infrastructure and capacity-building initiatives. A dedicated monitoring mechanism ensures the effective deployment of institutional plans.

The institution maintains a 360-degree performance appraisal system for teaching and non-teaching staff, emphasizing aspects like teaching performance, research contributions, and student satisfaction. Various welfare measures are in place, such as concessional accommodation, provident fund, gratuity, ESI, financial support for professional development, academic leave, support for pursuing Ph.D. studies, etc. GGSESTC ensures a positive work environment and growth opportunities for its staff.

Financial management at GGSESTC is transparent, with major revenue generated from student fees, hostel fees, and infrastructure rentals. Funds are utilized for staff salaries, scholarships, infrastructure development, and academic resources. Budget preparation involves stakeholder consultation, and financial audits are conducted regularly to ensure accountability.

IQAC, established in 2018, plays a crucial role in quality enhancement, conducts regular meetings, facilitates regular academic audits, implementing feedback systems, and through collaborative initiatives- MOUs, national conferences, and workshops, IQAC ensures the continuous enhancement of academic and administrative excellence at GGSESTC. It has successfully led initiatives like ISO 9001:2015 certification and NIRF participation, driving continuous improvements.

## **Institutional Values and Best Practices**

Our college maintains gender equity in all departments. Both girls and boys are given equal opportunity to participate in different activities. Our college gets gender audits conducted by social organization of national presence and repute. The college has solar panels and energy-efficient LED bulbs as alternate sources of energy and energy conservation. For E-waste management, we have signed a MoU with Hulladek Private Limited. We dispose solid waste properly to scrap dealers. We have bunds as a rechargeable pit for water conservation. We have a proper clean and green campus policy. For disabled friendly, we have lifts, ramps, and wheelchairs that provide ease to them in the college campus. Through various activities, we maintain environmental and energy initiatives and get ourselves audited by an external auditing agency. Also, in association with local bodies, we are organizing beyond campus promotional activities like cleanliness drives, plantation drives, and awareness drives. We are taking initiative towards our constitutional obligation through various activities like celebrating commemoration days of great personalities, celebrating and participating in festivals of all religions/communities and participating in voter awareness program. For all-round development of the college, we include many best practices: 1) Mean cum merit-based scholarship scheme for inclusive education 2) Social welfare program through extension activities. Through these best practices, many students from poor financial backgrounds get financial support to complete their courses and through extension activities, students participate in campus and beyond campus activities to promote social welfare. Programs like the Fit India Movement, The Swadesi Jagran Sangosthi was organized. Our college maintains its distinctiveness from other colleges in many dimensions through the IIGR (Institute Industry Governance and Research) interface. We have signed a MoU with JIADA for training and counselling assistance. Our faculty visited Vedanta/Electrosteel to provide training on industrial safety, we provided lab consultancy to Sundaram Steel Pvt. Ltd. and Ray Construction. In the research area and faculty exchange program, we have received funds for ATAL FDP, and our faculty have visited a college of national importance (ICAR-IIAB) as guest faculty. Students from ICAR-IIAB and other schools visit our college for lab and other technical exposure.



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS
Address	GGSESTC, Kandra (Vill), Chas, Bokaro
City	Bokaro
State	Jharkhand
Pin	827013
Website	<a href="http://www.ggsestc.ac.in">www.ggsestc.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Director	Priyadarshi Jaruhar	06542-265293	9822732264	06542-265346	info@ggsestc.ac.in
IQAC / CIQA coordinator	Manojit De	06542-265373	9340639505	06542-265346	iqac.ggsestc@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Jharkhand	Jharkhand University Of Technology	<a href="#">View Document</a>

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	<a href="#">View Document</a>	31-05-2024	12	Yearly approval

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?	Yes
If yes, name of the agency	AICTE
Date of recognition	29-06-2022

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	GGSESTC, Kandra (Vill), Chas, Bokaro	Rural	12.595	29861.81

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BTech,Mechanical Engineering,Mechanical Engineering	48	Ten plus two with PCM	English	60	24
UG	BTech,Civil Engineering,Civil Engineering	48	Ten plus two with PCM	English	60	27
UG	BTech,Electrical And Electronics Engineering,Electrical and Electronics Engineering	48	Ten plus two with PCM	English	30	13
UG	BTech,Computer Science And Engineering,Computer Science and Engineering	48	Ten plus two with PCM	English	66	63
UG	BTech,Electronics And Communication Engineering,Electronics and Communication Engineering	48	Ten plus two with PCM	English	30	11
UG	BTech,Fashion Technology,Fashion Technology	48	Ten plus two with PCM	English	30	0
UG	BTech,Computer Science And	48	Ten plus two with PCM	English	30	12

	Engineering Cyber Security, Computer Science and Engineering Cyber Security					
UG	BTech,Computer Science And Engineering Data Science, Computer Science and Engineering Data Science	48	Ten plus two with PCM	English	60	25
UG	BBA,Bba,	36	Ten plus two	English	60	60
UG	BCA,Bca,	36	Ten plus two	English	60	22
UG	BTech,Mechanical Engineering Working Professional,	48	Diploma	English	30	30
UG	BTech,Civil Engineering Working Professional,	48	Diploma	English	30	17
UG	BTech,Electrical And Electronics Engineering Working Professional,	48	Diploma	English	30	25
PG	MBA,Management,	24	Graduation	English	60	60

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	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	4				6				63			
Recruited	4	0	0	4	6	0	0	6	50	13	0	63
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				11
Recruited	9	2	0	11
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				9
Recruited	8	1	0	9
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	0	0	5	0	0	2	1	0	12
M.Phil.	0	0	0	0	0	0	1	2	0	3
PG	0	0	0	1	0	0	47	10	0	58
UG	0	0	0	0	0	0	0	0	0	0

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

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	79	10	0	0	89
	Female	36	4	0	0	40
	Others	0	0	0	0	0
PG	Male	34	3	0	0	37
	Female	21	1	0	0	22
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	12	9	15	12
	Female	6	3	10	3
	Others	0	0	0	0
ST	Male	5	8	6	13
	Female	4	3	3	0
	Others	0	0	0	0
OBC	Male	80	61	79	149
	Female	32	16	26	26
	Others	0	0	0	0
General	Male	56	41	66	65
	Female	19	13	14	32
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		214	154	219	300

### Institutional preparedness for NEP



1. Multidisciplinary/interdisciplinary:	<p>As per the NEP guidelines, curriculum structure has been designed by JUT, incorporating multidisciplinary education, optimal learning environment and learner centric approach. To this effect, wider consultations were held through a number of workshops and conferences to create awareness and sensitization about NEP-2020 implementation. A detailed strategic plan for NEP implementation has been chalked out and phase wise implementation has resulted in to multidisciplinary ecosystem. All UG and PG programmes have been restructured for multidisciplinary options and the Curriculum have been revised to incorporate outcome-based Program Objectives (POs), Program Specific Objectives (PSOs) and Curriculum Objectives (COs). All Undergraduate programs are restructured with modified LOCF and internship. Extra-Curricular activities including NSS, NCC, Yoga, sports, cultural activities, are brought into Curriculum. The college offers credits for extension activities. College has also developed a startup ecosystem by integrating the Incubation Centre, Skill development cell, Innovation council under RAC Cell. Teaching learning process is transformed in blended mode with emphasis on opting for online MOOC, NPTEL courses. The college understands that today the focus is on addressing a problem of social, economic, business, climate, or industrial relevance and the challenge is to assimilate knowledge and skill sets from different domains of knowledge to provide an interdisciplinary or transdisciplinary solution. The college has mandated that it will itself fund several research projects that were interdisciplinary in character. The college has allowed entry of individuals from different backgrounds in its programs once they have completed certain bridge courses/remedial classes and are deemed eligible for the courses.</p>
2. Academic bank of credits (ABC):	<p>The National Education Policy (NEP) 2020 and the Academic Bank of Credits (ABC) share the objective of transforming higher education in India. NEP 2020 aims to bring comprehensive reforms, emphasizing multidisciplinary learning, skill development, and flexibility in curriculum. ABC is a credit storing and transferring system that allows students to accumulate and transfer credits earned from different institutions/platforms, enabling interdisciplinary learning and multiple entry-exit points. As per JUT,</p>

college also mandate the registration of students to ABC portal. NEP 2020 acknowledges the importance of such credit-based systems and the integration of ABC aligns with its vision of promoting lifelong learning and digital education. Together, NEP 2020 and ABC offer a promising approach to modernizing higher education, empowering students, and fostering a dynamic learning environment. It is a student-centric platform that facilitates seamless curriculum framework flexibility and encourages interdisciplinary or multidisciplinary academic mobility among Higher Education Institutions (HEIs). With an efficient credit transfer mechanism, it empowers students to design their learning path, achieve degrees, diplomas, or postgraduate qualifications through multiple entry exit points, and embrace anytime, anywhere, and any level learning. The college commitment to fostering academic flexibility and student-centric learning opportunities is evident through its adoption of the Academic Bank of Credits (ABC) concept. GGSESTC has effectively implemented ABC. The college has proactively encouraged registration through various means, including notifications, emails, and ABC posters, resulting in 100% student registration on ABC portal. 4 years degree programmes curriculum Framework has been designed covering all dimensions of education. The Sports, NCC, NSS, Yoga are made the integral part of programmes. Ability Enhancement Courses (AEC) are offered by college for all the students to provide flexibility. Skill Enhancement Courses (SEC) have been incorporated including AI/ML to increase the skill and innovation. Compulsory internships/seminars and other forms of experiential learning methods are included in all programs. Multiple Entry-Exit Options (at Level 5, Level 6 and Level 7) are provided with credit transfer from, NPTEL and ABC Several Value Added Courses (VAC) have been started to supplement students' interest beyond curriculum. UGC regulation for ABC and multiple entry / exit systems are adopted and Necessary restructuring of relevant ordinances has been done for credit transfer under ABC, Course registration, etc. College got registered in ABC and all students were made aware and motivated to get registered on ABC portal, examination forms are also redesigned to accommodate ABC registration id. Necessary

	<p>statutory provisions for the implementations have been incorporated. The college's proactive approach and commitment to enhancing the learning experience through the ABC demonstrate its dedication to providing students with greater flexibility and opportunities for a well-rounded education.</p>
<p>3. Skill development:</p>	<p>The National Education Policy (NEP) 2020 places significant emphasis on skill development as a core aspect of its comprehensive reforms. The policy envisions equipping students with practical skills and competencies that are essential for thriving in the modern world. By focusing on skill development, NEP 2020 aims to create a workforce that is well-prepared to tackle the challenges of the 21st century and contribute effectively to the nation's development. In alignment with the vision of AtmaNirbhar Bharat, India seeks to become a global manufacturing hub and achieve a USD 5 trillion economy. To realize this goal, sustained double-digit growth in the manufacturing sector is crucial. This necessitates manufacturing companies to be an integral part of global supply chains, possess core competencies, and embrace cutting-edge technology. This initiative seeks to provide earning opportunities to students right from their entry into the college, facilitating real-life experiences, and offering skill and capacity-building opportunities. The college's dedication to skill development is evident through its major and successful initiatives, designed to empower students with practical knowledge and hands-on experience. Few of such initiative involve the production of various valuable products. These activities not only provide students with valuable insights into sustainable practices but also foster an entrepreneurial spirit as they learn to create marketable products. By aligning the curriculum with industry needs, the University ensures that its graduates are well-equipped to pursue diverse and rewarding career pathways. College has also introduced a comprehensive range of new Ability Enhancement Courses (AECs) and Skill Enhancement Courses (SECs) for undergraduate programs. These courses cover a wide spectrum of disciplines and areas, ranging from technical skills to soft skills, nurturing holistic skills in students. Through these skill development initiatives, the</p>

