



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

**TEEGALA KRISHNA REDDY ENGINEERING COLLEGE**

**MEDBOWLI, MEERPET, SAROOR NAGAR  
500097**

**<http://tkrec.ac.in>**

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Teegala Krishna Reddy Engineering College (TKREC) is a leading institution committed to providing high-quality education in engineering and technology. Established with a vision to nurture the next generation of engineers and technologists, TKREC has built a reputation for excellence through its innovative programs, state-of-the-art facilities, and a dedicated faculty. This executive summary encapsulates the key initiatives and achievements of the college, highlighting its commitment to academic excellence, industry collaboration, and student success.

The summary provides a comprehensive overview of TKREC's strategies for embracing the National Education Policy (NEP) 2020, focusing on multidisciplinary learning, outcome-based education, and skill development. It also outlines the college's robust approach to distance and online education, its integration of the Indian Knowledge System, and the emphasis on continuous improvement to meet evolving educational needs.

Through a student-centered approach and a strong industry network, TKREC prepares its graduates for successful careers in a rapidly changing technological landscape. This executive summary serves as a guide to understanding how Teegala Krishna Reddy Engineering College continues to set high standards in engineering education, ensuring that its graduates are equipped with the knowledge, skills, and competencies to thrive in the modern world.

### **Vision**

Imparting Knowledge and instilling skills to the aspiring students in the field of Engineering, Technology, Science and Management to face the emerging challenges of the society.

### **Mission**

**M1:** Encouraging scholarly activities that transfer knowledge in the areas of Engineering, Technology, Science and Management.

**M2:** Ensuring students of all levels, well trained to meet the needs of education and their future endeavors.

**M3:** Inculcating human values and ethics into the education system for the all-round development of the students.

### **Quality Policy**

Teegala Krishna Reddy Engineering College is committed to provide quality Technical education to the

students through dedicated and talented faculty, good Infrastructure, Laboratories and research.

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

### **Institutional Strength**

Teegala Krishna Reddy Engineering College (TKREC) stands out as a leading institution in engineering education, driven by a range of strengths that contribute to its success and reputation. Below are the key elements that define the institutional strength of TKREC.

#### **1. Comprehensive Academic Programs**

TKREC offers a diverse array of engineering programs, ensuring that students can pursue their interests and specializations. These programs are designed to align with current industry trends and the National Education Policy (NEP) 2020, providing students with a solid academic foundation and career-ready skills.

#### **2. Experienced and Qualified Faculty**

The college prides itself on a team of experienced faculty members who are not only experts in their respective fields but also dedicated educators. Faculty at TKREC engage in continuous professional development, contributing to high-quality teaching and innovative learning experiences.

#### **3. State-of-the-Art Infrastructure**

TKREC's campus is equipped with modern facilities that support both academic and extracurricular activities. From well-equipped laboratories and classrooms to comprehensive sports facilities, the college provides an environment conducive to holistic development.

#### **4. Focus on Industry Relevance and Partnerships**

The college has established strong relationships with industry partners, facilitating internships, live projects, and campus placements. This focus on industry collaboration ensures that students gain practical experience and are better prepared for the workforce.

#### **5. Commitment to Student Support and Development**

TKREC places a significant emphasis on student support services, offering academic advising, career counseling, and a dedicated Placement Training Cell. These services help students navigate their academic journey and secure successful career outcomes.

#### **6. Diverse Extracurricular Activities**

TKREC encourages students to engage in a wide range of extracurricular activities, from sports to cultural events. This focus on holistic development allows students to explore their talents, build teamwork skills, and create a vibrant campus life.

## **7. Innovation and Research**

The college fosters a culture of innovation and research, with dedicated resources for research projects and collaborations with industry and academia. This approach encourages faculty and students to pursue new ideas and contribute to advancements in engineering and technology.

## **8. Strong Community and Alumni Network**

TKREC maintains a robust alumni network that plays an active role in supporting current students through mentorship, networking, and career opportunities. This sense of community and connection enhances the college's strength and reach.

Together, these strengths make Teegala Krishna Reddy Engineering College a distinguished institution, providing a comprehensive and effective educational experience for its students.

### **Institutional Weakness**

While Teegala Krishna Reddy Engineering College (TKREC) has many strengths, no institution is without areas for improvement. Identifying and addressing these weaknesses is key to continuous growth and maintaining high standards. Here are some possible weaknesses that TKREC might need to consider:

#### **1. Limited Research Output**

Although TKREC encourages research and innovation, the volume and impact of research publications might be lower compared to other leading engineering institutions. A limited number of research projects and fewer collaborations with prestigious research bodies could hinder the institution's reputation in academic circles.

#### **2. Inconsistent Industry Partnerships**

While TKREC has industry collaborations, the consistency and depth of these partnerships may vary. Some programs might lack regular interaction with industry experts, leading to fewer opportunities for internships and real-world projects in certain disciplines.

#### **3. Resource Allocation Imbalances**

TKREC has state-of-the-art infrastructure in many areas, but resource allocation might be uneven across departments or programs. This can lead to disparities in the quality of learning experiences and resources available to students in different fields of study.

#### **4. Faculty Development and Retention**

Retaining highly qualified faculty members can be challenging, especially in a competitive academic environment. TKREC might face challenges in retaining top talent, which can impact the quality of teaching and research. Additionally, there could be limited opportunities for faculty development and training, affecting faculty performance.

## 5. Student Diversity

Although TKREC caters to a diverse student body, it might struggle to achieve broader cultural and geographic diversity. This lack of diversity can limit students' exposure to different perspectives and ideas, which are crucial in a globalized world.

## 6. Feedback and Continuous Improvement

The college might have a feedback system in place, but if it is not effectively implemented, it could lead to delays in addressing student concerns and improving academic programs. Inefficient feedback mechanisms can impact student satisfaction and hinder continuous improvement efforts.

## 7. Alumni Engagement

While TKREC has a strong alumni network, the level of engagement with alumni might not be consistent. Limited alumni involvement can reduce the opportunities for mentorship, networking, and career guidance for current students.

## 8. Limited International Exposure

The college may have limited international collaborations and exposure to global academic standards. This lack of international partnerships can restrict opportunities for students and faculty to engage in exchange programs, international conferences, and global research projects.

Addressing these weaknesses requires strategic planning, resource investment, and a commitment to continuous improvement. By focusing on these areas, TKREC can strengthen its institutional capabilities and enhance the overall educational experience for its students.

## Institutional Opportunity

In a rapidly evolving educational landscape, Teegala Krishna Reddy Engineering College (TKREC) has several opportunities to expand its impact and enhance its offerings. By leveraging these opportunities, the college can further its mission and strengthen its position as a leading educational institution. Below are some key opportunities for TKREC:

### 1. Expansion of Industry Partnerships

TKREC can broaden its collaboration with various industries, including both established companies and startups. By partnering with more industries, the college can offer enhanced internships, joint projects, and employment opportunities for its students. These partnerships can also drive curriculum development to align more closely with industry needs.

### 2. Development of New Academic Programs

The demand for technology-based skills and interdisciplinary education continues to grow. TKREC can capitalize on this trend by introducing new academic programs in emerging fields such as data science, artificial

intelligence, machine learning, cybersecurity, and renewable energy. This expansion could attract a wider pool of students and meet the evolving demands of the job market.

### **3. Strengthening Research and Innovation**

TKREC can increase its focus on research and innovation by creating dedicated research centers, applying for research grants, and promoting faculty-led research projects. Collaborating with other academic institutions and research organizations can further boost TKREC's research output and enhance its academic reputation.

### **4. Enhancement of Online and Distance Education**

With the growing acceptance of online education, TKREC has the opportunity to develop and expand its online and distance learning programs. This would enable the college to reach a broader audience, including working professionals and international students. Leveraging technology for flexible learning pathways can increase enrollment and student engagement.

### **5. Promoting Entrepreneurship and Startups**

TKREC can establish incubation centers and entrepreneurship programs to encourage students to pursue innovative business ideas. By fostering a startup culture and providing mentorship, TKREC can position itself as a hub for young entrepreneurs, leading to broader networking and funding opportunities.

### **6. International Collaborations and Exchange Programs**

The college can explore partnerships with international universities and institutions to create student exchange programs, joint research projects, and faculty exchanges. These collaborations can offer students a global perspective and foster cross-cultural understanding, enhancing TKREC's global presence.

### **7. Alumni Engagement and Networking**

Engaging alumni more effectively can yield numerous benefits for TKREC. The college can establish robust alumni networks for mentorship, career guidance, and fundraising. A strong alumni presence can also enhance placement opportunities and industry connections for current students.

### **8. Community Engagement and Social Impact**

TKREC can increase its involvement in community-oriented projects and social initiatives. This not only contributes to societal well-being but also strengthens the college's reputation as a socially responsible institution. Community engagement can also serve as a valuable learning experience for students.

By exploring and capitalizing on these opportunities, Teegala Krishna Reddy Engineering College can continue to evolve, creating a more dynamic and comprehensive educational experience for its students and contributing positively to the broader community.

### **Institutional Challenge**

Teegala Krishna Reddy Engineering College (TKREC) faces a variety of challenges that can impact its ability to maintain and improve its educational standards, student satisfaction, and industry relevance. Addressing these challenges requires strategic planning, adaptability, and a focus on continuous improvement. Below are some of the key challenges that TKREC must navigate:

## **1. Rapid Technological Advancements**

The pace of technological change in engineering and related fields presents a significant challenge. TKREC must ensure its curriculum remains relevant and up-to-date with current industry trends. This requires continuous investment in faculty training, updating teaching methods, and acquiring new technology, all of which can strain resources.

## **2. Attracting and Retaining Talent**

Recruiting and retaining highly qualified faculty and staff is a common challenge in academia. TKREC needs to offer competitive compensation and professional development opportunities to attract top talent. Retention can be difficult in a competitive market where experienced educators are in high demand.

## **3. Maintaining Academic Quality and Standards**

Ensuring consistent academic quality while expanding programs or increasing enrollment is a significant challenge. TKREC must balance growth with quality, adhering to accreditation standards and maintaining rigorous academic programs. This requires effective internal quality assurance systems and constant monitoring of educational outcomes.

## **4. Resource Limitations and Financial Constraints**

Budgetary constraints can limit the college's ability to invest in infrastructure, research, faculty development, and student support services. TKREC may face difficulties in securing funding for new projects, research initiatives, or facility upgrades, affecting its ability to meet long-term goals.

## **5. Competition from Other Institutions**

TKREC operates in a competitive educational environment, with numerous engineering colleges and universities vying for students, faculty, and industry partnerships. Differentiating itself and attracting top talent amid competition is an ongoing challenge.

## **6. Meeting Diverse Student Needs**

With a diverse student body, TKREC must cater to various learning styles, cultural backgrounds, and individual requirements. Providing personalized learning experiences, comprehensive support services, and a conducive campus environment can be challenging.