	<p>college not only equips its students with practical expertise but also fosters an environment of experiential learning and innovation. By providing opportunities for hands-on application of knowledge, students gain a deeper understanding of theoretical concepts and are better prepared for real-world scenarios. Overall, the college's commitment to skill development is commendable, as it strives to produce graduates who are not only academically competent but also skilled, adaptable, and ready to contribute positively to society. By embracing a proactive approach to skill development and continuous improvement, the college sets a precedent for other institutions, showcasing the transformative impact of integrating practical learning experiences into the educational journey of its students.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The National Education Policy (NEP- 2020) recognizes India's traditional knowledge's richness and diversity, aiming to preserve and promote it at all education levels. It seeks to revitalize various aspects of Indian knowledge fostering a deeper understanding of India's cultural roots and contributions. The policy encourages incorporating local and indigenous knowledge in teaching, promoting a holistic and inclusive approach to education. NEP 2020 advocates for institutions and centers focused on traditional Indian knowledge, serving as repositories and promoting research. By integrating Indian knowledge systems into the education system, NEP 2020 aims to instill a sense of pride and appreciation for India's cultural heritage among learners. This integration also serves as a means to promote innovation, creativity, and critical thinking, drawing inspiration from traditional knowledge to address contemporary challenges. The college has taken significant strides towards enhancing the undergraduate programs by introducing several value-added courses from ancient Indian knowledge. These innovative course serve to revive and integrate traditional Indian wisdom into the contemporary education system. To foster holistic personality development among students, the college encourages participation in a diverse range of activities. Integrating the Indian knowledge system into the curriculum is a pivotal aspect of the college's vision. Each course in the degree program includes subject-specific Indian values, culture, history, and origins, ensuring that learners gain a</p>

	<p>deep appreciation of their cultural heritage. With the objective of fostering a sense of nationalistic fervor, the college aims to instill "Bharat Bodh" in every learner through ancient Indian knowledge. This approach fosters a deep-rooted pride in Indian culture and traditions, creating socially responsible and patriotic citizens. The program envisions "Man making Nation Building" by nurturing learners in an ecosystem which is Bharatiya in nature, i.e. rooted in Indian values and equipped with skills relevant to the 21st century. Successful entrepreneurs, industrialists, academic leaders, and an appropriate ecosystem play crucial roles in the success of this scheme. College has undertaken serious deliberations in collaboration with IKS division of Ministry of Education In the form of IKS workshop In conclusion, the college commitment to integrating ancient Indian knowledge, promoting holistic personality development, and fostering self-reliance aligns with the spirit of the National Education Policy (NEP) 2020. These endeavors aim to produce well-rounded individuals who are proud of their cultural heritage, equipped with relevant skills, and poised to contribute to the nation's growth and development.</p>
5. Focus on Outcome based education (OBE):	<p>The National Education Policy (NEP) 2020 is a transformative reform in India's education system, centered on outcome-based education (OBE). OBE shifts the focus from rote learning to a student-centric approach, emphasizing clear and measurable learning outcomes at all educational levels. This learner-driven approach promotes continuous evaluation and fosters 21st-century skills like critical thinking and problem-solving. The college has adopted Outcome-Based Education (OBE) as a fundamental approach to curriculum design, teaching methodologies and innovative assessment. To implement OBE successfully, the college has undertaken a comprehensive redesign of the curriculum. Graduate attributes have been defined and accordingly learning outcomes have been framed. Accordingly, the program outcomes and course outcomes are designed. By defining clear learning outcomes, the curriculum becomes more focused and aligned with the desired educational objectives. Program outcomes and course outcomes are mapped. Accordingly the courses are unitized and the question papers are designed to evaluate the attainment of various</p>

outcomes and attributes. Extensive and comprehensive raining programs have been meticulously designed to equip teachers with the necessary knowledge and skills to effectively align their courses with the identified learning outcomes. These training programs go beyond traditional pedagogical approaches, delving into the core principles of OBE and its application in the classroom. Educators are introduced to various instructional strategies and assessment techniques that facilitate the achievement of specific learning outcomes. Faculty members are encouraged to incorporate real-world applications, case studies, and problem-solving exercises into their teaching, providing students with opportunities to apply their knowledge in authentic contexts. Moreover, the training equips educators with tools to promote active learning and collaboration among students. They learn how to facilitate group discussions, debates, and project-based activities that encourage students to take ownership of their learning journey. This learner centered approach nurtures a sense of responsibility and curiosity, driving students to explore topics in-depth and develop a deeper understanding of the subject matter. In tandem with the OBE framework, the college has reevaluated its assessment practices to align them with the intended learning outcomes. Faculty members are encouraged to design assessments that directly measure students' achievement of the desired competencies. This shift in assessment practices promotes a more holistic evaluation of learners' progress, moving away from rote memorization to a focus on practical application and critical thinking. The link between assessments and learning outcomes also enables educators to provide timely and constructive feedback to students. This feedback serves as a valuable tool for both students and teachers, facilitating a deeper understanding of strengths and areas for improvement. Consequently, students are better equipped to monitor their own progress and make informed decisions about their learning strategies. Through the successful implementation of Outcome-Based Education, the college not only enhances the overall quality of education but also ensures that its graduates are well-prepared to excel in their chosen careers and contribute meaningfully to society. This learner-centered approach reflects the college's

	<p>commitment to providing a transformative educational experience that prepares students for the complexities of the modern world and fosters lifelong learning and personal growth.</p>
<p>6. Distance education/online education:</p>	<p>The college has wholeheartedly embraced online education as a transformative tool to enhance learning experiences for its students. Through platforms like Google Classroom, the institution has seamlessly transitioned to a digital environment, creating a dynamic and interactive virtual classroom. To enrich the online learning process high-quality video contents are being developed. These instructional videos cater to various subjects and topics, making complex concepts more accessible to students. The integration of multimedia elements further enhances the effectiveness of virtual learning. In recognition of the crucial role of technology in online education, the college has made substantial improvements to its support infrastructure. Robust Wi-Fi connectivity ensures uninterrupted access to online resources, enabling students to participate in virtual classes and engage in independent research without connectivity hurdles. The college's commitment to facilitating extensive digital resources is evident through its digital library. Students can access a vast array of e-books, research papers, journals, and other online academic materials, fostering self-directed learning and exploration beyond the traditional classroom. Moreover, the college has embraced the concept of virtual resource sharing and study groups. Through collaborative online platforms, students can share study materials, collaborate on group assignments, and engage in productive discussions, breaking the barriers of physical proximity and creating a vibrant online learning community. A core focus of the college's approach to online education is to enable digital competence among students. Students are encouraged to explore digital tools, analyze information critically, and develop a discerning approach towards online resources. The college has embraced technology-based education platforms like, MOOC, SWAYAM, and NPTEL to optimize learning experiences. Technology enabled learning and capacity-building initiatives aim to improve teaching, learning, and evaluation methods. The university has also invested in advanced hardware and software to</p>

facilitate teacher preparation, professional development, and streamline administrative processes. Blending traditional teaching with online methods is encouraged, especially in undergraduate programs. Faculties actively participate in the Mentor-Mentee program, Faculty Development Programs (FDP), and Quality Improvement Programs (QIP) related to NEP 2020. In conclusion, the college's embrace of online education, through Google Classroom, video content development, multimedia integration, and robust support infrastructure, reflects its dedication to providing a cutting-edge and inclusive learning environment. By leveraging online resources, virtual sharing, and study groups, the institution creates an engaging and collaborative learning community. Furthermore, the college's emphasis on enabling digital competence equips students with essential skills to navigate the digital landscape with confidence and adaptability.

### Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>The Electoral Literacy Club (ELC) has been set up in college on 17.11.2021 with 3 faculties and 100 student members.</p>
<p>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?</p>	<p>Yes, the college already appointed students' coordinator and faculty coordinator. ELC is functional and it is of representative character. Girls and Boys of diversity groups are actively involved. NSS students are actively participating in ELCs also.</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>The college, GGSESTC and students made a film (Ek Mat) on voter awareness. Various voter registration drive to assist the district Election administration were supported by the institute. The district administration Bokaro provided the appreciation letter for this on 23.02.2022. The college received the FIRST PRIZE on the occasion of National Voter's Day 2024 from the honorable Deputy Commissioner and District Electoral Officer Bokaro.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research</p>	<p>Students of GGSESTC undertake various awareness drives like, Nukkad Natak, Poster painting, Poems,</p>



<p>projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>Slogan Writing and Quiz related to the democratic value of our nation and a fair electoral process. The NSS volunteers along with ELC student members were actively engaged in these events. More than 30 students of the college were awarded prizes for their original and creative contribution.</p>
<p>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.</p>	<p>The college organized camps with the help of ELC and local village level Voting officer. The ELC members encouraged for the first time voters, particularly for Woman's at Kandra and other nearby villages.</p>

## 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
626	520	618	654	835

File Description	Document
Upload Supporting Document	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

### 2 Teachers

#### 2.1

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

Response: 192

File Description	Document
Upload Supporting Document	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 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
63	68	81	99	116

### 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
116.544	84.237	95.951	213.398	219.031

File Description	Document
Upload Supporting Document	<a href="#">View Document</a>

## 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:**

GGSESTC is affiliated to JUT and previously it was affiliated to VBU. Syllabus is provided by JUT. A comprehensive academic calendar is prepared before the start of each semester as per the guidelines of the academic calendar provided by the university. The college has a very robust lecture delivery system. It has sufficient number of rooms and seating arrangements for the students and maintains an adequate faculty and student ratio as per the regulatory body. The theory and practical lectures are delivered according to the timetable prepared by department and moderated by the Dean Academics and Professors in charge and finally approved by the Director. In case of the absence of faculty members due to personal or official reasons, lecture loads are adjusted by other faculty members and Dean Academics and Professor in charge supervises this. There are duly formed Academic Councils at the college level and academic monitoring committees at the departmental level for better curriculum delivery. A What'sApp group of GGSESTC Academics is formed for better connectivity to students and faculty. The Class Representatives (CRs) as a part of the Students Council also give suggestions to the respective head of the department curriculum delivery.

Every faculty member of institute is having course file of respective subjects which contains individual timetables, syllabus, lesson plan, question papers from previous 3 years, important notes made by him in hard and soft copy, video lecture contents, quiz questions, class test question paper, mid semester question, innovative material.

**Effective course delivery** is ensured by organizing expert and guest lectures for delivering a specific topic from academia and industry from time to time. Industrial visits are also organized by the individual department in consultation with the Industry Institute Interaction cell. Project work is continuously monitored by weekly presentations by the students. Remedial classes, surprise class tests and short video lectures are arranged for slow learners.

The institute has a well set up laboratories and regular maintenance of labs is also conducted. As soon as classes start at the beginning of the semester, records of lectures, tutorials and attendance are maintained. Periodic unit tests/ class tests, two mid semester examinations, and improvement tests are conducted followed by a university examination. These records are audited at the end of the semester by an audit team formed by the academic council. The audit team appreciates the efforts, identifies loopholes and gives suggestions for improvement if any.

The course coverage is assessed from time to time and any related discrepancies are discussed in the departmental monitoring committee and also at the Academic Council meeting for effective curriculum delivery. Feedback of the students is collected at the end of the semester for better curriculum planning

and implementation in the next semester.

**Self-Learning Initiatives:** Our institute is a local chapter of NPTEL. Students are also encouraged to develop prototype models which can be taken up as start-ups. The institution also provides the opportunity for students to demonstrate their co-curricular activities through participation at Science Exhibition organized at our institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 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:** 91

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

### 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:** 51.03

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
389	174	244	243	610

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 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:

All departments in this institute have courses in their educational program which incorporate crosscutting issues identified with gender environment and sustainability, human values and professional ethics. Various programs and projects are organized by organization which adds to sharpening of understudies to these cross-cutting issues.

**GENDER EQUALITY-** The Institute urges boys and girls to take part in **annual games and distinctive social and cultural activities**. The institute provides **common medical facilities** to boys and girls. The college has women empowerment cell. Hostel facilities with all amenities are also available in college campus for boys and girls. **Internal Complaints Committees** is established for receiving grievances and provide solution within given time frame. The institute has been organizing various programs for **women's safety, health checkup, personality development, seminars** for boys and girls. Every year college **celebrates Women's Day**. The college film named "**Spandan**" had active participation of boys and Girls. The students developed an app "**First Harvest**" where both boys and girls participated and won a prize on state level. There are **common rooms** for **girls'and boys'** in institute. There was active participation of girl candidates in **Hackathon** in ESL, **Smart India Hackathon**, Jaipur & **Boot Camp** in Kolkata. The college organized a program called **Women's Participation in Advance Society** to participate at the forum, Giant Welfare Foundation. The girl students participated in **Voting Awareness Camp** in college organized by District Election Commission.

**ENVIRONMENT AND SUSTAINABILITY** - The Institute have been conducting various programs on **Save Water, Energy Conservation, Tree Plantation** etc. College has **Plastic Free Campus**. In B. tech there is **subject on Environment Science in each branch** in 2nd year which focus on environment and sustainability. College has **active NSS unit** which organizers various awareness program on

Environment & also organized tree plantation on **World Tribal day**.

**HUMAN VALUES AND PROFESSIONAL ETHICS** - The Institute has **ragging free** environment and **internal complaint committees** monitors all issues related to this. College has constructed **ramp on both sides** of building for physically challenged students and staff. **Lift facilities** also available for students. The Institute organizes programs based on human values and professional ethics.

The Institutes provides GATE exam coaching and many soft-skill training programs by external experts. Industrial visits and seminars on these are organized from time to time. As per university syllabus the MBA department has subject Business ethics & corporate Governance (Paper 15) in the 3rd semester. The college organizes various personality development programs through its communication sub-cell and Institute Industry interaction Cell to increase the employability of students. The subject **Entrepreneurship** is included in 5th semester for each branch. Industrial visits and internships are made compulsory and experts from corporate world are invited to share their views and insights with the students to enable tyhem to understand the corporate standards, culture and practices. It is observed that these measures cause immense and positive change in students' behavior, attitude and communication with their peers and teachers.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 1.3.2

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

**Response:** 42.01

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

Response: 263

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 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	<a href="#">View Document</a>
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	<a href="#">View Document</a>
Action taken report on the feedback analysis	<a href="#">View Document</a>
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>



## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 55.89

##### 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
300	219	154	214	186

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

2022-23	2021-22	2020-21	2019-20	2018-19
420	300	300	360	540

#### 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](#)

#### 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:** 68.31

##### 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
208	144	93	121	100

### 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
210	165	150	180	270

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	<a href="#">View Document</a>
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)	<a href="#">View Document</a>

## 2.2 Student Teacher Ratio

### 2.2.1

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

**Response:** 9.94

## 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 college has ICT facilities and encourages students to participate in-house and outside the institution for experimental learning, participative learning, and problem-solving.

The GGSESTC has excellent laboratory and workshop facilities with adequate equipments, skilled and trained instructors and laboratory assistants. Almost 40% of the course credit is for experimental learning, practicals, mini-projects, etc.

The institute has dedicated digital classrooms for all programs. Multimedia teaching aids like digital boards, projectors, and classrooms with internet-enabled computer systems are usually used in digital classrooms.

The institute promotes Experiential learning (learning through hands-on experiments).

Student-centric learning is provided in the practical sessions. Internships and vocational trainings usually last one month. Group Projects: Final year projects of all branches through which experiential learning was achieved. Technical Fest & Workshops on Robotics, Simulation, etc, Educational visits to nearby industries are undertaken.

The students work on minor and major projects where they identify technical problems and develop solutions using techniques and ICT tools. The college regularly organizes science and innovation exhibitions, enhancing learning experience. The students participate in various state and national-level competitions, tackling challenges from "ESL Vedanta, Bokaro, Jharkhand," such as solar-based street lights with auto-daylight sensors, 3D printers, overspeeding monitoring systems, QR code implementation for vehicles, automated sprinkling systems, and more, including contributions to Unnat Bharat Abhiyan and Fire Bird Film projects.

Several students took part in various skill development and hackathon programs organized by AICTE, the Government of India, and top institutes across the country. One student secured first place for presenting an innovative idea on the topic "plastic roads" at the Central University of Jharkhand, in collaboration with IIT (ISM) Dhanbad.

Students are given ample scope for participative learning through various MOUs related to Hackathons, entrepreneurship & Cultural activities. The Institute has organized online classes of entrepreneurship assigned by JUT Ranchi for approx. 1000 students. The NSS and Green Army activities, covid-camps, institutional social responsibility through the Red Cross, Village Adoption, Tree Plantation, Swachh Bharat, and Health Awareness Camp to help the students learn the art of living as a team for social and community welfare.

### **Teachers use ICT enabled tools for effective teaching-learning process.**

The institute has multiple seminar halls and auditoriums equipped with advanced ICT tools and it regularly hosts invited talks and webinars. Faculty members are encouraged to utilize modern teaching aids, integrating ICT into the program-wise class routines. Lectures are enhanced through PowerPoint presentations, relevant videos and animations which foster an optimal learning environment. Additionally, the institute encourages and supports students & faculties to access Massive Open Online Courses (MOOCs) and NPTEL, benefiting both faculty and students. The library supports learning with a vast collection of printed books, e-journals, and e-books in Engineering and Management. These all are accessible through online facilities through EBSCO e-library access.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1

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

**Response:** 100

#### 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
63	68	81	99	116

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	<a href="#">View Document</a>

### 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:** 32.32

#### 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
27	27	28	28	28

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.	<a href="#">View Document</a>
Institution data in the prescribed format	<a href="#">View Document</a>
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	<a href="#">View Document</a>

## 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:**

The internal assessment is done through two MSTs, Class-test and assignments as per JUT norms. The external assessment process is formulated and published by JUT, Ranchi, and communicated to the students by the respective department in the first week of the semester as well as during the orientation program for the first-year students.

Assignments and questions are given to students unit-wise for well-preparedness. Students are free to discuss with their concerned subject teacher or mentor any issues related to the subject. After the publication of the MST- I result, students are categorized into two groups slow and fast learners. Remedial classes are conducted for slow learners and performance is observed by their respective mentors by conducting retest and assignment works.

Teamwork and examination marks are assessed based on their attendance, viva voce, seminar presentation, and technical quiz.

There is a provision of two Mid-Semester Tests (MST) for theory papers that are assessed as per JUT guidelines. The total marks of the external and internal theory papers examination are 70 and 30 respectively. The total marks of the external and internal sessional (Practical) examination are 25 and 25 respectively.

The institute has prepared standard formats for question papers depending on the type of subject based on course-outcomes (COs) for continuous evaluations (CE). Assessment of practical records is maintained by the department, and practical/oral examination is evaluated by internal and external examiners.

It is a practice of the college to show internal examination answer books after evaluation to the students in the class for self-evaluation. Students are free to interact with the teacher to resolve grievances, if any, regarding the assessment. By adopting the criteria as per the direction of the university, complete transparency is maintained in the system of internal assessment.

## Mechanism of grievance

The institute has a well-organized system in place to handle examination-related grievances in a timely and transparent manner. After the evaluation of internal assessments, students are shown their answer books. Any doubts raised are clarified to help them perform better in future assessments. MST papers are reviewed in class, and any issues that arise are addressed by the respective teacher. If the concern remains unresolved, the students can submit a formal request to the Head of Department (HOD) or Dean within two days. The matter is then referred to the concerned faculty member for resolution, and the student is informed within three days.

At the university level, examination-related notices, circulars, and schedules are regularly posted on notice boards and online groups. If a student has a grievance, they can approach the exam section through the HOD, which will relay the issue to the university. After results are announced, students may apply for reevaluation (scrutiny) through the institute's examination section, which forwards their requests to the university within the required timeframe.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 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:

Our Institute, affiliated with Jharkhand University of Technology, Ranchi, offers a wide range of Engineering and Management programs. These include B. Tech degrees in Mechanical, Civil, Computer Science and Engineering, Computer Science and Engineering (Data Science), Computer Science and Engineering (Cyber Security), Electrical Engineering, Electronics Engineering, and Fashion Technology, along with BCA and Management programs like BBA and MBA in HR, Marketing, and Finance. The curriculum for these programs is designed by our affiliated university.

The Institute places a strong emphasis on evaluating Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs). These outcomes are communicated to students through classroom discussions and departmental notice boards. The evaluation of these outcomes has shown a consistent and progressive increase in student strength, passing percentages, progression to higher studies, and placement ratios over the last five years. The Institute employs both formal and informal mechanisms to measure the attainment of POs, PSOs, and COs, including feedback from all stakeholders, and takes necessary steps based on this feedback.

Decisions regarding curriculum implementation are made through discussions among faculty and class representatives, guided by frameworks suggested by the University, higher education councils, and AICTE. The models of learning outcomes are displayed on the college website. Upon completing their programs, students are expected to demonstrate competencies in scientific thought, communication, lifelong learning, and overall development. B. Tech and MBA graduates acquire working knowledge of key topics, stay informed about recent developments in their fields, and develop the ability to independently analyze and solve problems. They are also encouraged to communicate their ideas effectively through various channels such as WhatsApp groups, written assignments, and oral presentations. The curriculum fosters skills and motivation for lifelong learning, supported by activities like quizzes, debates, and extracurricular events that enhance learning outcomes and specific skills.