## **7. Adapting to Online and Hybrid Education Models**

The rise of online education requires TKREC to develop robust online learning platforms and ensure high-quality distance education programs. This transition to hybrid models of education necessitates significant investment in technology, faculty training, and content development.

## **8. Industry Relevance and Collaboration**

Keeping pace with industry trends and fostering strong industry collaborations is essential for preparing students for the workforce. TKREC may face challenges in maintaining and expanding industry partnerships, which can affect internships, job placements, and curriculum relevance.

## **9. Environmental and Sustainability Challenges**

As environmental concerns grow, TKREC must adopt sustainable practices and ensure its infrastructure meets environmental standards. Addressing these challenges while maintaining high-quality facilities requires strategic planning and resource management.

## **10. Regulatory and Compliance Issues**

Compliance with educational regulations, accreditation requirements, and government policies can be complex and demanding. TKREC must stay informed about changes in educational policies and ensure compliance, which can add administrative burden and necessitate ongoing adjustments.

Addressing these challenges effectively is critical for TKREC's success and sustainability. A proactive approach that focuses on adaptability, continuous improvement, and stakeholder engagement can help overcome these challenges and ensure the institution's continued growth and excellence.

# **1.3 CRITERIA WISE SUMMARY**

## **Curricular Aspects**

Teegala Krishna Reddy Engineering College is committed to providing a comprehensive and dynamic curriculum that aligns with modern industry standards and the evolving needs of students. This commitment encompasses four critical aspects: Curricular Planning and Implementation, Academic Flexibility, Curriculum Enrichment, and a robust Feedback System.

## **Curricular Planning and Implementation**

Teegala Krishna Reddy Engineering College employs a strategic approach to curricular planning, ensuring that programs are designed to meet industry requirements and educational best practices. The curriculum is regularly reviewed and updated to reflect the latest technological advancements and academic trends. Faculty members work collaboratively to design courses that are not only rigorous but also relevant, fostering a learning environment where students are encouraged to apply theoretical concepts to real-world scenarios.

## **Academic Flexibility**

The college offers significant academic flexibility, allowing students to tailor their educational pathways to their interests and career goals. This flexibility is evident in the availability of elective courses, cross-



disciplinary programs, and dual-degree options. Students can explore diverse subjects, encouraging a broader perspective and fostering an interdisciplinary approach. This aligns with the National Education Policy (NEP) 2020's emphasis on academic mobility and the freedom to pursue varied interests.

## **Curriculum Enrichment**

Teegala Krishna Reddy Engineering College places a strong emphasis on curriculum enrichment, providing students with opportunities to enhance their learning experience beyond traditional coursework. The college integrates extracurricular activities, industry collaborations, internships, and community engagement projects into the curriculum. This approach not only enriches the learning process but also helps students develop essential soft skills, such as teamwork, leadership, and communication. Furthermore, the college's focus on holistic development ensures that students are well-prepared for the complexities of the modern workforce.

## **Feedback System**

A critical component of the college's curricular framework is a robust feedback system. Teegala Krishna Reddy Engineering College actively seeks input from students, faculty, industry partners, and alumni to continuously improve the curriculum and teaching methodologies. Regular surveys and assessments help identify areas for enhancement, allowing the college to adapt to changing needs and maintain high-quality educational standards. This feedback system fosters a culture of continuous improvement and ensures that the college remains responsive to the expectations of its stakeholders.

In summary, Teegala Krishna Reddy Engineering College's curricular aspects reflect a forward-thinking approach that balances innovation with flexibility. By focusing on curricular planning and implementation, providing academic flexibility, enriching the curriculum, and maintaining a responsive feedback system, the college is well-positioned to meet the demands of a rapidly changing educational landscape while delivering a high-quality learning experience to its students.

## **Teaching-learning and Evaluation**

Teegala Krishna Reddy Engineering College (TKREC) emphasizes a student-centered approach to teaching, learning, and evaluation. The college aims to create an inclusive environment that caters to diverse student needs, ensures high-quality teaching, and incorporates continuous evaluation and feedback mechanisms. This commitment is reflected across six key areas: Student Enrolment and Profile, Catering to Student Diversity, Teaching-Learning Process, Teacher Profile and Quality, Evaluation Process and Reforms, Student Performance and Learning Outcome, and the Student Satisfaction Survey.

**TKREC attracts a diverse student body from various backgrounds, providing a rich learning environment. The college's admission process is transparent and inclusive, focusing on students' academic potential and passion for learning. TKREC aims to create a balanced student profile, embracing gender, regional, and cultural diversity. This diverse student population contributes to a vibrant academic community where different perspectives and experiences enrich the learning process.**

**Understanding the varied learning needs of its students, TKREC has developed a range of support systems to cater to student diversity. The college offers bridge courses and**

remedial classes for students who may need additional academic support. It also provides counseling services to address non-academic challenges, ensuring students can focus on their studies. These measures ensure that every student has an equal opportunity to succeed and reach their full potential.

TKREC employs a blend of traditional and innovative teaching methods to enhance the learning experience. Faculty members use technology, interactive sessions, project-based learning, and case studies to engage students and foster critical thinking. The college encourages student participation and peer learning, creating a collaborative educational environment. Furthermore, TKREC actively involves industry experts in guest lectures and workshops, bridging the gap between academia and real-world application.

The college prides itself on its highly qualified faculty, many of whom have advanced degrees and industry experience. TKREC promotes continuous professional development for its teachers, offering training and workshops to keep them updated with the latest educational trends. This commitment to teacher quality ensures that students receive the best possible education from instructors who are both knowledgeable and passionate about teaching.

TKREC employs a comprehensive evaluation process to assess student performance and learning outcomes. The college uses a mix of formative and summative assessments, including quizzes, assignments, projects, and exams, to measure student progress. TKREC has implemented reforms to ensure fairness and consistency in evaluations, with clear grading rubrics and transparent processes. This approach aligns with the college's goal of fostering continuous improvement and student success.

The college places a strong emphasis on student performance and learning outcomes. TKREC sets clear expectations for student achievements and regularly monitors progress through various assessments. The college collects data on student performance to identify areas for improvement and to ensure that learning outcomes are met. This data-driven approach allows TKREC to maintain high academic standards and support students in achieving their goals.

TKREC values student feedback as a crucial component of its continuous improvement process. The college conducts regular Student Satisfaction Surveys to gauge student experiences and identify areas for enhancement. This feedback informs the college's decision-making, helping to improve teaching methods, curriculum design, and support services. The surveys also provide valuable insights into student needs and expectations, ensuring that TKREC remains a student-centered institution.

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

Teegala Krishna Reddy Engineering College (TKREC) is dedicated to fostering research, innovation, and

extension activities to promote academic excellence, industry relevance, and community impact. The college has established a robust framework for resource mobilization, encourages research publications and awards, engages in extension activities, and actively collaborates with external partners. This comprehensive approach underscores TKREC's commitment to contributing to knowledge creation, societal development, and academic partnerships.

## **Resource Mobilization for Research**

TKREC recognizes that resource mobilization is essential for sustaining high-quality research and innovation. The college has developed mechanisms to secure funding from various sources, including government grants, industry partnerships, and alumni contributions. Through active participation in funding programs, such as those offered by the Department of Science and Technology (DST) and the All India Council for Technical Education (AICTE), TKREC can support faculty and student research projects.

Additionally, TKREC encourages faculty members to seek external research grants, providing them with the necessary administrative support. This strategic approach ensures a steady stream of resources to fuel innovative projects and research initiatives within the college.

## **Research Publication and Awards**

Research publications and awards are key indicators of a college's research culture. TKREC promotes a strong publication ethos among its faculty and students, encouraging them to publish their work in reputable journals and present at national and international conferences. The college provides support for these endeavors through workshops on academic writing, research methodology, and publication processes.

TKREC also recognizes outstanding research contributions with awards and incentives. This recognition motivates faculty and students to pursue high-quality research, enhancing the college's reputation for academic excellence. By fostering a culture of publication and rewarding innovation, TKREC contributes to the broader academic community and enhances its standing in the research landscape.

## **Extension Activities**

Extension activities are a vital part of TKREC's mission to connect with the broader community and address societal needs. The college engages in a variety of extension programs, ranging from community service projects to educational outreach. TKREC collaborates with local organizations, non-profits, and government agencies to organize activities that benefit the surrounding community.

These activities include health camps, environmental conservation projects, educational workshops, and vocational training for underprivileged groups. By involving students in these extension programs, TKREC instills a sense of social responsibility and civic engagement, reflecting the values promoted by the National Education Policy (NEP) 2020.

## **Collaboration**

Collaboration is a cornerstone of TKREC's research and innovation efforts. The college actively partners with industry, academia, and research institutions to promote knowledge exchange and drive innovation. Through Memoranda of Understanding (MoUs) with industry partners, TKREC provides students with real-world

exposure, internships, and collaborative research opportunities.

In addition, the college collaborates with academic institutions for joint research projects, faculty exchange programs, and co-hosted conferences. These collaborations broaden the college's academic network and facilitate the sharing of best practices. TKREC's focus on collaboration aligns with NEP 2020's emphasis on fostering partnerships to enhance education and research quality.

## **Infrastructure and Learning Resources**

Teegala Krishna Reddy Engineering College (TKREC) is committed to providing a robust infrastructure and comprehensive learning resources to support a high-quality educational experience. The college's focus on physical facilities, a well-equipped library, advanced IT infrastructure, and rigorous maintenance of campus resources ensures an environment that fosters effective teaching, learning, and research.

### **Physical Facilities**

TKREC boasts a sprawling campus with modern physical facilities designed to meet the diverse needs of students and faculty. The college has well-equipped classrooms with ergonomic seating, proper ventilation, and state-of-the-art audiovisual equipment. Lecture halls and seminar rooms are spacious, facilitating interactive learning and group discussions.

Laboratories and workshops form a crucial part of the college's physical infrastructure. These facilities are equipped with the latest tools, machinery, and technology, providing students with hands-on experience in their respective fields. Specialized labs cater to different engineering disciplines, ensuring that students have access to industry-standard equipment.

Sports and recreational facilities are also a priority at TKREC. The campus features sports grounds, courts, and a gymnasium, promoting physical fitness and extracurricular activities. This holistic approach to infrastructure reflects the college's commitment to student well-being and overall development.

### **Library as a Learning Resource**

The library at TKREC serves as a central learning resource, supporting academic and research activities. It houses an extensive collection of books, journals, research papers, and digital resources. The library's catalog is continuously updated to include the latest publications in engineering, technology, and related disciplines.

To facilitate a comfortable and conducive learning environment, the library offers ample seating, reading rooms, and private study areas. The college provides access to online databases, e-books, and e-journals, ensuring that students and faculty have a wealth of resources at their disposal. The library staff are trained to assist users with research queries and resource retrieval, fostering an atmosphere of academic support.