The Institute enforces a code of conduct, requiring students to wear uniforms, participate in cultural activities, and uphold their identity and responsibilities as students. This code of conduct and adherence to ethical standards prepare students to face competitive exams, interviews, and future job opportunities with confidence.

The printed banners displaying the Course Outcomes (CO), Program Outcomes (PO), and Program Specific Outcomes (PSO) are prominently showcased in various locations such as the respective labs, departments, workshops, examination section, and the library, ensuring that students and faculty members can easily view and reference them across different academic and administrative spaces within the institution. The website sections may include:

- A page listing all POs and COs for each program (Undergraduate, Postgraduate, etc.).
- A downloadable document or PDF providing details of the POs and COs.

Links for course syllabi and outcomes are available.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 2.6.2

*Attainment of POs and COs are evaluated.*

**Explain with evidence in a maximum of 500 words**

**Response:**

Institutional academic programs are meticulously crafted to align with clearly defined learning outcomes, seamlessly integrated into the overarching goals and objectives of the establishment. A cornerstone of this approach lies in the meticulous assessment of course outcomes, program outcomes, and program-specific outcomes, serving as vital benchmarks within the framework of outcome-based education.

The process to calculate the attainment of POs & COs is with the help of data from the class test (CT), Mid Semester Test (MST), and End Semester Examination (ESE) with a standard formula.

To ensure the effective measurement of POs, PSOs, and COs, the Institute has implemented several mechanisms:

- The Institute followed the Academic Calendar provided by the affiliated university.
- Maintenance of Academic Files by subject teachers each academic year.
- Preparation of Semester-Wise evaluation reports by all subject teachers.
- Analysis of evaluation reports by the Internal Examination Committee.
- Review of students' progression to higher studies and placements by the Placement Committee.
- Consideration of feedback from stakeholders to assess and improve the attainment of POs, PSOs, and COs.

Through these mechanisms, the Institute consistently monitors and enhances the educational experience, ensuring that students are well-prepared for their future careers and lifelong learning.

Central to the ethos of this system is the pursuit of academic excellence, wherein the attainment levels of these outcomes serve as crucial indicators of success. Continual refinement and enhancement of the educational process are facilitated through rigorous monitoring and assessment, with feedback channels established through the Department Academic Council (DAC) and the Institute's Academic Council. The Institutional Quality Assurance Cell (IQAC) assumes a pivotal role in overseeing the assessment and attainment procedures, ensuring adherence to standards, and fostering a culture of continuous improvement.

A systematic methodology is employed to gauge the attainment of course outcomes, drawing upon historical performance data to establish attainment levels. By delineating three distinct levels of attainment, educators can effectively gauge the extent to which course objectives are met, providing valuable insights into student progress and program efficacy. The assessment process hinges on the quantification of attainment, measured in terms of the percentage of students achieving predefined performance thresholds.

Through this comprehensive approach, the institution cultivates an environment conducive to academic success, where educational endeavors are meticulously aligned with overarching objectives. The iterative nature of the assessment and attainment process underscores a commitment to continuous improvement, ensuring that educational practices remain dynamic and responsive to evolving needs.

Attainment of CO is calculated based on the following:

For Theory subjects:

1. Internal Evaluation (weightage 30%)

- Continuous internal assessment
- Assignments

1. External Evaluation (weightage 70%)

- University end semester theory examination

For Practical Subjects:



## 1. Internal Evaluation (weightage 50%)

- Lab performance
- Practical continuous assessment

## 1. External Evaluation (weightage 50%)

- University end-semester practical examination

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**2.6.3****Pass percentage of Students during last five years (excluding backlog students)****Response:** 80.97**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
187	178	187	178	219

**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
188	183	237	238	326

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
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.	<a href="#">View Document</a>
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1

**Online student satisfaction survey regarding teaching learning process**

**Response:**

<b>File Description</b>	<b>Document</b>
Upload database of all students on roll as per data template	<a href="#">View Document</a>

## 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:** 2.48

#### 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
.34551	2.131	0	0	0

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 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:**

GGSESTC offers an atmosphere that is favorable to the development of innovation and incubation. All necessary resources are available, and pupils are given guidance. It is recommended to students to actively participate in the use of technology to meet societal requirements. All support is given that may be required for documentation, research paper publication, and patent acquisition.

GGSESTC organizes awareness campaigns, workshops, seminars, and guest lectures about entrepreneurship. The students get the chance to speak and interact with exceptional business owners who are leaders in their industry. To raise awareness of product marketing, training is offered.

The Incubation Center's only goal is to assist students in turning their ideas into technological innovations. Facilities are offered for students to construct prototypes that will help advance rural development and agriculture as well as monetary support is given.

Ideas flow freely from the outset, when efforts are made to develop our pupils and turn inventions into a driving force behind economic expansion. Students started up initiatives for these newest innovations.

The college is acknowledged as a hub for Micro, Small, and Medium-Sized Enterprises (MSME), and the creation of affordable projects pertaining to society is encouraged. In order to systematically promote an innovative culture throughout all Higher Education Institutions (HEIs), the Ministry of Education (MoE), Government of India, formed "MoE's Innovation Cell (MIC)." The main goal of MIC is to work with young students to develop their ideas into prototypes during their formative years in order to inspire, motivate, and nurture them. to establish a thriving regional innovation through organizing different National and State Level Science Exhibitions, also by representing GGSESTC at different Science Exhibitions (like Hakhathon) ,etc. and lecture on Entrepreneurial & Intellectual Property Rights (IPR).

The students receive financial assistance to display their models in competitions organized by other HEIs, called Idea Generation Contests. Students are given the chance to learn skills necessary for commercializing their product. The students are invited to hear from and be inspired by the local entrepreneurs.

The institute offers a conducive atmosphere and all the infrastructure required to support research activities on campus. It is encouraged for faculty members to pursue their research and apply to different funding bodies. On the other hand, the institute is prepared to offer seed money or some support in response to well-thought-out applications from instructors and students. It is recommended that faculty members and students submit their ideas and project proposals to the research committee in order to receive approval for seed money in compliance with institute policies. Faculty and students are free to select whatever research topic they like, and they are assisted in obtaining financing from a variety of sources and businesses. By offering rewards for authored books, patent applications, and peer-reviewed papers, the institute supports its faculty members. The institute handles the patent filing procedure, which is controlled by the institute's research policy.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 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:** 53

**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
15	26	9	1	2

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

#### 3.3.1

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

**Response:** 0.29

**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
15	13	14	5	8

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	<a href="#">View Document</a>
Link to re-directing to journal source-cite website in case of digital journals	<a href="#">View Document</a>
Links to the papers published in journals listed in UGC CARE list or	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 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: 0.5****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
14	58	13	2	9

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

**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:**

The college organizes a number of extension activities to promote institute-neighbourhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. The college runs effectively National Service Scheme and Unnat Bharat Abhiyan. Through these units, the college undertakes various extension activities in the neighbourhood community.

NSS organizes awareness camp in nearby adopted villages and several activities are carried out by NSS volunteers addressing social issues which include cleanliness, tree plantation, and water conservation.

The college has been praised and acknowledged for different extension activities and its commitment to social issues and holistic development through various social welfare programs, such as the E-kalyan Scholarship for students from specific categories and the Maan Ki Munda Scholarship for general category girls. Additionally, its efforts have been recognized by several news agencies, including Prabhat Khabar, Dainik Jagran, Hindustan Times, 22 Scope, and various social media platforms, Social interaction, Group discussion, Beti Bacho Beti Padhao, Environmental awareness, Women

empowerment, National Integrity, Blood donation camp, Health check-up camp, Scientific awareness and Engineering temperament and social justice inclusive education (Basant Mela), Kavi Samelan, Voters awareness, Good Governance and Practices, prevention and Fight against Corruption, Fit India Movement, Peaceful Candle March for paying tribute to our Martyrs of terrorist attack at Pulwama, Free Lanagr seva, Spandan (Small Movie on social awareness for higher education and dowry system), Career Counselling Campaign, 'Eat Right Campus' certification, NSS Clean India, career guidance and information stall at Durga Puja Pandal, Sector 2, Bokaro, Sarkar aapke dwar at Sonabad, Bokaro, 'Kranti Diwas' and celebrated World Adivasi Day.

The NSS unit of the college organise, Unnat Bharat Abhiyan. It aims at developing qualities of leadership, patriotism, maintaining discipline, character building, spirit of adventure and the ideal of self service.

Under Unnat Bharat Abhiyan the college adopted five villages and organizes various extension activities such as road safety awareness, Ekta daur for health, save fuel save country programme (Cycle Rally), Swachhta Abhiyan, National equality awareness. Villages had been also assigned, to develop to provide them better solutions of their problem, Swachchata Pakhwada (one week activity), Barrier free access of drinking water and toilet facilities in villages,. Other than NSS and Unnat Bharat Abhiyan, the various departments of the college is conscious about its responsibilities for shaping students into responsible citizens of the country by making students aware of social issues through various programmes like, Soil and Water Testing, Plastic eradication, Voters awareness, etc. Motivational speech by Vice Chancellor (VC) JUT. Azadi Kaa Amrit Mahotsav, Shaheed Diwas, Covid 19 Vaccination day, World Tribal day, Akhand Path, Audition Program for Spandan movie, Rangoli making competition, Workshop on Industrial fire and safety, Seminar on Entrepreneurial development, movie, Sticker distribution .

Social Audit like Gender audit, Energy Audit, Green audit and Environmental audit were conducted by independent bodies and verify the social responsibilities undertaken by the institute.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 3.4.2

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

##### **Response:**

GGSESTC is being recognised, appreciated and awarded with both government and non government bodies for its good practices for extensions activities. GGSESTC is committed to leveraging our resources, expertise, and manpower to address the pressing needs of our society through various extension activities. Our initiatives span a wide range of areas including community development, environmental sustainability, health and wellness, education, and social justice. The positive impact of

these efforts has been recognized by several esteemed government and government-recognized bodies, underscoring the effectiveness and significance of our programs are as follows:- Appreciation letter from Bureau of Indian Standards to promote Indian standards and create awareness on quality and standard, NPTEL Appreciation for disseminating and supporting learner for SWAYAM NPTEL local chapter GGSESTC, Appreciation letter from Institution Innovation Council for the continuous support and contribution towards building the innovation and entrepreneurship culture development in campus and also extending support to help other IIC institutes towards growth of IIC network, Appreciation by Jharkhand Government for successfully uploading the data of baseline survey, Appreciation Letter from the office of Deputy Commissioner Bokaro for voting awareness between students, Appreciation from Red Cross Society Bokaro for blood donation camp, Eat Right Campus - GGSESTC is the first college in Jharkhand to get Eat Right Campus Certificate/status initiative led by FSSAI aims to promote safe, healthy and sustainable food in campus, Jamshedpur Appreciation certificate for Fire Bird (a documentary film based on JIADA, Bokaro), Certificate of Appreciation - 3rd Jharkhand National Film Festival 2022 for being selected and screened for SPANDAN short movie, NSS Appreciation letter for clean Indian Movement, ISO9001:2015 for B. Tech. MBA & GGSESTC IAS Academy for quality management system, Appreciation letter for the establishment of Institution Innovation Council (IC202217260) MoE's, IIC. Appreciation from Election Commission of India for successfully completing national voting awareness quiz contest, Appreciation from Red Cross Society for voluntary blood donation, Nav Bihar Times Appreciation for outstanding contribution in the field of education and literature, 5th National Film Festival on Rural Development. 5th National Film Festival on Rural Development shortlisted for screening National institute of rural development and Panchayati Raj (NIRDPR) Hyderabad for SPANDAN movie, JUT Appreciation to Director for contribution as convener for organizing national conference, Appreciation from AICTE for National Testing Agency (NTA) Exam for coordination and conduction of Entrance exam, JUT Appreciation to Coordinator for organizing National Conferences.