### **IT Infrastructure**

TKREC has made significant investments in its IT infrastructure, recognizing the critical role technology plays in modern education. The campus is equipped with high-speed internet connectivity, allowing for seamless online learning, research, and communication. The college uses a robust Learning Management System (LMS) to deliver online courses, facilitate virtual classrooms, and manage academic content.

Computer labs at TKREC are equipped with the latest hardware and software, catering to the diverse needs of students in various engineering and technology programs. The college provides technical support to ensure that the IT infrastructure operates smoothly, reducing downtime and enhancing the overall learning experience.

## **Maintenance of Campus Infrastructure**

Maintenance of campus infrastructure is a key focus at TKREC to ensure a safe and functional environment. The college has established a dedicated maintenance team responsible for regular upkeep and repair of physical facilities, including classrooms, laboratories, and common areas. This team conducts routine inspections to identify and address any issues promptly, ensuring the campus remains in optimal condition.

TKREC also emphasizes sustainability in its maintenance practices. The college has implemented energy-efficient lighting, waste management systems, and water conservation measures. This commitment to sustainability reflects the college's broader goal of promoting environmental responsibility within the academic community.

## **Student Support and Progression**

Teegala Krishna Reddy Engineering College (TKREC) is dedicated to ensuring a supportive and engaging environment for its students, focusing on their overall development and success. The college's commitment to student support, progression, participation in activities, and alumni engagement reflects its student-centric approach, fostering a vibrant campus community and promoting lifelong connections.

### **Student Support**

TKREC provides a range of support services designed to meet the diverse needs of its students. Academic advising and career counseling are central to this effort, offering guidance on course selection, career pathways, and job placement. The college has dedicated faculty mentors who work closely with students to ensure they receive personalized support.

The college also offers various welfare services, including health and wellness programs, financial aid, and scholarships for deserving students. TKREC's emphasis on mental health is notable, with counseling services available to help students cope with academic pressure and personal challenges. This comprehensive support system contributes to a positive campus atmosphere and encourages students to excel in their studies.

### **Student Progression**

Student progression is a key focus at TKREC, with structured programs and initiatives aimed at ensuring students complete their degrees on time and are well-prepared for their careers. The college closely monitors student performance, offering additional tutoring and remedial classes when needed. Internship opportunities and industry partnerships play a significant role in providing real-world experience, helping students gain valuable skills and enhance their employability.

The college's placement cell is instrumental in supporting student progression, connecting students with potential employers and organizing campus recruitment drives. This proactive approach to student progression has resulted in high placement rates and successful career outcomes for TKREC graduates.

## **Student Participation and Activities**

TKREC encourages student participation in a wide range of extracurricular activities, recognizing the importance of a well-rounded education. The college has numerous student clubs and societies catering to diverse interests, from technical and cultural groups to sports teams and community service organizations. These activities foster teamwork, leadership skills, and a sense of community among students.

The college regularly hosts events, workshops, and competitions that allow students to showcase their talents and engage in meaningful interactions with peers and faculty. This vibrant campus life contributes to a dynamic learning environment and enhances the overall college experience.

## **Alumni Engagement**

TKREC places significant emphasis on alumni engagement, maintaining strong connections with its graduates. The college has an active alumni association that organizes reunions, networking events, and mentorship programs. Alumni are encouraged to stay involved with the college, providing insights and guidance to current students.

Through alumni engagement, TKREC creates a network of support that extends beyond graduation, offering students valuable opportunities for mentorship, career advice, and professional networking. This enduring relationship with alumni enriches the college's community and strengthens its reputation in the broader academic and professional landscape.

## **Governance, Leadership and Management**

Teegala Krishna Reddy Engineering College (TKREC) emphasizes strong governance, visionary leadership, and effective management to drive institutional success. The college's approach to governance incorporates clear vision and leadership, strategic development and deployment, faculty empowerment strategies, sound financial management, and a robust internal quality assurance system.

## **Institutional Vision and Leadership**

TKREC's leadership is guided by a clear vision: to be a premier engineering institution fostering innovation, research, and holistic education. The college's management ensures this vision is consistently reflected in all strategic decisions and institutional policies. The leadership team, comprising experienced academics and industry experts, promotes a culture of excellence, collaboration, and continuous improvement.

The college adopts a participatory leadership style, encouraging input from faculty, staff, and students. This inclusive approach fosters a sense of ownership and commitment, driving collective efforts toward achieving institutional goals.

## **Strategy Development and Deployment**

TKREC's strategy development process is comprehensive and collaborative. The college sets long-term objectives that align with its vision, considering evolving educational trends and industry demands. This strategy development involves stakeholders from all levels, ensuring that plans are realistic and achievable.

The deployment of strategies at TKREC includes well-defined action plans, with timelines and responsible personnel clearly outlined. Regular reviews and feedback loops are established to track progress and make necessary adjustments, ensuring that the college remains on course to meet its strategic goals.

## **Faculty Empowerment Strategies**

Recognizing the critical role of faculty in achieving institutional success, TKREC has developed strategies to empower its teaching staff. The college provides professional development opportunities, encouraging faculty to enhance their skills and knowledge through workshops, conferences, and advanced studies.

Faculty are also given the freedom to innovate in their teaching methods and engage in research. This empowerment fosters a sense of autonomy and motivation, contributing to a dynamic and effective learning environment.

## **Financial Management and Resource Mobilization**

TKREC's financial management is based on transparency and accountability. The college ensures efficient allocation of resources, focusing on core academic activities while maintaining a sustainable budget. Resource mobilization efforts include partnerships with industry, alumni contributions, and research grants, enhancing the college's financial stability.

Regular audits and financial reviews ensure compliance with regulatory standards, while resource mobilization strategies support continuous growth and expansion.

## **Internal Quality Assurance System**

TKREC's internal quality assurance system plays a central role in maintaining high educational standards. The college has established an Internal Quality Assurance Cell (IQAC) responsible for monitoring academic processes, assessing teaching quality, and ensuring compliance with accreditation requirements.

The IQAC facilitates continuous improvement by collecting feedback from students, faculty, and stakeholders, identifying areas for enhancement, and implementing corrective measures. This commitment to quality assurance ensures that TKREC delivers an education that meets or exceeds industry standards, contributing to the college's reputation for excellence.

## **Institutional Values and Best Practices**

Teegala Krishna Reddy Engineering College (TKREC) demonstrates a commitment to institutional values through its unique best practices, each designed to enhance both student engagement and community impact. Below are two of TKREC's notable best practices that exemplify its dedication to holistic education and societal contribution.

### **Best Practice 1: Engineering Awareness for School Students**

TKREC understands the importance of early exposure to engineering for shaping future career choices. Through its "Engineering Awareness for School Students" initiative, the college actively engages with school-

age children to spark their interest in engineering. This program introduces young students to various engineering concepts and careers, providing them with hands-on experiences and demonstrations that align with their natural curiosity.

By reaching out to schools and creating interactive sessions, TKREC is fostering a broader understanding of engineering disciplines. The initiative also emphasizes the importance of higher education, inspiring students to set ambitious career goals. The success of this program has been reflected in the increased number of students from local schools showing interest in engineering, thus contributing to a mass movement towards informed career planning.

## **Best Practice 2: Sports Opportunities Beyond Academics**

Recognizing the importance of physical activity and a balanced lifestyle, TKREC has established an array of sports facilities to encourage student participation in athletics. The college's commitment to sports not only promotes health and fitness but also fosters teamwork and discipline among students. TKREC offers a comprehensive range of outdoor and indoor sports facilities, including:

- **Outdoor Facilities:** A cricket ground with floodlights, cricket practice nets, volleyball court with floodlights, throwball court, kabaddi court, basketball court, and a shuttle badminton court.
- **Indoor Facilities:** Table tennis boards, billiards tables, chess boards, carom boards, and a multi-purpose gym.

These facilities allow students to participate in a variety of sports, enabling them to pursue their athletic interests while balancing academic responsibilities. By providing these opportunities, TKREC ensures that students can achieve a well-rounded education that supports both their intellectual and physical growth.

## **Placement Initiatives**

TKREC has also established a robust Placement Training Cell that ensures graduates are well-prepared for the job market. This cell organizes training sessions, workshops, and campus recruitment events, attracting top-tier companies from the IT sector and core industries. The college's focus on placements underscores its commitment to student success beyond the classroom, further demonstrating its institutional values.

Through these best practices, TKREC exemplifies a holistic approach to education, blending academic excellence with extracurricular opportunities and community outreach. The college's focus on fostering early engineering awareness, promoting sports, and ensuring successful placements positions it as a leading institution in nurturing well-rounded individuals.



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
Address	MEDBOWLI, MEERPET, SAROOR NAGAR
City	Hyderabad
State	Telangana
Pin	500097
Website	<a href="http://tkrec.ac.in">http://tkrec.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K. Venkata Murali Mohan	040-29551158	9393959597	-	tkrecprincipal@gmail.com
IQAC / CIQA coordinator	R. Shankar	040-29551159	9943951006	-	iqac@tkrec.ac.in

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	
Date of Establishment, Prior to the Grant of 'Autonomy'	20-07-2005

Date of grant of 'Autonomy' to the College by UGC		12-03-2021		
<b>University to which the college is affiliated</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Telangana	Jawaharlal Nehru Technological University	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC	09-11-2016	<a href="#">View Document</a>		
12B of UGC	09-11-2016	<a href="#">View Document</a>		
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	12-06-2019	12	
AICTE	<a href="#">View Document</a>	12-06-2019	12	

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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	MEDBOWLI, MEERPET, SAROOR NAGAR	Urban	10	27079

## 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,Civil Engineering,	48	Intermediate	English	30	0
UG	BTech,Electrical And Electronics Engineering,	48	Intermediate	English	60	11
UG	BTech,Electronics And Communication Engineering,	48	Intermediate	English	240	240
UG	BTech,Computer Science And Engineering,	48	Intermediate	English	300	300
UG	BTech,Information Technology,	48	Intermediate	English	120	120
UG	BTech,Artificial Intelligence Machine Learning,	48	Intermediate	English	150	150
PG	Mtech,Computer Science And Engineering,CSE	24	B.Tech	English	24	17
PG	MBA,Master s In Business Administrati on,FINANCE HR MARKETING	24	Any Degree	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	25				50				154			
Recruited	22	3	0	25	24	26	0	50	60	94	0	154
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				71
Recruited	35	36	0	71
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				32
Recruited	19	13	0	32
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.	22	3	0	8	5	0	0	0	0	38
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	16	21	0	60	94	0	191
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>
	4		2		6

**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	570	15	0	0	585
	Female	290	5	0	0	295
	Others	0	0	0	0	0
PG	Male	30	0	0	0	30
	Female	49	1	0	0	50
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Category</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	59	40	233	42
	Female	29	21	13	14
	Others	0	0	0	0
ST	Male	63	32	35	27
	Female	16	9	5	2
	Others	0	0	0	0
OBC	Male	332	271	190	238
	Female	177	122	77	101
	Others	0	0	0	0
General	Male	132	164	81	116
	Female	111	88	80	92
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
<b>Total</b>		<b>919</b>	<b>747</b>	<b>714</b>	<b>632</b>

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

<b>Department Name</b>	<b>Upload Report</b>
Artificial Intelligence Machine Learning	<a href="#">View Document</a>
Civil Engineering	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
Electronics And Communication Engineering	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Masters In Business Administration	<a href="#">View Document</a>



**Institutional preparedness for NEP**

1. Multidisciplinary/interdisciplinary:	<p>The Institute Mission underscores the importance of Research and Development (R&amp;D) activities at both the Undergraduate and Postgraduate levels. These activities pave the way for learning interdisciplinary and multidisciplinary courses from other engineering disciplines, classified as electives such as open and professional. These courses collectively contribute to nearly 20% of the credit courses. By embracing this approach, students are exposed to a wide range of subjects beyond their core discipline, enriching their learning experience and broadening their skillset. This interdisciplinary exposure not only enhances their academic knowledge but also equips them with a versatile skill set that is invaluable in today's dynamic professional landscape. As a result, students are empowered to pursue their career goals with confidence, armed with a comprehensive understanding of various engineering disciplines and the ability to apply this knowledge effectively in real-world scenarios.</p>
2. Academic bank of credits (ABC):	<p>Although the institution operates under Autonomous Mode, it's important to note that the degree is offered by the affiliating university (JNTUH). Therefore, the implementation of approaches such as maintaining an Academic Bank of credits, as per the National Education Policy (NEP), should be carried out in accordance with thorough guidelines provided by the affiliating University. This ensures alignment with the policies and regulations set forth by the university while incorporating the principles and objectives outlined in the NEP. By adhering to these guidelines, the institution can effectively implement innovative practices while upholding the standards and requirements of the affiliating university.</p>
3. Skill development:	<p>The vision and mission of our institute are centered around imparting skill knowledge to our student community. As part of our distinctiveness, we are committed to fostering a pragmatic engineering approach in the design and implementation of curriculum enrichment activities. The outcomes of these activities aim to strengthen our students, providing them with better opportunities for career growth and success. Through this focused approach,</p>

	<p>we aspire to equip our students with the practical skills and knowledge necessary to excel in their chosen fields and make meaningful contributions to society. Our institute stands as a beacon of excellence, dedicated to empowering our students and shaping them into competent and successful professionals.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The rich heritage and status of the Republic of India are upheld through the inclusion of mandatory courses such as the Constitution of India in our curriculum. Additionally, students are encouraged to broaden their knowledge and skills by undertaking online courses spanning 12 weeks as part of their mandatory coursework. Furthermore, as a part of our institutional practice, students are encouraged to celebrate their own tradition and culture during events such as Traditional Day, which is integrated into our Annual Day programmes. This serves as a platform for students to showcase and embrace the diversity and richness of our cultural heritage. Through these initiatives, we aim to instill in our students a deep appreciation for their cultural roots, while also fostering a spirit of inquiry and learning that transcends boundaries.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>In our institute, four undergraduate programs, namely Electrical and Electronics Engineering, and Computer Science and Engineering, have been accredited under Tier II of Outcome Based Education for an initial period of three years from 2018 to 2020. Subsequently, an extension was granted for all four programs for an additional four years from 2021 to 2024. Additionally, Information Technology &amp; Electronics and Communication Engineering Programs received accreditation in the year 2024. This accreditation signifies our commitment to maintaining high standards of education and ensuring that our programs are aligned with industry requirements and best practices. We are dedicated to continually improving the quality of education and providing our students with a learning experience that prepares them for success in their chosen fields.</p>
<p>6. Distance education/online education:</p>	<p>During the academic year 2022-2023, our institute, in collaboration with the affiliating university, has been granted permission to introduce a dual degree course in the Management arena. This course, titled Bachelor of Business Administration with Data</p>

	<p>Analytics, is designed to address the evolving needs of the IT sector, with a particular focus on the objectives of Industrial 4.0. To facilitate accessibility and flexibility, students are provided with the option to register for the program under a blend mode of online and offline education. This innovative approach aims to enhance student engagement and accommodate diverse learning preferences, ultimately preparing them to excel in the dynamic landscape of modern industries. Through initiatives such as this, we are committed to offering cutting-edge educational opportunities that empower our students to thrive in the rapidly evolving global marketplace</p>
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### 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) was established at Teegala Krishna Reddy Engineering College in 2019 with the primary objective of promoting electoral literacy and awareness among citizens. Our aim is to cultivate a culture of informed and active participation in the electoral process, particularly among young voters. The ELC endeavors to educate students about the importance of voting, the electoral process, and the significance of free and fair elections in a democratic country. To achieve this goal, we organize a variety of activities including debates, discussions, workshops, and seminars. These events are designed to provide students with a comprehensive understanding of the electoral system, their voting rights, and their responsibilities as citizens. Through our initiatives, we seek to empower students to make informed decisions and actively engage in the democratic process, thereby contributing to the growth and strength of our nation's democracy.</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>The Electoral Literacy Club (ELC) at our institution is supported by a dedicated committee appointed by the Principal, Teegala Krishna Reddy Engineering College (TKREC). The committee members and their respective roles are as follows: Dr. M. Suresh Babu Designation: Professor, CSE Department Functional Role: ELC Coordinator Mr. K. Kumaraswamy Designation: Assistant Professor, ECE Department</p>

	<p>Functional Role: ELC Additional Coordinator                  Praharsha Reddy Designation: B. Tech. ECE Third Year Student Functional Role: Student Coordinator                  M. Vishwaja Designation: B. Tech. CSE Third Year Student Functional Role: Student Coordinator                  Sharath Yadav Designation: B. Tech. EEE Third Year Student Functional Role: Student Coordinator                  Puppala Harish Designation: B. Tech. CE Third Year Student Functional Role: Student Coordinator                  J. Rahul Designation: B. Tech. IT Third Year Student Functional Role: Student Coordinator                  These committee members work collaboratively to organize and implement various activities and initiatives aimed at promoting electoral literacy and awareness among students and the wider community. Their efforts are instrumental in fostering a culture of informed and active participation in the electoral process.</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 Electoral Literacy Club (ELC) at TKREC undertakes various activities to promote electoral literacy and awareness among students and the community. Some of the key activities conducted by the ELC are as follows: Voter Awareness Campaigns: Our students actively participate in voter awareness campaigns aimed at educating the public, disabled persons, and senior citizens in nearby villages. These campaigns seek to raise awareness about the importance of voting, voter rights, and the electoral process. Voter Registration Camp: The ELC organizes voter registration camps on campus to facilitate voter registration for eligible students. This initiative ensures that students are empowered to exercise their right to vote and actively participate in the democratic process. Workshops: The ELC conducts workshops to create awareness and interest among faculty and students about electoral literacy. These workshops cover topics such as voter registration, the electoral process, and related matters, providing participants with valuable insights and knowledge. Hands-on Experience: The ELC strives to educate targeted populations about voter registration and the electoral process through hands-on experiences. This may include interactive sessions, simulations, and practical activities designed to enhance understanding and engagement. Through these activities, the ELC at TKREC aims to foster a culture of informed and active participation</p>

	in the electoral process, empowering students and the community to make meaningful contributions to democracy.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	The Electoral Literacy Club (ELC) at TKREC undertakes socially relevant initiatives focused on electoral issues, including awareness drives and content creation. These initiatives highlight the club's commitment to advancing democratic values and encouraging participation in electoral processes. The ELC aims to help the target audience understand the value of their vote, empowering them to exercise their suffrage right confidently, comfortably, and ethically. Additionally, the club strives to develop a culture of electoral participation, emphasizing the principles of 'Every vote counts' and 'No Voter to be Left Behind.' Through these efforts, the ELC promotes informed and ethical voting practices, ultimately contributing to the strengthening of democracy in our society.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The Electoral Literacy Club (ELC) at TKREC is dedicated to sensitizing students above 18 years about their democratic rights, particularly the importance of casting votes in elections. Through initiatives such as mock polling activities, poster presentations, debates, mock parliaments, elocution, and essay writing competitions, the ELC aims to provide students with a comprehensive understanding of electoral procedures and foster a culture of active participation in the democratic process. These activities offer students hands-on experience, encourage critical thinking and dialogue, and empower them to make informed decisions as responsible citizens. By engaging in these programs, students are equipped with the knowledge and skills necessary to exercise their democratic rights confidently and ethically, ultimately contributing to the strengthening of our democratic values and principles.

## Extended Profile

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### 1 Students

#### 1.1

##### Number of students on rolls year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
3181	3105	2762	2608	2715
File Description		Document		
Provide Links for any other relevant document		<a href="#">View Document</a>		
Institutional data in the prescribed format (data		<a href="#">View Document</a>		

#### 1.2

##### Number of final year outgoing students year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
804	721	556	533	776
File Description		Document		
Provide Links for any other relevant document		<a href="#">View Document</a>		
Institutional data in the prescribed format (data		<a href="#">View Document</a>		

### 2 Teachers

#### 2.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
188	216	195	194	207
File Description		Document		
Provide Links for any other relevant document		<a href="#">View Document</a>		
Institutional data in the prescribed format		<a href="#">View Document</a>		
Certified list of full time teachers		<a href="#">View Document</a>		

## 2.2

**Total number of full time teachers worked/working in the institution (without repeat count) during last five years:**

**Response: 340**

File Description	Document
Provide Links for any other relevant document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 3 Institution

## 3.1

**Total expenditure excluding salary year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
801.40	628.88	500.91	621.18	287.02
Other Upload Files				
1	<a href="#">View Document</a>			

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curriculum Design and Development

##### 1.1.1

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

**Response:**

#### **Teegala Krishna Reddy Engineering College**

**Vision :** Imparting Knowledge and instilling skills to the aspiring students in the field of Engineering, Technology, Science and Management to face the emerging challenges of the society.

**Mission :**

**M1:**Encouraging scholarly activities that transfer knowledge in the areas of Engineering, Technology, Science and Management.

**M2:**Ensuring students of all levels, well trained to meet the needs of education and their future endeavors.

**M3:**Inculcating human values and ethics into the education system for the all-round development of the students.

Teegala Krishna Reddy Engineering College located in Hyderabad, Telangana, India, is an institution known for its commitment to providing quality technical education. TKREC offers a variety of undergraduate and postgraduate programs in engineering, technology & management. The institution is affiliated with JNTU-H , approved by the AICTE

#### Curriculum Relevance

The curricula at TKREC are meticulously developed and implemented to ensure they are relevant to the local, regional, national, and global developmental needs. This relevance is reflected in the Programme Outcomes and Course Outcomes of the various programs offered by the institution.