These awards and recognitions not only validate our efforts in extending support and services to the community but also inspire us to continue our work. Each award and recognition represents the hard work and dedication of our staff, students, and community partners, reinforcing our mission to contribute positively for holistic promotion of education in society and these are a witnesses to GGSESTC's commitment to excellence in extension activities.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 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:** 54

**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
17	16	5	10	6

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**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:** 24

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	<a href="#">View Document</a>
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 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:**

The College is situated in 12.595 acres of well maintained green campus which has a built-up area of 29862 sq.m. The campus has brick masonry wall and fencing with mesh wire at the top of wall. It has 23 number of classrooms, 36 number of laboratories and workshops to support the academic activities. Amenities and facilities such as students activity centre, separate hostels for boys and Girls, staff quarter, guest house, Director residence, medical room, generator room, ramp, lift & lavatory facility for the physically challenged, well maintained lawn, CCTV surveillance at all strategic locations, canteen and sanitation facilities are available. All the laboratories are well equipped and are with appropriate sizes of doors and windows for moving equipments. It has a Computer centre with 100 seating capacity and internet connections. These are supervised by a qualified System Analyst.

All the classrooms are well furnished, ventilated and equipped with teaching aids. Some class rooms have interactive panels. GGSESTC uses diverse sets of Information and Communications Technology (ICT) tools to communicate, create, disseminate, store, and manage information. Faculty members use Power Point Presentation (PPT) for demonstrations of data. The pre-recorded National Programme on Technology Enhanced Learning (NPTEL) videos are projected to the students. The relevant study materials can be accessed from NPTEL.ac.in. The college has e-journals and e-books. Teachers are encouraged to prepare their video lectures. The college premises are Wi-Fi enabled. You-Tube, E-mails, Whatsapp group, Zoom and Google classrooms are used as platforms to communicate, provide syllabus and learning materials, make announcements, conduct tests and upload assignments, presentations and address queries, etc. The college conducts online theory and practical exams. The College has facilities for attending Massive Open Online Course (MOOC) classes. The college has conducted several online classes, FDPs and seminars.

Our college has Shri Guru Teg Bahadur auditorium (double storeyed) with green room and toilets, seminar hall and an open theatre to perform all the cultural activities with a seating capacity of 700; 200; and 300 persons respectively. The seminar hall is equipped with air-conditioning system and interactive panel. The college has a large gymnasium with state of art equipments. The college has dedicated spaces for Indoor sports, including Table Tennis, Badminton, Chess, and Carom. Our Outdoor facilities include a court for Basketball and Volleyball. NSS parade activities and yoga classes are available for the students. The college has exclusive Rose Garden, Selfie Point and Welcome Point which enhances the ambience and happiness quotient of the college.

The college has UPS (20. KVA) support at CSE lab, three Generators of capacity 82 KVA, 50 KVA and 25 KVA, solar power of capacity 40 KVA (Boys Hostel), and 20 KVA (Girls Hostel), Reverse Osmosis (RO) Plant of capacity 1000 liter/hour, Kent Water Purifiers and Water Cooler, Rain Water Harvesting system, Canteen and Sanitation facilities; as well as a provision store for students.

The campus houses a branch of Union Bank of India to provide banking facilities and has an ATM.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

#### 4.1.2

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

**Response:** 30.2

**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
33.686	14.001	15.620	90.699	66.201

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>
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)	<a href="#">View Document</a>

## 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 college has a central library for engineering and management students named 'Guru Nanak Dev Central Library'. Central Library acts as a knowledge hub for the academic activities of our Institution with a mission to provide a knowledge gateway to the user community with state-of-the-art technology. The library has seating capacity of more than 150 students. The library has more than 18500 plus books, in addition with 16600 e books are available out of which 10,000 are for management and 6,600 are for engineering courses. In the library, 48 journals in different branches of B. Tech are available and 12 journals in Master in Business Administration (MBA) out of which National(6) and International (6) along with facility of digital library where student have online reading and downloading facilities. The Central Library is automated with Integrated Library Management system Software (ILMS), provided by WIPENEX IT Pvt. Ltd . ILMS manages the book category, book type, add/edit book details, create logins, manage patron(students/staffs). It handles book issue membership details, issue and return books, manage publication and provide reports on book list, total available copies and issued copies, reference book details, branch-wise book details etc.

Library software is available through which accession is convenient. It has membership of Developing Library Network (DELNET). College has provided E-Books facility from EBSCO Information Services. EBSCO have also provided training to use their mobile application and website to access required books . A dedicated LAN and Wi-fi facility has been made available to library. Central Xerox facility is also available in the library along with book issue counter.

The Institute conducts library stock inventory and at the end of every year and obsolete or damaged books are dispensed from the library after approval from the college authority. New books are added in sufficient numbers as per requirement, when syllabus changes or new courses are introduced and also to replace the dispensed books. Being an industrial area many technical books have also been donated by many eminent personalities to our library.

The Guru Nanak Dev Central Library committee serves in an advisory capacity to the Chairperson of the Guru Nanak Dev Central Library on matters of general policy, planning, programs, goals and objectives. More than two lakhs rupees amount is spent on purchase of books, journals, news papers, renewal of softwares in every academic session as per the advisory of central library committee. There are also student representatives and an additional representative from the library management team. A qualified and experienced librarian runs the library and paid internships are also provided to budding librarians.

All the students from engineering and management are assigned library period in their academic routine for studies and research work. All the faculties and staff from college use the library in their leisure time for knowledge enhancement. Proper attendance register is maintained in the library separately for students and staff.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 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:**

IT facilities of the college comprises of hardware, software, internet and interactive panels. The Institute has constituted an IT cell to take care of hardware and internet connectivity and taking care of Software Installation and their maintenance. A system administrator heading the Central IT Department which is taking care of IT related issues such as all the planning, Product Evaluation and implementation work, along with the rennovation of the old network infrastructure. Software and hardware are upgraded regularly when a demand for the same arrives.

The institute has 300 computers ( Lenovo ) with configuration: Dual core 3.0 GHz, 1GB RAM, Hard Disc- 360 GB, 100 computer ( Lenovo) with configuration : i-3 processor, 4 GB RAM, Hard Disc-500 GB., 4 Laptops :Make- HP of configuration: i-3 processor, 4 GB Ram, Hard disc- 500 GB, Make-Dell of configuration: Dual core 15", 4 GB RAM, Hard Disc- 360 GB. All labs are equipped with UPS for un-interrupted power supply (10KVA, 20 KVA and stand alone UPS of 600 VA).

There are more than 30 softwares available for academic purposes, some of them are license key software and some are open source software. Plagiarism checker X software (professional edition), a helping software for research paper work, DELNET service is available, Library system is fully computerized with ILMS software by Wipenex-IT pvt. ltd

All departments are provided with computing facilities such as Desktop, printers, scanner etc. and have got unlimited access to the High Speed Internet facility. Students can freely access computing facility as well as peripherals available in the institute. At the beginning of every academic year, the need-assessment for replacement /up gradation/ addition of the existing infrastructure is carried out, based upon the suggestions from Head of Departments, Lab in-charges of respective laboratories and System administrator. The authorities review course requirements, computer-student ratio, budget constraints, working condition of the existing equipment and also grievances of teachers and students. The classes are equipped with LCD projectors and internet connectivity for online teaching learning process. NPTEL services and other e-learning resources are available for self-paced learning that supplements regular lectures.

**Stand alone facility**

Institute provides dedicated computer facility to each and every student and faculty.

**LAN facility**

Institute campus has a structured LAN facility; whole network is in 3 tiers architecture comprising of the core, distribution and access. All the end users/workstations are connected through 10/100/1000 base ports.

**Internet features**

Institution has the internet speed of 500 MBPS, 1:1 connectivity from Airtel Communication. Campus network uses currently 300 VLANs with current configurations.

#### Wi-Fi facility-

Institute campus (including all girls and boys hostel) is fully Wi-Fi enabled with un-interrupted internet connectivity.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

#### 4.3.2

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

Response: 2.09

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

Response: 300

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	<a href="#">View Document</a>
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	<a href="#">View Document</a>

## 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: 62.15

##### 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
72.463	60.255	65.294	111.514	143.678

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format	<a href="#">View Document</a>
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)	<a href="#">View Document</a>

## 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:** 74.79

**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
611	461	358	443	560

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	<a href="#">View Document</a>
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	<a href="#">View Document</a>
Upload policy document of the HEI for award of scholarship and freeships.	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

#### 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)	<a href="#">View Document</a>
Report with photographs on ICT/computing skills enhancement programs	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 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:** 66.28

**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
371	420	475	564	326

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 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	<a href="#">View Document</a>
Proof related to Mechanisms for submission of online/offline students' grievances	<a href="#">View Document</a>
Proof for Implementation of guidelines of statutory/regulatory bodies	<a href="#">View Document</a>
Details of statutory/regulatory Committees (to be notified in institutional website also)	<a href="#">View Document</a>
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 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:** 72.08

**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
144	217	156	93	74

**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
187	178	187	178	219

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)	<a href="#">View Document</a>
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)	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 5.2.2

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

**Response:** 13.21

**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
21	5	6	1	2

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

## 5.3 Student Participation and Activities

**5.3.1**

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

**Response:** 62

**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
36	13	2	4	7

File Description	Document
Upload supporting document	<a href="#">View Document</a>
list and links to e-copies of award letters and certificates	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**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:** 31

**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
25	36	21	19	54

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1

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

**Response:**

There is an Alumni Association undergoing registration process. The Institute's Alumni Association has been instrumental in shaping the path of its graduates (B. Tech, BBA, BCA, and postgraduates (MBA), shaping them toward becoming technologically adept professionals, influential leaders, innovative entrepreneurs, dedicated researchers, and adept global managers. It was established in 2018.

The Alumni Association has been a loyal supporter of the Institute, actively contributing to its mission and objectives. Through various interactive sessions, the Alumni Association imparts invaluable insights to current students, offering guidance on career prospects and educational opportunities both domestically, nationally, and abroad. Moreover, alumni actively engage in social media platforms, blogs, and forums, sharing their experiences and expertise, thus enriching the educational landscape and fostering continuous curriculum improvement through regular meetings.