**Industry Collaboration:** TKREC maintains strong ties with local industries and businesses, ensuring that the curriculum is aligned with regional economic and industrial needs.

**Skill Development:** The college offers various skill development programs tailored to the local job market, equipping students with the necessary technical skills and knowledge that are in high demand within the region.



**Community Projects:** Students are encouraged to engage in projects that address local issues, such as water management, sustainable agriculture, and rural development, fostering a sense of social responsibility and problem-solving skills.

National Relevance

**National Education Policy:** TKREC's curricula are designed in accordance with the NEP 2020 guidelines, promoting a holistic and multidisciplinary approach.

**National Initiatives:** The institution integrates national initiatives like Digital India, Make in India, and Skill India into its curricula, preparing students to contribute effectively to these key areas.

**Research and Innovation:** TKREC promotes research and innovation by encouraging students and faculty to participate in national conferences, workshops, and projects.

**Sustainability and Global Challenges:** Courses at TKREC incorporate global challenges such as climate change, sustainable development, and renewable energy. Students are trained to think globally and act locally, equipping them to contribute solutions to worldwide issues.

PO's&CO's

- **POs:** These are broad statements that describe what students are expected to know and be able to do by the time of graduation. POs at TKREC typically include the ability to apply knowledge of mathematics, science, and engineering; design and conduct experiments; analyze and interpret data; design systems, components, or processes; function on multidisciplinary teams; understand professional and ethical responsibility; and engage in lifelong learning.
- **COs:** These are specific statements that describe what students should be able to do at the end of a course. COs are directly aligned with POs and include the acquisition of specific skills, knowledge, and competencies. For example, a CO for a course in Computer Science might involve the ability to design an algorithm to solve a specific problem or develop a software application using modern programming languages.

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

### 1.1.2

**The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

#### Response:

Teegala Krishna Reddy Engineering College, is renowned for its comprehensive approach to technical education. The college offers a variety of undergraduate and postgraduate programs in engineering, technology, and management, all meticulously designed to enhance employability, foster entrepreneurship, and develop essential skills. TKREC ensures that its course syllabi are regularly updated to meet contemporary industry requirements, thereby preparing students for the dynamic demands of the modern workforce.

#### Focus on Employability

- 1. Industry-Integrated Curriculum:** TKREC collaborates closely with industry partners to ensure that the curriculum reflects current industry standards and practices. This integration helps students gain relevant knowledge and skills that are directly applicable to their future careers.
- 2. Internships and Placements:** The college has a robust placement cell that facilitates internships and job placements for students. These internships provide practical experience and often lead to full-time job offers upon graduation.
- 3. Soft Skills Training:** In addition to technical skills, TKREC emphasizes the development of soft skills such as communication, teamwork, and leadership. Workshops and seminars on these topics are regularly conducted to enhance students' overall employability.

#### Promotion of Entrepreneurship

- 1. Entrepreneurship Development Cell (EDC):** TKREC has an active EDC that nurtures entrepreneurial talent among students. The cell organizes workshops, seminars, and mentoring sessions with successful entrepreneurs to inspire and guide aspiring business owners.
- 2. Startup Incubation:** The college provides incubation support to student startups, offering resources such as office space, funding assistance, and technical support. This environment fosters innovation and helps students turn their ideas into viable businesses.

**3. Business Plan Competitions:** TKREC regularly conducts business plan competitions to encourage students to develop and pitch their business ideas. These competitions provide valuable feedback and potential investment opportunities from industry experts.

#### Emphasis on Skill Development

**1. Technical Skill Enhancement:** TKREC offers a range of technical training programs and workshops to help students stay updated with the latest technologies and tools in their respective fields. This includes coding boot camps, machine learning workshops, and hands-on sessions with emerging technologies.

**2. Skill Development Courses:** The curriculum includes dedicated courses focused on developing practical skills in areas such as project management, data analysis, digital marketing, and more. These courses are designed to complement the theoretical knowledge gained in the classroom.

**3. Laboratories and Centers of Excellence:** The college is equipped with state-of-the-art laboratories and centers of excellence in various engineering disciplines. These facilities provide students with hands-on experience and opportunities to work on real-world projects.

#### Regular Curriculum Updates

**1. Advisory Boards:** TKREC has academic advisory boards comprising industry experts, academic professionals, and alumni. These boards provide insights and recommendations for curriculum updates to ensure that the courses remain relevant to industry needs.

**2. Feedback Mechanism:** The college maintains a robust feedback mechanism involving students, faculty, and industry partners. Regular feedback is collected and analyzed to identify areas for improvement in the curriculum.

**3. Incorporation of Emerging Trends:** The syllabi are regularly revised to incorporate emerging trends and technologies. Courses on artificial intelligence, the Internet of Things (IoT), blockchain, and other cutting-edge topics are included to keep students ahead of the curve.

#### 4. Accreditation and Quality Assurance

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**

**Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years**

**Response:** 39.83

**1.2.1.1 Number of new courses introduced during the last five years:**

Response: 752

**1.2.1.2 Consolidated number of courses offered by the institution across all Programmes (without repeat count) during the last five years :**

Response: 1888

<b>File Description</b>	<b>Document</b>
Subsequent Academic Council meeting extracts endorsing the decision of BOS	<a href="#">View Document</a>
Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**1.3 Curriculum Enrichment****1.3.1**

**Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum**

**Response:**

Teegla Krishna Reddy Engineering College (TKREC) is committed to providing a holistic education that not only focuses on technical excellence but also integrates essential cross-cutting issues relevant to professional ethics, gender equality, human values, environmental sustainability, and other value frameworks outlined in the Sustainable Development Goals (SDGs) and National Education Policy (NEP) of 2020. Through a comprehensive approach to curriculum development and implementation, TKREC ensures that students are equipped with the knowledge, skills, and mindset necessary to address the multifaceted challenges of the 21st century.

At the core of TKREC's curriculum is a strong emphasis on professional ethics. Students are exposed to ethical dilemmas commonly encountered in their respective fields and are encouraged to develop critical

thinking and decision-making skills guided by ethical principles. By fostering a culture of integrity and accountability, TKREC cultivates ethical leaders who prioritize moral values in their professional endeavors.

Gender equality is another key focus area integrated into TKREC's curriculum. Recognizing the importance of promoting diversity and inclusion in the engineering field, TKREC endeavors to bridge the gender gap by providing equal opportunities and support for all students, regardless of gender. Through initiatives such as gender sensitization workshops and inclusive policies, TKREC strives to create a conducive learning environment where everyone feels valued and respected.

Human values form the foundation of TKREC's educational philosophy. Beyond technical proficiency, TKREC places equal importance on nurturing qualities such as empathy, compassion, and social responsibility. Through value-based education initiatives, students are encouraged to reflect on their roles as responsible citizens and future leaders, with a deep understanding of the ethical implications of their actions on society as a whole.

Environmental sustainability is a pressing global issue that TKREC addresses through its curriculum. With a focus on promoting eco-consciousness and sustainable practices, TKREC integrates modules on environmental science, renewable energy, and green technology into its coursework. By instilling a sense of environmental stewardship in students, TKREC aims to cultivate a generation of engineers who prioritize the preservation of natural resources and the mitigation of climate change in their professional endeavors.

TKREC's curriculum is also aligned with the broader frameworks of the SDGs and NEP-2020. By incorporating the principles and goals outlined in these frameworks into its educational programs, TKREC ensures that its graduates are equipped to contribute meaningfully to the achievement of sustainable development objectives at local, national, and global levels. Through a combination of theoretical knowledge, hands-on experience, and values-based education, TKREC empowers students to become ethical, socially responsible, and environmentally conscious professionals who can drive positive change in their communities and beyond.

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

### 1.3.2

**Number of certificate/value added courses/Diploma Programmes offered by the institutions and**

**online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms (without repeat count) where the students of the institution have enrolled and successfully completed during the last five years.**

**Response:** 76

<b>File Description</b>	<b>Document</b>
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 (data template)	<a href="#">View Document</a>
Evidence of course completion, like course completion certificate etc	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### **1.3.3**

**Percentage of programmes that have components of field projects / research projects / internships during the last five years.**

**Response:** 100

**1.3.3.1 Total Number of programmes that have components of field projects / research projects / internships (without repeat count) during the last five years**

**Response:** 8

**1.3.3.2 Total Number of programmes offered (without repeat count) during the last five years**

**Response:** 8

File Description	Document
Sample Internship completion letter provided by host institutions	<a href="#">View Document</a>
Sample Evaluated project report/field work report submitted by the students	<a href="#">View Document</a>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Program and course contents having element of field projects / research projects / internships as approved by BOS	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 1.4 Feedback System

### 1.4.1

**Structured feedback for curriculum and its transaction is regularly obtained from stakeholders like Students, Teachers, Employers, Alumni, Academic peers etc., and Feedback processes of the institution may be classified as follows:**

**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>
Provide Links for any other relevant document to support the claim (if any)	<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>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 83.27

##### 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
926	747	641	767	716

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

2022-23	2021-22	2020-21	2019-20	2018-19
984	984	864	864	864

#### File Description

#### Document

Provide the relevant information in institutional website as part of public disclosure

[View Document](#)

Institutional data in the prescribed format (data template)

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document relating to sanction of intake as approved by competent authority

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

#### 2.1.2

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

**Response:** 80.26



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

2022-23	2021-22	2020-21	2019-20	2018-19
419	317	334	344	416

**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
492	492	432	432	432

File Description	Document
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<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 the letter issued by the 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>
Provide Links for any other relevant document to support the claim (if any	<a href="#">View Document</a>

**2.2 Catering to Student Diversity****2.2.1**

**The institution assesses the learning levels of the students and organises special Programmes to cater to differential learning needs of the student**

**Response:**

Teegala Krishna Reddy Engineering College (TKREC) is committed to providing a comprehensive and

inclusive educational environment that recognizes and addresses the diverse learning needs of its students. To achieve this, TKREC implements a robust system for assessing the learning levels of students and organizing special programs tailored to their individual needs.

#### Assessment of Learning Levels

At TKREC, the assessment of students' learning levels is a continuous and multi-faceted process, designed to identify the unique academic strengths and weaknesses of each student. The key components of this assessment strategy include:

#### Diagnostic Assessments:

At the beginning of each academic term, students undergo diagnostic assessments to evaluate their foundational knowledge and skills. These assessments help in identifying areas where students may need additional support or advanced challenges.

#### Formative Assessments:

Throughout the academic year, formative assessments such as quizzes, class tests, and assignments are conducted regularly. These assessments provide ongoing feedback to both students and instructors about the learning progress and help in modifying teaching strategies accordingly.

#### Summative Assessments:

End-of-term exams and major projects serve as summative assessments, offering a comprehensive evaluation of student learning outcomes. These assessments help in determining the overall achievement and readiness of students for subsequent levels of education or professional careers.

#### Personalized Feedback:

Instructors provide personalized feedback based on assessment results, guiding students on how to improve their performance and highlighting specific areas for further development.

#### Special Programs for Differential Learning Needs

Recognizing that students have varied learning paces and styles, TKREC organizes special programs to cater to these differential learning needs. These programs are designed to support students at all levels, from those requiring remedial assistance to those seeking advanced learning opportunities.

#### Remedial Coaching:

For students who need extra help in certain subjects, remedial coaching classes are arranged. These classes focus on reinforcing fundamental concepts and providing additional practice to ensure that all students can keep up with the curriculum.

#### Enrichment Programs:

Advanced learners are offered enrichment programs that include challenging projects, research opportunities, and advanced coursework. These programs are aimed at deepening their understanding and fostering a culture of academic excellence.

#### Peer Tutoring and Mentoring:

TKREC encourages peer tutoring and mentoring, where senior students or academically proficient peers assist others in their studies. This not only helps the tutees but also reinforces the mentors' knowledge and skills.

**Workshops and Seminars:**

Regular workshops and seminars are conducted on various topics, including soft skills, technical skills, and career development. These sessions provide students with broader learning experiences and prepare them for the professional world.

**Learning Resource Center:**

The college has a well-equipped learning resource center that provides access to a wide range of educational materials, including books, journals, and online resources. Students can utilize these resources for self-study and supplementary learning.

**Counseling and Support Services:**

Teegala Krishna Reddy Engineering College's commitment to assessing learning levels and addressing the differential learning needs of its students ensures a personalized and effective educational experience. By implementing a variety of assessment methods and special programs, TKREC supports all students in achieving their academic potential and preparing for successful futures.

<b>File Description</b>	<b>Document</b>
Upload Any additional information	<a href="#">View Document</a>
Provide link for additional information	<a href="#">View Document</a>

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

**Response:** 16.92

<b>File Description</b>	<b>Document</b>
List showing the number of students in each of the programs for the latest completed academic year across all semesters	<a href="#">View Document</a>
Certified list of full time teachers along with the departmental affiliation in the latest completed academic year.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.3 Teaching- Learning Process****2.3.1**

**Student centric methods, such as experiential learning, participative learning and problem solving**

**methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

**Response:**

Teegala Krishna Reddy Engineering College (TKREC) is dedicated to fostering a dynamic and engaging educational environment by employing student-centric methods and leveraging Information and Communication Technology (ICT) tools. These approaches aim to enhance the learning experience, making it more interactive, practical, and effective.

**Student-Centric Learning Methods**

TKREC prioritizes student-centered learning strategies that place students at the heart of the educational process. These methods include experiential learning, participative learning, and problem-solving methodologies.

**Experiential Learning:**

**Hands-On Projects:** Students engage in projects that require applying theoretical knowledge to real-world scenarios, bridging the gap between classroom learning and practical application.

**Laboratory Work:** State-of-the-art laboratories allow students to conduct experiments and practice technical skills, reinforcing their understanding of core concepts.

**Participative Learning:**

**Group Discussions and Debates:** Regular group discussions and debates encourage students to articulate their ideas, listen to diverse perspectives, and develop critical thinking skills.

**Team Projects:** Collaborative projects promote teamwork, communication, and project management skills, preparing students for future professional roles.

Interactive workshops and seminars with industry experts and academicians help students gain insights into contemporary issues and emerging trends.

**Problem-Solving Methodologies:**

**Case Studies:** Analyzing real-life case studies helps students develop problem-solving skills by applying their knowledge to identify, analyze, and propose solutions to complex issues.

**Simulation and Modeling:** Use of simulation software and modeling tools allows students to experiment with different scenarios and understand the impact of various parameters on outcomes.

Participation in hackathons and coding competitions encourages innovative thinking and practical application of technical skills to solve real-world problems.

#### ICT-Enabled Teaching and Learning

To further enhance the effectiveness of the teaching and learning process, TKREC integrates a variety of ICT-enabled tools and online resources.

Platforms such as Moodle and Google Classroom are used to organize course materials, track student progress, and facilitate communication between students and instructors.

#### Online Resources:

Access to digital libraries, e-books, research journals, and educational databases provides students with a wealth of information at their fingertips, supporting self-directed learning and research activities.

Integration of Massive Open Online Courses (MOOCs) from platforms like Coursera, edX, and NPTEL allows students to learn from global experts and earn certifications in various subjects.

#### Multimedia Tools:

Incorporation of multimedia presentations, videos, and animations in lectures makes learning more engaging and helps in better visualization of complex concepts.

#### Interactive Technologies:

Interactive whiteboards, clicker systems, and online polling tools facilitate active participation during lectures, making the classroom environment more interactive and responsive.

#### Assessment and Feedback Systems:

Online assessment platforms provide a flexible and efficient way to conduct quizzes, exams, and assignments. Instant feedback mechanisms help students identify their strengths and areas for improvement promptly.

Teegala Krishna Reddy Engineering College's commitment to employing student-centric methods and ICT-enabled tools ensures a holistic and enhanced learning experience. By combining experiential, participative, and problem-solving methodologies with advanced technological resources, TKREC equips students with the knowledge, skills, and competencies required to excel in their academic and professional pursuits. This integrated approach not only makes learning more effective but also prepares students to thrive in a rapidly evolving digital world.

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

### 2.3.2

#### **The institution adopts effective Mentor-Mentee Schemes to address academics and student-psychological issues**

##### **Response:**

Teegala Krishna Reddy Engineering College (TKREC) is dedicated to providing comprehensive support to its students through the implementation of effective mentor-mentee schemes. These programs are designed to address both academic and psychological issues, ensuring that students receive the guidance and support they need to succeed in their educational journey and personal development.

##### Objectives of the Mentor-Mentee Scheme

###### Academic Support:

- To help students improve their academic performance and achieve their educational goals.
- To provide personalized guidance and support in coursework, projects, and exam preparation.
- To foster a culture of continuous learning and intellectual curiosity.

###### Psychological and Emotional Support:

- To offer a supportive environment where students can discuss personal challenges and emotional issues.
- To help students develop coping strategies for stress, anxiety, and other psychological concerns.
- To promote overall mental well-being and resilience among students.

##### Structure of the Mentor-Mentee Scheme

The mentor-mentee scheme at TKREC is structured to ensure that each student receives individualized attention and support from a designated mentor.

##### Mentor Assignment:

Each student is assigned a mentor at the beginning of the academic year. Mentors are typically experienced faculty members who have been trained in mentorship skills.

Mentors are matched with mentees based on their academic background, interests, and specific needs.

##### Regular Meetings:

Scheduled one-on-one meetings between mentors and mentees are conducted regularly to discuss academic progress, address any difficulties, and provide guidance.

Additional meetings can be arranged as needed, particularly during critical periods.

##### Group Mentoring Sessions:

In addition to individual mentoring, group sessions are organized to facilitate peer learning and support. These sessions allow mentees to share experiences and learn from each other under the guidance of their mentor.

##### Workshops and Seminars:

Regular workshops and seminars on topics such as time management, study skills, stress management, and career planning are conducted to equip students with essential life skills.

Experts in psychology, career counseling, and academic coaching are invited.

## Benefits of the Mentor-Mentee Scheme

### Academic Enhancement:

Mentors provide personalized academic guidance, helping students to identify their strengths and areas for improvement.

Assistance with course selection, project work, and preparation for competitive exams is provided, enhancing students' academic performance and career prospects.

### Emotional and Psychological Well-Being:

Mentors offer a safe and confidential space for students to discuss their personal and emotional challenges.

### Personal Development:

The scheme fosters the development of critical life skills such as problem-solving, decision-making, and effective communication.

Students gain confidence and self-esteem through continuous support and positive reinforcement from their mentors.

### Building Strong Relationships:

The mentor-mentee relationship helps in building a strong support network within the college community.

These relationships often extend beyond the academic environment, providing lasting professional and personal connections.

Teegala Krishna Reddy Engineering College's mentor-mentee scheme is a cornerstone of its commitment to student success and well-being. By offering tailored academic guidance and addressing psychological issues, the scheme ensures that students receive the holistic support necessary for their growth and development. This integrated approach not only enhances academic outcomes but also promotes mental health and emotional resilience, preparing students to thrive in their future endeavors.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
List of Active mentors	<a href="#">View Document</a>
Provide Link for Additional Information	<a href="#">View Document</a>

### 2.3.3

#### *Preparation and adherence of Academic Calendar and Teaching plans by the institution*

**Describe the Preparation and adherence to Academic Calendar and Teaching plans by the institution.**

**Response:**

Teegala Krishna Reddy Engineering College (TKREC) prioritizes structured academic planning to ensure effective education delivery adhering regulations of Jawaharlal Nehru Technological University, Hyderabad and All India Council for Technical Education (AICTE). The institution's emphasis on the preparation and adherence to a well-defined Academic Calendar and comprehensive Teaching Plans underscores its commitment to organized learning and resource optimization.

### **Academic Calendar:**

The Academic Calendar at TKREC is meticulously prepared, in consultation with the Dean (Academics & Autonomous) and the Principal. It is based on input from department and section heads to ensure smooth functioning of the institution.

The calendar adheres to specific constraints such as 16-18 weeks of instruction duration for U.G. programs and 17 weeks for P.G. programs, including provisions for internal examinations, preparation holidays, and practical examination days.

Key elements of the Academic Calendar include commencement and conclusion dates of class work, durations of instruction spells, schedules of internal and external examinations, preparation holidays, parent-teacher meet dates, and vacation periods.

The Academic Calendar is prominently displayed in notice boards and on the college website, ensuring accessibility to students before the commencement of class work. It undergoes approval by the governing body and the Academic Council.

### **Teaching Plan:**

Teaching Plans are developed by department heads in consultation with faculty members, ensuring the allocation of subjects according to faculty expertise.

Faculty members prepare unit-wise lesson plans with specified lecture hours, aligned with the needs of Outcome-Based Education. These plans are submitted to the Head of the Department (HOD) for verification before the semester begins.

Course files, inclusive of academic plans, are prepared by faculty members and include individual timetables, class timetables, syllabi, course objectives, outcomes, mappings, unit-wise notes, tutorials, assignments, and assessment materials.

During the semester, the HOD monitors the implementation of teaching plans by faculty members, addressing any deviations and ensuring smooth course coverage.

Upcoming events for the academic year are also planned in advance to provide a holistic view of the academic scenario and aid in scheduling teaching activities accordingly.

Overall, TKREC demonstrates a meticulous approach to academic planning, ensuring adherence to schedules and promoting effective teaching practices for the benefit of its students.