The Alumni Association serves as a bridge between the Institute and the students employed in the corporate sphere, facilitating vital connections and collaborations and ensuring that the Institute remains attuned to industry trends and developments, thus enhancing its relevance and competitiveness in the professional arena.

**The principal objectives of the Alumni Association are to:**

- Establish a platform for connecting ex-students and current students to share experiences and interests.
- Facilitate social and professional networking among alumni.
- Act as ambassadors for the Institute by aiding student career development and organizing industry visits.
- Leverage alumni experience to benefit current students, promoting campus interviews and placements.
- Bridge the gap between academia and industry.

To encourage a harmonious relationship among all stakeholders, the GGSESTC Alumni convened for their annual meeting on 2nd Jun 2021, 21st Jun 2022, and 2nd March 2024. This day-long event was replete with cultural festivities and served as a platform for meaningful exchanges between alumni, current students, and faculty members. Together, they brainstormed innovative approaches to enhance the educational experience of present students, explored diverse career opportunities across sectors, and

engaged in discussions regarding emerging trends in technology and industry dynamics. Amidst the interactions, several alumni fondly reminisced about their time at the Institute, sharing invaluable memories and insights.

While direct financial contributions from alumni have yet to materialize, their support for the college has been substantial and multifaceted. From offering mentorship to students to participating in collaborative initiatives, alumni have played a pivotal role in boosting the institution in various capacities, exemplifying their enduring commitment to its growth and success.

**Contributions from Alumni:**

- **Expert Speakers:**
  - **Dr. Sarita Kumari (B. Tech, Electrical Engg. 2013-17):** Assistant Professor
  - **Dr. Deepak Kumar:** Director of WIPENEX, who contributed Rs 10 Lakhs by providing crucial software solutions at minimal cost.
- **Experience Sharing:**
  - **Mr. Diwesh Kumar (B. Tech, Civil Engg. (2015-19)**
  - **Mr. Vishwa Prakash Mahato (MCA 2011-14)**
  - **Mr. Rahul Kumar Sharma (MCA 2011-14)**
- **Training and Curriculum Enrichment:**
  - **Ms. Shubhashree:** Assistant HR Manager at IB Arts Private Limited
- **Campus Recruitment Facilitation:**
  - **Sourav Kumar (MBA 2016-18):** HR professional at Satya Micro Capital Ltd.
- **Health Promotions:**
  - **Sarfaraz Khan (EEE 2015-19):** Social Protection Officer.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 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:**

The Guru Gobind Singh Educational Society's Technical Campus (GGSESTC) has started its journey of academic excellence in the year 2011, promoted by the Guru Gobind Singh Educational Society (GGES). To provide quality and affordable engineering and management education for the students of the state who had no option earlier except to migrate to another state to seek engineering and management education.

The governance of the institute is a reflection of effective leadership in tune with the vision and mission statements. GGSESTC leadership is very enthusiastic to make society aware of 'what is happening around us', for this leadership of GGSESTC works with District Administration to make society aware by arranging some functions and activities. Management and the institute have received many appreciation letters from various government and non-government organizations. For example, appreciation from District Administration, AICTE, JUT, ISO 9001:2015, Eat Right Campus, the 5th National Film Festival on Rural Development, the Red Cross Society, NPTEL, NSS, the Election Commission of India, etc.

To ensure quality and imbibe a culture of excellence, IQAC has developed a perspective plan aligned with the vision and mission of the institute, along with the guidance of NEP. Many NEP workshops and seminars are conducted by the institute, and many members attended NEP workshops outside of the institute. NEP has already been implemented as of 2022. The Institute offers multidisciplinary courses and is currently working on autonomous status. Under NEP 2020, the Institute has encouraged its faculty and students to register in AICTE e-Kumbh and impart training.

The institution has experienced progressive growth by implementing new courses such as BBA/BCA, Polytechnic (Diploma in Engineering), Working Professionals and new branches in B.Tech (Fashion Technology, Cyber Security, and Data Science). The institute has a flexible CBCS where students can select major, minor, and elective papers. The institute promotes education by offering scholarships to needy students.

Decentralization and participatory management are ingrained in the administrative functioning of the institute. The Members of the Board of Governors of the Institute have been constituted as per the guidelines of the Statutory Body. Apart from this, an Academic Council has also been constituted with the Director as Chairman, Dean, and HODs as members. The apex body of the institute is the Managing Committee. HODs and various coordinators are working for the sustainable growth of the institute. These coordinators usually head a cell, which is composed of faculty members and very often students. For example: IQAC, T&P cell, IIC, Cultural, Academic Council, RAC, Admission, Scholarship, etc. All the

faculty members engaged in the governance are part of various cells like BOS, NAAC steering committee, admission cell, examination cell, anti-ragging, placement, etc.

The institute has a strategic plan, which includes:

Short-term Plan:

- A personality development program for the students
- To attain NIRF rank under 200 by 2025
- To attain NAAC accreditation by 2024
- To improve package in placements.
- Strengthening of Research
- Alumni engagement

Long-term Plan:

- NBA accreditation by 2026
- Autonomous Status
- Start-ups and incubation facilities

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 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:

Our commitment to quality education, research, and holistic development sets us apart. To accomplish its aim in a seamless and timely manner, GGSESTC has separated its perspective plan and strategic plan into three terms: immediate term, medium term, and long term.

- Immediate Plan: The immediate plan is in the direction of expansion, and NOCs have been procured from AICTE and JUT.
- Medium Plan: Autonomous Deemed University
- Long-Term: A world-class institution in terms of teaching, learning, and research.

We outline key strategies for effective deployment and streamlined functioning:



## 1. Institutional Perspective Plan Deployment:

- **Strategic Vision:** Our institutional perspective plan aligns seamlessly with our long-term vision. It encapsulates our unwavering commitment to academic excellence, innovation, and societal impact.
- **Implementation Roadmap:** We meticulously chart out a roadmap, considering resource allocation, stakeholder engagement, and measurable outcomes. Regular progress assessments ensure agility.
- **Monitoring Mechanism:** Our dedicated committee ensures that the plan's execution remains on track, identifying areas for enhancement and celebrating milestones.
- **Development and implementation of a comprehensive plan for sustainability,** focusing on renewable energy by introducing solar power plant, waste management, and green building practices. Positions GGSESTC as an environmentally responsible institution, contributing to long-term ecological sustainability and cost savings.

## 2. Efficient Functioning of Institutional Bodies:

- **Administrative Setup:** The key components of the organizational structure of the institute are the President, Secretary, Members of GGES, Principal, HODs, Teaching, and Non-Teaching Staff. Various committees with well-defined functions are constituted. A College Development Council (CDC) is established for the effective governance and overall development of GGSESTC.
  - GGSESTC's governing bodies, academic councils, and finance committees operate transparently.
  - Our administrative structure fosters accountability, ensuring timely and effective actions.
- **Appointment and Service Rules:**
  - Rigorous procedures govern faculty and staff appointments, emphasizing meritocracy and diversity. The institute follows the recruitment procedure as per AICTE and JUT.
  - Service rules encompass recruitment, promotion, leave policies, and performance evaluation. The institute follows the service rules according to the norms of the university.
- **Policies and Procedures:**
  - GGSESTC's well-documented policies (academic, financial, admission, and HR) empower stakeholders with clarity.
  - Streamlined procedures for admissions, examinations, and student services enhance efficiency.
- **Effective Communication:**
  - Regular interactions among institutional bodies foster collaboration and informed decision-making.
  - We encourage open dialogue, valuing diverse perspectives.
- **Capacity Building:**
  - GGSESTC invests in continuous professional development for faculty and staff.
  - Upgrade of digital infrastructure to support online learning and administration.
- **Quality Assurance:**
  - We adhere rigorously to AICTE and JUT standards, drawing inspiration from best practices.
  - Internal audits propel us toward sustained excellence.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Institutional perspective Plan and deployment documents on the website	<a href="#">View Document</a>

### 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	<a href="#">View Document</a>
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	<a href="#">View Document</a>
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	<a href="#">View Document</a>

## 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:**

Performance Appraisal System: The institution maintains an effective framework to assess and enhance the performance of teaching and non-teaching staff. The institute has a **360-degree self-appraisal system**. The form is submitted by staff with their and is reviewed by the respective department Heads, Coordinators, and Director. The appraisal review is positive and suggestive in nature to improve staff quality. Performance appraisals are conducted annually.

The form covers multiple aspects, including:

- teaching performance,
- student satisfaction,
- research contributions,
- assistance in student mobilization and placement,
- laboratory development,
- punctuality,
- dress code,
- discipline,
- Involvement in administrative tasks.

The institution's measures and appraisal system show commitment to well-being, growth, and excellence.

The institution has implemented various welfare measures and a well-designed performance appraisal system for both teaching and non-teaching staff, ensuring their professional growth, job satisfaction, and overall well-being. These initiatives contribute to create a positive work environment and enhancing the institution's productivity.

In terms of institutional welfare measures, the institution recognizes the importance of employee satisfaction and has introduced several schemes and benefits for the staff.

Financial welfare measures include the provision of:

- GGSESTC provides staff quarters within the campus to many of its employees at a very concessional rate, ensuring convenient and comfortable accommodation to support a healthy work environment.
- Concessional fees to wards of employees for education
- Vehicle parking area to park scooters and cars
- Group Accident Guard Policy
- Canteen Facility.
- Employee Provident Fund (EPF)
- Annual Increment
- Financial support for teaching staff to attend conferences, workshops, and faculty development programs in-house as well as outside.
- The institution grants various types of leaves, such as casual leave, medical leave, academic leave, and earned leave, to cater to personal and professional needs. Maternity leave is also provided for female teaching and non-teaching staff.
- Gifts/bonus for Diwali
- Arrangement of entertaining programs and free lunch, dinner, etc. on Lohari.

Additional facilities like,

- Medical services and safety measures such as fire protection and proper workspace arrangements are implemented.
- Banking and ATM facilities are available on the campus for easy access to financial services.
- The availability of an institute vehicle ensures emergency services round the clock.
- The institution prioritizes ICT facilities, making the campus fully Wi-Fi enabled.
- The provision of lifts, ramps, and separate washing places for differently-abled individuals demonstrates the institution's commitment to accessibility and inclusivity.

In terms of professional welfare,

The institution actively supports staff members by encouraging participation in higher studies, enhancement programs such as refresher courses, orientation programs, and short-term courses, and organizing faculty enhancement programs to stay updated with the latest trends in technology and industry.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 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:** 54.8

**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
40	44	44	50	56

File Description	Document
Policy document on providing financial support to teachers	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	<a href="#">View Document</a>
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 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:** 53.33

**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
75	61	62	75	95

**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
37	38	66	57	65

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>
Copy of the certificates of the program attended by teachers.	<a href="#">View Document</a>
Annual reports highlighting the programmes undertaken by the teachers	<a href="#">View Document</a>

## 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:**

GGSESTC uses a methodical and well-planned approach to raise receipts. The Institute upholds a

responsible and transparent financial structure to ensure efficient use of finances. Budgeting is another critical component. The Institute creates realistic budgets that allocate funds to various departments and activities based on their needs and priorities. Budgets are prepared in consultation with stakeholders.

The Institute mobilizes funds from:

- Mainly from student fees
- Revenue from hostel and bus fees
- The Institute extends the facilities of its infrastructure to various government and non-government organizations for the conduct of exams and skill development. For example, District Administration-Bokaro, JUT, NTA, TCS, University Copy Evaluations, Testing, JPSC and JSSC exams, SAIL-BSL exams, etc.
- The laboratory and skill of the technicians provide ample scope for technical testing of materials for revenue generation.
- MOUs with ICAR-IIAB, Ranchi, and Vedanta-ESL helped mobilize funds.
- Interest received from bank deposits (SB and FD)
- Rent and electricity

Funds are utilized in the following manners by the Institute:

- Teaching and non-teaching staff are employed to ensure the smooth function of the institution as per the guidelines of AICTE/JUT, on which a large amount of income is utilized for their salary, annual increment, ESI, PF, and gifts.
- For training and placement purposes of students and scholarships to needy students to pursue higher education
- Purchase of books, online e-books, lab apparatus, lab maintenance, sports items, cultural activities, and some other programs.
- Financial assistance for attending workshops, national and international conferences, FDPs, and training programs is provided to ensure quality education.
- The institution provides financial support to students for participating in hackathons, such as the Smart India Hackathon, and various other activities.
- Organizing guest lectures from industry experts and academicians from various reputed institutions.
- Enough money is allocated for the construction and upkeep of infrastructure, which includes buildings, labs, classrooms, furniture, and other items.
- Our institute is self-financed, so funds are also utilized for advertisement of our institute to attract more admissions.
- Services including electricity, insurance, telephone, newspapers, journals, Institute websites, and I Net, among others, are provided with finance.

For the intended goal, the available financial resources are used effectively and efficiently. While allocating financial resources for different purposes, the Director and Heads discuss the requirements and determine the priorities. Quotations from several suppliers are requested. The committee responsible for acquisitions makes sure that the right procedures are followed when buying equipment and making other purchases. The director gets approval for drawing and disbursement of funds to be obliged for the above work.

To enable transparency and accountability, we are maintaining accurate and up-to-date financial records

and conducting regular financial audits. A qualified chartered accountant reviews the account and entries regularly. Usually, the observation made by the auditor is discussed with institute Management and the Director, and clarification is obtained from the accountant by verifying the vouchers, bills, bank balance deposit receipts, and stock register.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

### 6.5.1

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

#### **Response:**

To enhance the quality and effect improvement in the academic process and also as a pre-accreditation exercise, the Internal Quality Assurance Cell (IQAC) was formed in the college in September 2018. The objective of the cell is to develop a system for conscious, consistent, and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders. IQAC of the college has developed a mechanism and action plan for continuous achievement of academic and administrative excellence. The think tank IQAC presents quality improvement measures to the CDC and gets approval from them. Once approved, the relevant authority puts it into action; for example, IQAC developed an appraisal form and a student feedback form, and then Dean (Academics & Administration) implemented it after approval from CDC.

IQAC has restructured college mission and vision. To achieve its mission and vision, IQAC has formulated an instrumental in achieving various academic and administrative goals.

To improve the quality and inclusive education policy of the institute, the following measures were taken:

- IQAC conducts regular meetings and suggests management for implementation of various strategies and processes.
- Solicit, format, and implement feedback/suggestion from stakeholders on quality-related affairs.
- Scholarship Aptitude Test (SAT)
- Collaborative quality initiatives with other institution(s)
- WhatsApp group for real-time monitoring of lectures.
- Remedial classes
- Academic Audit
- Various faculty development programs.
- Formation of Institute Industry Interface.

- Conducting national and international conferences to promote research publication and research culture among students and faculty members.
- Conducted online classes through digital mode during the pandemic period.
- Conducted online class test during pandemic period
- Recording of video lectures by each faculty on important topics for academically weak students.
- Development of Faculty Appraisal Form
- Development of student feedback form and time-to-time monitoring through quality education system.
- Development of 50 questions with answers to enhance students oral fluency.
- Integrate modern methods of teaching and learning and monitor their effect on the student's performance.

Institute has participated with the suggestion of IQAC in NIRF-2021, 2022 and 2023 and initiated for ISO certification and successfully achieved ISO 9001:2015 for B.Tech, MBA, and GGSESTC IAS Academy. In the consecutive years 2022 and 2023, there were approximately ten programs, each year, initiated by IQAC that included a national conference, FDP, workshop, seminar, and ECP.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 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



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

## 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 Institute conducted a gender audit through social organization of national fame and, according to their report, our college maintains good gender ratio and their representation in all clubs, activities, and other areas.

GGSESTC is promoting gender equity by appointing female professors as coordinator of different departments such as Internal Quality Assurance Cell (IQAC), Administrative Office and National Service Schemes (NSS). An equal number of girls & boys are volunteers in NSS and they participate in different activities. Training & Placement cell extends support in developing girl students equally through internship, training and campus opportunities.

Without any discrimination, all girls and boys participate in different academic and non-academic activities, such as cultural programs, sports, fashion shows, dance, and projects. Caring for their safety and security, a female warden is appointed in the girls' hostel, a 24x7 women helpline number is issued, CCTV cameras are installed at different checkpoints. The anti-ragging committee and a grievance redressal committee are constituted comprising of ladies faculties.

For their all-round development, regular counseling sessions are organized regarding academic performance, career plans, personal and psychological issues. Facilities such as ambulance, college bus, common rooms, library and cafeteria provides equal space for girls and boys. Initiatives such as "SPANDHAN" a short movie which is based on anti-dowry; 'Prabhat Pheri' for awareness of women voting on International Women's Day; 'Beti Bachao Beti Padhao' seminar was organized for empowering and transforming rural women.

The Institute has constituted various committees with senior female faculty/ staff members, like Harassments committee, Women Redressal cell and Internal complaint Committee (ICC). Ladies' supervisor is appointed in a girl's hostel. The industrial visit to Vedanta is headed by a lady professor in association with students & Vedanta officers.

Girls students are equally provided with an opportunity to participate in beyond campus activities like Hackathon organized by Electrosteel/Vedanta, Innovation challenge 2023, organized by Central University of Jharkhand in collaboration with IIT-ISM Dhanbad on the topic "Plastic Road" and "Automatic sprinkling system".

Women employees' are allowed to bring infants with attending day care. Also, a sanitary pad machine is

installed in the college. Staff quarters are available for stay of female and male staff. The medical room is equipped with a lady nurse/attendant. Maternity Leave is provided as per the norms to staff.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 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.	<a href="#">View Document</a>
Geo-tagged photographs/videos of the facilities.	<a href="#">View Document</a>
Circulars and report of activities for the implementation of the initiatives document	<a href="#">View Document</a>
Bills for the purchase of equipment's for the facilities created under this metric	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 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	<a href="#">View Document</a>
Policy document on environment and energy usage Certificate from the auditing agency	<a href="#">View Document</a>
Green audit/environmental audit report from recognized bodies	<a href="#">View Document</a>
Certificates of the awards received from recognized agency (if any).	<a href="#">View Document</a>

#### 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:**

The institute has created an atmosphere of inclusiveness through various activities like 'Sarva Dharma Prarthana Sabha' and celebration of festivals like Lohri, Saraswati Puja, Ganesh Puja, Vishwakarma Puja, Diwali, Christmas, Iftar Party, Garba which promote harmony and tolerance. GGSESTC frequently organizes prayers and langar.

The institute's stakeholders are from various parts of the country. Our institute celebrates 'National Hindi Day' and 'International Mother Language Day', where talks and ideas are presented in multiple languages, such as English, Hindi, Tamil, Punjabi, Bengali. The college celebrates 'International Tribal Day' every year.

The college proudly celebrates national festivals with full enthusiasm. The Preamble of the Constitution is displayed in the main building. Our students participate in the National Voter Awareness Quiz Competition. A quiz session was organized at the institute after a lecture on the topic 'Eradicate Corruption – Build a New India'. All events at GGSESTC end with the National Anthem. Always keeping the great ideals as its inspiration, GGSESTC has been celebrating birth anniversaries of freedom fighters and scientists like Mahatma Gandhi, Dr. A.P. J. Abdul Kalam. A peaceful candle march was taken out to pay tribute to the soldiers martyred in the Pulwama terror attack.

As part of its social responsibilities, our institution made its premises available for quarantine centres during the COVID-19 pandemic. The institute has conducted COVID-19 vaccine drives twice during the lockdown period. An online awareness program on COVID protocols was also organized.

Everyone at GGSESTC celebrates 'Jal Diwas' and 'World Environment Day' with great enthusiasm by planting saplings to keep the campus green. Many steps have been taken towards nature like 'one student

one plant'. Not only this but saplings are also planted by invited guests on almost every occasion at the institute. GGSESTC regularly organizes Prabhat Pheri on 'Swachh Bharat: Swasth Bharat'. In collaboration with NGOs, students of GGSESTC organize blood donation camps every year.

As an engineering college, we celebrate 'Engineers Day', 'Mathematics Day', and 'Science Day' every year with debates, projects, and models on sustainable development and eco-friendly models of economic growth. A workshop titled 'Industrial and Fire Safety' was organized at the institute. A seminar on 'Entrepreneurship Development' was organized to promote entrepreneurship, and session talks by experts on 'National Security Paradigm and Asymmetric Warfare' were held.

Film Division, GGSESTC has made a short film titled **Ek Mat** and uploaded it on the official YouTube channel of the Institute. The Institute has also made a film titled 'Spandan' based on dowry and rural education which was screened in the National Film Festival on Rural Development organized by NIRDPR, Hyderabad in November 2022. The Institute is continuously working with JIADA, Bokaro as per the signed MoU and has also made a film titled 'Fire Bird' describing the role and activities of JIADA.

Administrative Officer of GGSESTC is an acclaimed litterateur with many published stories and novels to her credit. Currently her third novel 'Suryavart' is being serially published in 'PAKHI', the leading literary magazine of the Independent Media Initiative Society, New Delhi.

File Description	Document
Provide Link for Additional information	<a href="#">View Document</a>

## 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 Practices – I**

**1. Title of practice:**

ASR (Academic Social Responsibilities) through extension activities.

**2. Objective of the practice:**

Through ASR, students are encouraged to promote community linkage, fulfill social responsibility and interaction with the public in society, participation in extension activities that imparts problem analyzing and solving skills.

### 3. The Context :

The college organizes a number of extension activities to promote institute-neighborhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities such National Service Scheme (NSS) and 'Unnat Bharat Abhiyan' (UBA) leading to their overall development.