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

## 2.4 Teacher Profile and Quality

### 2.4.1

**Average percentage of full time teachers appointed against the number of sanctioned posts year wise 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
188	216	195	194	207

<b>File Description</b>	<b>Document</b>
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts).	<a href="#">View Document</a>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 2.4.3 and 2.4.4)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 2.4.2

**Percentage of full time teachers with Ph.D./D.Sc. / D.Litt./ L.L.D during the last five years**

**Response:** 13.82

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

Response: 47

<b>File Description</b>	<b>Document</b>
List of faculty having Ph.D./D.Sc. / D.Litt./ L.L.D along with particulars of the degree awarding university, subject and the year of award per academic year.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 3.2.3 and 3.4.2)	<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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.4.3****Average teaching experience of full time teachers (Data to be provided only for the latest completed academic year, in number of years)**

Response: 12.34

**2.4.3.1 Total teaching experience of full-time teachers as of latest completed academic year**

Response: 2319

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template merged with 2.4.1 and 2.4.4)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.4.4****Percentage of full time teachers working in the institution throughout during the last five years**

Response: 54.59

**2.4.4.1 Number of full time teachers worked in the institution throughout during the last five years:**

Response: 113

File Description	Document
Institutional data in the prescribed format (data template merged with 2.4.1 and 2.4.3)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1

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

**Response:** 19.6

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

2022-23	2021-22	2020-21	2019-20	2018-19
18	19	20	21	20

File Description	Document
Result Sheet with date of publication	<a href="#">View Document</a>
Policy document on Declaration of results (if any)	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Exam timetable released by the Controller of Examination	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 2.5.2

**Percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years**

**Response:** 0.78

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

2022-23	2021-22	2020-21	2019-20	2018-19
48	26	20	12	5

### 2.5.2.2 Number of students appeared in the examination conducted by the institution year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
3042	3105	2762	2608	2715

File Description	Document
List of students who have applied for re-valuation/re-totaling program wise certified by the Controller of Examinations year-wise for the assessment period.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 2.5.3

**IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA)/Formative Assessment have brought in considerable improvement in Examination Management System (EMS) of the Institution**

**Describe the examination reforms with reference to the following within a minimum of 500 words**

- **Examination procedures**
- **Processes integrating IT**
- **Continuous internal assessment system**

#### **Response:**

Teegla Krishna Reddy Engineering College (TKREC) has undergone a significant transformation in its examination management system (EMS) through the integration of Information Technology (IT) and the implementation of reforms in examination procedures and processes, particularly emphasizing Continuous Internal Assessment (CIA) or Formative Assessment. This comprehensive overhaul has led to remarkable improvements in various facets of the institution's EMS.

One of the pivotal aspects of this transformation is the integration of IT into examination procedures and processes. TKREC has leveraged technology to streamline various stages of the examination lifecycle,

from registration to result declaration. The adoption of IT solutions has automated several administrative tasks, reducing manual intervention and minimizing errors. Online registration systems have simplified the enrollment process for students, while digital question paper generation and distribution have enhanced efficiency and security during examinations. Moreover, IT integration has facilitated seamless communication between stakeholders, enabling timely dissemination of information and improving overall coordination.

Central to the EMS reforms at TKREC is the implementation of Continuous Internal Assessment (CIA) or Formative Assessment practices. CIA involves the regular evaluation of students' academic progress throughout the semester, complementing the traditional end-of-semester examinations. This approach promotes continuous learning and provides students with frequent feedback, fostering a deeper understanding of the subject matter. TKREC has embraced CIA as a means to gauge students' comprehension and skill acquisition continuously, thereby facilitating personalized learning experiences and nurturing holistic development.

The integration of CIA into the examination management system has yielded several benefits for TKREC. Firstly, it has reduced the academic burden on students by distributing assessments across the semester, mitigating the stress associated with high-stakes examinations. This approach also encourages active student engagement and participation in classroom activities, as assessments are intertwined with regular coursework. Additionally, CIA enables instructors to identify students' strengths and weaknesses promptly, allowing for timely interventions and tailored support mechanisms. This personalized approach to assessment contributes to improved academic outcomes and student retention rates.

Furthermore, TKREC has implemented robust monitoring and evaluation mechanisms to ensure the effectiveness of CIA practices. Regular audits and feedback mechanisms enable continuous refinement of assessment strategies, aligning them with evolving pedagogical trends and industry requirements. Faculty members undergo training programs to familiarize themselves with CIA methodologies and best practices, ensuring consistency and fairness in assessment practices across departments.

The successful integration of IT and CIA into TKREC's examination management system underscores the institution's commitment to excellence in education and student-centric learning. By embracing technology-driven reforms and pedagogical innovations, TKREC aims to cultivate a conducive learning environment that empowers students to excel academically and thrive in a rapidly evolving professional landscape. Moving forward, the institution remains dedicated to enhancing its EMS further, leveraging emerging technologies and pedagogical approaches to meet the evolving needs of its stakeholders and uphold its reputation for academic excellence.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide links as Additional Information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1

**The institution has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution**

**Response:**

Teegla Krishna Reddy Engineering College (TKREC) has implemented a comprehensive system for assessing and evaluating learning outcomes, both at the program and course levels, as well as graduate attributes. These outcomes are intricately integrated into the assessment process and are extensively publicized through various channels, including the institution's website and official documents. TKREC demonstrates a strong commitment to ensuring that students not only acquire technical knowledge but also develop essential skills and attributes necessary for success in their academic and professional endeavors.

At TKREC, learning outcomes are meticulously defined for each academic program and individual courses. These outcomes delineate the knowledge, skills, and competencies that students are expected to acquire by the completion of their studies. By clearly articulating these expectations, TKREC provides students with a roadmap for their educational journey, guiding them towards achieving academic excellence and professional competence.

Furthermore, TKREC emphasizes the importance of graduate attributes, which encompass a broader set of skills and qualities that students should possess upon graduation. These attributes typically include qualities such as critical thinking, communication skills, ethical awareness, and teamwork capabilities. Recognizing the significance of these attributes in shaping well-rounded professionals, TKREC ensures that they are integrated into the curriculum and assessment processes across all disciplines.

Integral to TKREC's assessment framework is the rigorous evaluation of learning outcomes and graduate attributes. The institution employs various assessment methods, including examinations, projects, presentations, and practical demonstrations, to gauge students' attainment of these outcomes. Assessment criteria are aligned with the stated learning objectives, ensuring that evaluations are fair, transparent, and consistent.

Moreover, TKREC has established mechanisms for systematically monitoring and reviewing the attainment of learning outcomes and graduate attributes. Faculty members regularly assess student performance and provide constructive feedback to facilitate continuous improvement. Additionally, periodic reviews of curriculum and assessment strategies are conducted to identify areas for enhancement and ensure alignment with industry trends and accreditation standards.

TKREC is proactive in disseminating information regarding learning outcomes and graduate attributes to stakeholders. The institution's website serves as a central repository of information, providing comprehensive details about program and course objectives, assessment criteria, and desired outcomes. Additionally, official documents such as course handbooks and academic calendars feature prominently displayed learning outcomes, ensuring that students are well-informed about the expectations associated with their studies.

Through its robust assessment framework and transparent communication channels, TKREC fosters a culture of accountability and excellence in education. By integrating learning outcomes and graduate attributes into the assessment process and actively promoting them through various channels, the

institution empowers students to take ownership of their learning journey and equips them with the skills and competencies needed to thrive in today's dynamic global landscape. Moving forward, TKREC remains committed to refining its assessment practices and aligning them with emerging educational trends and industry demands, thereby ensuring that its graduates are well-prepared to meet the challenges of the future.

File Description	Document
Upload POs and COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Provide links as Additional Information	<a href="#">View Document</a>

## 2.6.2

**Pass percentage of students (excluding backlog students) (Data for the latest completed academic year)**

**Response:** 90.92

**2.6.2.1 Total number of final year students who passed the examination conducted by Institution during the latest completed academic year:**

**Response:** 731

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Certified report from the COE indicating the pass percentage of students of the final year (final semester) eligible for the degree program-wise / 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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1

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

**Response:**



## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

#### 3.1.1

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

**Response:**

Teegla Krishna Reddy Engineering College (TKREC) stands at the forefront of promoting research and providing state-of-the-art facilities to its students and faculty. With a steadfast commitment to fostering innovation and academic excellence, TKREC continually updates its research infrastructure and implements well-defined policies to promote a culture of research excellence.

At the heart of TKREC's commitment to research promotion lies its robust and constantly evolving research facilities. The institution spares no effort in ensuring that its labs, equipment, and resources remain at the cutting edge of technology and knowledge. From advanced laboratories equipped with the latest instrumentation to dedicated research spaces for various disciplines, TKREC provides a conducive environment for scholarly exploration and experimentation.

One of the key pillars supporting TKREC's research endeavors is its proactive approach to facility maintenance and enhancement. Regular upgrades and modernizations are carried out to keep pace with the rapidly evolving landscape of engineering and technology. This commitment to staying current not only benefits ongoing research projects but also attracts top-tier faculty and students seeking to engage in innovative research pursuits.

Moreover, TKREC understands the importance of transparent and accessible policies in nurturing a thriving research community. To this end, the institution has developed a comprehensive set of guidelines and protocols governing the promotion of research activities. These policies are not only meticulously crafted but are also readily available to all stakeholders through the institutional website. By ensuring transparency and clarity, TKREC empowers researchers to navigate the academic landscape with confidence and purpose.

Central to TKREC's research promotion policies is the emphasis on inclusivity and collaboration. Recognizing that breakthroughs often arise from interdisciplinary collaboration, the institution actively encourages researchers from diverse backgrounds to collaborate and exchange ideas. Through initiatives such as interdisciplinary research forums and collaborative grant programs, TKREC fosters an environment where cross-pollination of ideas flourishes, leading to innovative solutions to complex challenges.

Furthermore, TKREC is committed to supporting the professional development of its faculty and students engaged in research. The institution offers a range of resources and opportunities, including research grants, funding for conference presentations, and mentorship programs, to empower researchers at every stage of their academic journey. By investing in the growth and success of its research community, TKREC cultivates a culture of lifelong learning and academic excellence.