### 4. The Practice:

College organized state level science exhibition JSITE, Voter's awareness program, Blood donation camp, Alumni day, Fire Birds documentary movie for JIADA, Hasya Kavi Sammelan "Thahaka", motivational speech by Honorable VC JUT, Ranchi, Premiere show of 'Spandan' Movie, fit India campaign, Swachchatta Pakhwada(one week) , village activities by institution in association with NGOs and barrier free access of drinking water and toilet facilities in villages, Swedeshi Jagran Sangosthi, Sur Sangam, Plantation drive under MHRD and good governance practices.

Extension programs are attended by sponsored college for awareness of students.

**Pandemic time:** This was the most crucial phase for entire world and even in that tough phase, our college GGSESTC was deeply involved in serving the society through various ways, remain quarantine centre for a longer period to support government in dealing with covid pandemic.

Time to time various activities organized by NGOs and government bodies are held in our college. All these activities are shown in various TV channels, hindi and english newspapers.

**Food Camps:** During the pandemic, lakhs of people were detached from the jobs which lead to starvation and bread butter issue to the society. Even in that situation our college arranged free lungars in coordination with Gurudwaras.

Prize distribution through various events for different schools (private and government) are conducted where more than 500 students were participated.

**Covid Vaccination Camp for society and college staffs:** GGSESTC not only helped in developing support mechanism for government but also initiated and augmented the speed of government driven vaccination camps for all by arranging two days covid vaccination camp at GGSESTC Campus.

### 5. Evidence of success:

- Our Institution is certified as 'Eat Right CAMPUS' by Food Safety and Standards Authority of India (FSSAI).
- Our Institution has got certificate of appreciation by Blood Bank, IRCS, Bokaro.
- Our college has established an Institution's Innovation Council (IIC) in the campus for development and research of students at national level.
- Our Institution has got Prashasti Patr (citation) for Voter Awareness Program.
- The students develop the quality of integrity through the extension activity.
- Student's participation in various social-cultural activities has greatly increased.
- Appreciation certificates and media coverage for these extension activities for scholarship and technical education

## **6. Problems encountered and resource required:**

The institute being an affiliated college of a public university has less autonomy in terms of admission and curriculum development. After NAAC accreditation, the institute will go for autonomous status and will be able to overcome this challenge.

### **Best Practices - II**

#### **1. Title of the Practice:**

Means and Merit scholarships for inclusive education.

#### **2. Objectives of the Practice:**

- To fulfill this, underprivileged students are monitored for their academic as well as career development.
- Societal responsibility of uplifting students from rural areas to face the global challenges of the industry.
- Encourage the meritorious students to pursue their higher goals.
- Educational challenges due to poor socio-economic backgrounds of rural families can be addressed by implementing such scholarships and rebate in fees for deserving and meritorious students.

#### **3. The Context:**

College provides different scholarship schemes that help the students to avail quality education at affordable fees. The global aspirations of rural students are realized with the support system of financial assistance provided by the institute at various levels.

College aims to provide scholarship and financial support to needy and meritorious students for inclusiveness. The objective is to ensure that no meritorious student is deprived of entry into any professional course due to lack of finance.

College has a scholarship department which helps the underprivileged students to apply for various state government and central government scholarship belonging to various reserve categories as well as economic weaker section of the society.

At every level college not only provides the financial assistance to the students but also makes sure that students should get the maximum benefits and learning outcome during their course work.

#### **4. The Practice:**

- Since the inception of this college, its management proactively supports students from humble background. College has taken a firm resolve to extend all possible financial support to the deserving and needy students and help them to realize their dream of acquiring higher education. The college aims at providing financial assistance to the poor or needy at the same time to the

students who are excellent in their respective field such as academic, co-curricular, extra-curricular, extension and sports.

- Every year scholarships are provided by the institution at the time of admission procedures conducted by admission cell. There are two ways of scholarship schemes, one is Scholarship Aptitude Test (SAT) (Merit-cum means based) and another is percentage wavers for deserving and meritorious students. At the time of admission, applications are invited for SAT and other scholarship.
- To provide financial assistance to deserving and needy students, the management extends the financial support to all the deserving and needy students without any discrimination of caste, creed or gender.
- Various awareness is given through newspapers and social media regarding this scholarship.

## 5. Evidence of Success

Total no of students got benefited	Year	Institute Scholarship amount
42	2018-19	Approx. 6 lakh
101	2019-20	Approx.18 lakh
111	2020-21	Approx.23 lakh
219	2021-22	Approx.69 lakh
153	2022-23	Approx.25 lakh

## 6. Problems encountered and resources required

Although the college management provides good amount of financial assistance to the students every year, it can be further enhanced if the grants are generously received from various government authorities.

File Description	Document
Best practices as hosted on the Institutional website	<a href="#">View Document</a>

## 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:**



**GGSESTC** is showing its priority and distinctiveness through the Institute-Industry-Governance-Research (IIGR) interface. Through Institute Industry Governance and Research(IIGR), our institute is providing opportunity to all faculty members and students by creating an ecosystem to make GGSESTC distinct from other colleges.**IIGR** organise internship, training, consultancy programs and creates opportunity with our MoU partners. Sign MoU and contracts with the government, non-government and corporate sector, create linkage with local administration and agencies. The success stories of IIGR are as follows:

- We are the only private engineering college in Jharkhand who received National level Atal Faculty development program(ATAL FDP) with grant from AICTE,New Delhi, (Govt. of India).
- We have the highest number of patents among Pvt Engineering & Management College in Eastern India.
- Eminent faculty members are invited for expert lectures in ICAR, ESL/Vedanta, and foreign Institutions.
- We have a maximum number of Ph.D. pursuing faculty/GATE/NET/SET faculty in national level or public university.
- AICTE /JUT granted permission for working professional in B.Tech & MBA.
- AICTE has granted status of Facilitation Centre for BBA/BCA to college
- We have received awards and appreciation from various reputed government and non-government organization including AICTE, New Delhi, Jharkhand University of Technology, Ranchi, Jharkhand, District administration, Bokaro.
- GGSESTC has signed a MoU with JIADA Bokaro, ICAR-IIAB (Indian Council of Agricultural Research-Indian Institute of Agriculture and Biotechnology), Ranchi, ESL-Vedanta, Bokaro
- GGSESTC is facilitated as a centre for 'Entrepreneurship online course' by JUT, Ranchi in which 911 students have been registered so far including students from other affiliated colleges also.
- Students are given the opportunity to attend lectures by experts from USA e.t.c
- We regularly organise FDPs/ seminars/ workshops.
- One of our faculty members received the best teacher award from the Indian Society for Technical Education (ISTE).

**Under the Institute Industry Interface, the following actions have been taken:**

We are working in association with government sponsored program like 'Unnat Bharat Abhiyan 2.0' supported by MHRD.

AICTE has granted the Margdarshak Scheme to our college for providing guidance for NBA , Accreditation.

The college has very good linkage with local district administration. The central and state governments conduct with/at GGSESTC various programs and examinations in the college & utilizes infrastructure facilities, computers, internet & human resources.The various examinations conducted in our college are home guard(district level exam), JPSC preliminary exam, JPSC CGL, NTA, JEE Mains, CUET, NET, Chaukidar(District level exam) exam etc.

Discharging social responsibility during the pandemic, we have provided our infrastructure/resources to be used as quarantine center and given aid to relief funds.

Our college has given consultancy services by performing various lab tests and provided tests report to

the following agencies:

1. Ray Construction
2. Sundaram Steel Pvt. Ltd
3. Under social welfare, our college provided consultancy to ISKON

Other programs that we have in our college is N.S.S, supported by ministry of youth welfare government of India.

For creating opportunity as entrepreneurs for students and giving height to their career, our college has successfully conducted “Entrepreneurship Development Program” supported by MSME, Ranchi, Government of India. Various programs like seminars, presentations and interaction sessions were organized by MSME officials with the students in which various information/knowledge upon entrepreneurship skills and business strategy were discussed. For developing the entrepreneurship ecosystem, information about subsidies, government fund for startup and strategy were discussed with the students. These types of programs improve the ease of start-ups after their degree program.

Out of many more, major one is that we are having industrial collaboration with JIADA (Jharkhand industrial area development authority). JIADA is responsible for development of industrial areas in the state. The responsibilities of JIADA are land acquisition, developing infrastructure facilities like roads, drainage, water supply and public utilities.

We have signed a bilateral MoU with JIADA in which our college is providing consultancy related to water and electricity supply problems. JIADA is providing internship, industrial tour, training and placement assistance to our students.

Following are the work completed with JIADA.

1. Troubleshooting water problem - Our College has conducted a peer visit to the industrial area and its neighboring village for surveying water supply facilities. Our team submitted a brief report on the problems and how to troubleshoot them.
2. Troubleshooting electricity problem - Similar to water supply, our peer team visited JIADA for problems in the electricity supply system and submitted remedial solution of the problems
3. Our college has prepared a website for JIADA, inaugurated by the honourable CM of Jharkhand.
4. The film division of our college has prepared a 15 minute film for JIADA called “fire Bird” which is about exploring JIADA facilities and ease of documentation is explained (Video is available on you tube)

### **Facilities provided by JIADA**

**Internship:** JIADA provides paid internships to the students of GGSESTC in government and semi-government companies like HPCL, Dalmia cement, Electro steel.

**Placement:** Companies associated with JIADA came for a placement drive and recruited a number of students in reputed companies like TATA projects limited, Shree Bholey Alloys private limited.

Dalmia Cement (Associated with JIADA) sponsored Rs 5000/- for conducting a national conference in

college.

Our college is providing educational tours to students of government schools across our district to providing technical exposure under the government scheme “Professional education program”. Under this scheme, students of ICAR -IIAB ) and other schools visited our campus for technical exposure and exploring labs and other academic activities.

File Description	Document
Appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

---

### **Additional Information :**

The institute stands out amidst the plethora of institution as a distinctive holistic education hub that offers unique opportunities for students to develop in various respective professional fields of their choice and at the same time develop a global vision with responsible citizens of the country. Apart from the technical education in the field of engineering, management, fashion and application students are encouraged to become successful entrepreneurs. The college has a functional MoU with JIADA, Govt. of Jharkhand (a body which provides land and other benefits like loans, subsidies to entrepreneurs). The college organizes EDPS Entrepreneurs development program with the assistance of MSME, DI, Ranchi Bankers and other professional bodies. The college has been appreciated by state president JSTSBEA, Bokaro for promoting entrepreneurship in college.

### **Concluding Remarks :**

The institute has progressed to becoming one of the best engineering and management institutes in the state and its affiliating university JUT, Ranchi, from few courses to offering a plethora of academic programs. The institute kept marching ahead with changing time, adopting to the changes with keeping a spirit of tradition and modernity. The institution has always set new goals and benchmarks to attain maximum satisfaction and happiness among the students holistic education and improving the continuous capacity building of students as good human beings and inspiring professionals.

Creative and Innovative Pedagogy: Enhancing professional skills the institute offers executive certificate courses, advance courses, communication skills through communication skill laboratory with the latest software, and excursions. Industrial tour, orientation and induction programs and participative as well as experimental keeping the vision and mission of the institution at the forefront, the institution create beauty best of facilities, progress with sustainability. The post-Covid-19 world, GGSESTC, is putting its efforts to achieve its goal.