In addition to providing tangible support, TKREC actively promotes a research-centric ethos across its academic and administrative domains. Faculty members are encouraged to integrate research into their teaching practices, fostering a dynamic learning environment where students are exposed to cutting-edge ideas and methodologies. Similarly, administrative policies are designed to streamline research-related processes, ensuring that researchers can focus their energy on advancing knowledge and making meaningful contributions to their respective fields.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide links as Additional Information	<a href="#">View Document</a>

### 3.1.2

#### The institution provides seed money to its teachers for research

**Response:** 22.74

#### 3.1.2.1 Amount of seed money provided by institution to its teachers for research year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
4.54000	6.45000	5.48072	4.11800	2.15

File Description	Document
Sanction letters of seed money to the teachers is mandatory	<a href="#">View Document</a>
List of faculty who have been provided with seed money for research along with the title of the project, duration and amount year-wise	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Audited Income-Expenditure statement highlighting the expenditure towards seed money endorsed by the Finance Officer	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.1.3**

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

**Response:** 38.53

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

**Response:** 131

<b>File Description</b>	<b>Document</b>
List of teachers who have received the awards along with nature of award, the awarding agency etc.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
E-copies of the award letters of the teachers	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.2 Resource Mobilization for Research****3.2.1**

**Total Grants research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowment research chairs during the last five years (INR in Lakhs)**

**Response:** 62.36165

<b>File Description</b>	<b>Document</b>
List of Extramural funding received for research, Endowment Research Chairs received during the last five years along with the nature of award, the awarding agency and the amount	<a href="#">View Document</a>
Institutional data in the prescribed format (data template is merged with 3.2.2)	<a href="#">View Document</a>
Copies of the letters of award for research, endowments, Chairs sponsored by non-government sources	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.2.2**

**Number of research projects per teacher funded by government, non-government , industry, corporate houses, international bodies during the last five years**

**Response:** 1.15

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

Response: 391

<b>File Description</b>	<b>Document</b>
List of project titles with details of Principal Investigator, amount sanctioned and sanctioning agency etc	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 3.2.1)	<a href="#">View Document</a>
Copies of the grant award letters for research projects sponsored by government agencies	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.2.3**

**Percentage of teachers recognised as research guides as in the latest completed academic year**

**Response:** 3.19

**3.2.3.1 Number of teachers recognised as research guides as in the latest completed academic year:**

Response: 6

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 2.4.2 and 3.4.2)	<a href="#">View Document</a>

**3.3 Innovation Ecosystem****3.3.1**

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

**Response:**

The institute has established an innovation ecosystem to foster a culture of innovation among young minds in the campus and has taken following initiatives:

**Awareness about IPR (Intellectual Property Rights):**

TKREC recognizes the pivotal role of intellectual property in protecting and promoting innovation. To this end, the institution has actively instilled awareness about IPR among its students, faculty, and researchers. This educational effort has empowered the TKREC community to safeguard their ideas, inventions, and creative works. It has also led to a culture of respect for intellectual property rights, fostering a conducive environment for innovation.

**Establishment of IPR Cell:**

TKREC commitment to IPR is further underscored by the establishment of a dedicated Intellectual Property Rights (IPR) cell. This cell serves as a centralized hub for managing and protecting intellectual property assets generated within the institution. It provides guidance on patenting, copyright, trademarks, and other aspects of IPR. By offering support and resources for inventors and creators, the IPR cell has catalyzed a surge in innovation and research activities.

**Promoting Innovation & Incubation:**

The college is actively encouraging students to engage in innovative projects that address societal needs. By promoting innovation and providing an environment for incubation activities, the institute is fostering a culture of creativity and problem-solving among its students. Additionally, being a member of JHUB likely provides students with access to a larger innovation network and resources.

**Research and Development Cell:**

The presence of an R&D Cell highlights the institute's commitment to research activities. Encouraging faculty and students to actively participate in research, publish their work in reputable journals and conferences, and engage in research projects suggests that the institute values scholarly contributions and aims to contribute to the broader academic community.

**Skill Development Cell:**

The association with organizations like TASK, FACE academy indicates that the institute is focusing on enhancing both technical and life skills among its students. By partnering with these organizations, the institute is likely able to offer training and resources that align with industry requirements, thus better preparing students for their careers.

**Library Resources:**

The availability of resources like e-Journals, DELNET membership, and Indian journals/magazines is crucial for fostering research and development activities on campus. Access to a wide range of academic resources can significantly enhance the quality and depth of research undertaken by faculty and students.

**Entrepreneurship Development Cell (EDC):**

The Entrepreneurship Development Cell plays a vital role in nurturing an entrepreneurial spirit among students. By conducting interactive sessions, awareness programs, and potentially even facilitating startup initiatives, the institute is equipping students with the skills and mindset needed to pursue their own ventures.

**Collaborations and MOUs:**

Collaborations with industries and institutes provide students with valuable opportunities for real-world exposure. Technical training, internships, and research projects enabled by these collaborations help bridge the gap between academic learning and practical application.

Overall, these initiatives collectively contribute to creating a holistic ecosystem that supports students in their journey towards innovation, skill development, research, entrepreneurship, and industry engagement. The institute's efforts are aligned with preparing students for both academic excellence and successful careers in various fields

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link for Any other additional information	<a href="#">View Document</a>

**3.4 Research Publications and Awards**

**3.4.1**

**The Institution ensures implementation of its stated Code of Ethics for research.**

**The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following:**

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of institutional Ethics committee (Animal, Chemical, Bio-ethics etc.)**
- 3. Plagiarism check through software**
- 4. Research Advisory Committee**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copy of the syllabus of the research methodology course work to indicate if research ethics is included	<a href="#">View Document</a>
Constitution of the ethics committee and its proceedings as approved by the appropriate body	<a href="#">View Document</a>
Constitution of research advisory committee and its proceedings as approved by the appropriate body.	<a href="#">View Document</a>
Bills of purchase of licensed plagiarism check software in the name of the HEI	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.4.2**

**Number of candidates registered for Ph.D per teacher during the last five years**

**Response:** 5.67

**3.4.2.1 Number of candidates registered for Ph.D during the last 5 years:**

Response: 34

<b>File Description</b>	<b>Document</b>
Ph.D. registration letters/Joining reports of candidates.	<a href="#">View Document</a>
Letter from the university indicating name of the Ph.D. student with title of the doctoral study and the name of the guide.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 2.4.2 and 3.2.3)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.4.3****Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years****Response:** 2.11**3.4.3.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

Response: 717

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

**3.4.4****Number of books and chapters in edited volumes published per teacher during the last five years****Response:** 0.25



**3.4.4.1 Total Number of books and chapters in edited volumes published during the last five years**

Response: 85

<b>File Description</b>	<b>Document</b>
List of chapter/book along with the links redirecting to the source website	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<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>

**3.4.5****Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science**

Response: 0

<b>File Description</b>	<b>Document</b>
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

Response: 0

<b>File Description</b>	<b>Document</b>
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.5 Consultancy**

**3.5.1****Revenue generated from consultancy and corporate training during the last five years****Response:** 11.4**3.5.1.1 Total Amount generated from consultancy and corporate training year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
0	5.9	0	5.5	0

<b>File Description</b>	<b>Document</b>
Letter from the corporate to whom training was imparted along with the fee paid.	<a href="#">View Document</a>
Letter from the beneficiary of the consultancy along with details of the consultancy fee	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
CA certified copy of statement of accounts as attested by head of the institution	<a href="#">View Document</a>
Audited statements of accounts indicating the revenue generated through corporate training/consultancy.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**3.6 Extension Activities****3.6.1**

**Outcomes of extension activities in the neighbourhood community in terms of impact and sensitizing the students to social issues and holistic development, and awards received if any during the last five years (Showcase at least four case studies to the peer team)**

**Describe the impact of extension activities in sensitising students to social issues and holistic development with four case studies within a maximum of 500 words**

**Response:**

Teegla Krishna Reddy Engineering College (TKREC) champions the ethos of community engagement

and social responsibility through its robust extension activities. These endeavors not only impact the surrounding neighborhoods but also sensitizes students to pressing social issues while fostering holistic development. Over the past five years, TKREC's extension initiatives have garnered recognition through various awards, underscoring their significance and impact.

**Case Study 1: Clean India Program** TKREC's Clean India Program epitomizes the institution's commitment to environmental stewardship and community welfare. Through this initiative, students actively engage in cleanliness drives, waste management campaigns, and awareness programs aimed at promoting sustainable practices. The impact is tangible, with cleaner surroundings leading to improved public health and civic pride. Additionally, students develop a deep sense of responsibility towards their environment, fostering a culture of sustainability that extends beyond the campus borders.

**Case Study 2: Orphanage Fundraising** TKREC's orphanage fundraising efforts exemplify its dedication to social welfare and compassion. Through various fundraising events and campaigns, students mobilize resources to support local orphanages, providing essential amenities, educational opportunities, and emotional support to underprivileged children. Beyond monetary contributions, students actively volunteer their time and skills, organizing recreational activities and mentorship programs to enrich the lives of orphaned youth. These initiatives not only make a tangible difference in the lives of the beneficiaries but also instill empathy and altruism in the student body, nurturing well-rounded individuals with a strong sense of social responsibility.

**Case Study 3: Blood Donation Camp** The blood donation camps organized by TKREC serve as a lifeline for the community, addressing critical healthcare needs while fostering a culture of altruism and solidarity among students. By partnering with local healthcare institutions and blood banks, TKREC facilitates regular blood donation drives, mobilizing students, faculty, and staff to donate blood and save lives. The impact is profound, with each donation potentially saving multiple lives and alleviating the burden on healthcare infrastructure. Moreover, these camps serve as educational platforms, raising awareness about the importance of blood donation and dispelling myths and misconceptions surrounding the process.

**Case Study 4: Azadi Ka Amrit Mahotsav** In commemoration of India's 75th year of independence, TKREC organized the Azadi Ka Amrit Mahotsav, a multifaceted celebration honoring the nation's rich heritage and diverse cultural tapestry. Through exhibitions, seminars, cultural performances, and community outreach initiatives, TKREC paid tribute to India's freedom struggle while reflecting on the country's progress and aspirations. Students actively participated in various events, showcasing their talents and creativity while gaining a deeper appreciation for India's history and values. The Mahotsav not only served as a platform for patriotic fervor but also promoted unity, diversity, and inclusive growth, inspiring students to contribute positively to the nation's development journey.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 3.6.2

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

**Response: 82**

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

2022-23	2021-22	2020-21	2019-20	2018-19
17	21	18	17	9

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 (data template)	<a href="#">View Document</a>
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 3.7 Collaboration

### 3.7.1

**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: 93**

<b>File Description</b>	<b>Document</b>
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc	<a href="#">View Document</a>
List of year wise activities and exchange should be provided	<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 (data template)	<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**

- 1. teaching – learning, viz., classrooms, laboratories, computing equipment etc**
- 2. ICT – enabled facilities such as smart class, LMS etc.**
- 3. Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc.**

#### **Response:**

Teegla Krishna Reddy Engineering College (TKREC) has positioned itself as a premier institution committed to providing comprehensive infrastructure and facilities conducive to effective teaching, learning, and holistic development.

#### **Adequate Infrastructure for Teaching-Learning:**

TKREC's infrastructure is designed to facilitate optimal learning experiences. Spacious classrooms equipped with modern amenities create an interactive learning environment, fostering student engagement and academic growth. State-of-the-art laboratories are well-equipped to provide practical hands-on training, bridging the gap between theoretical knowledge and real-world applications. Additionally, the college ensures access to cutting-edge computing equipment, empowering students with the tools they need for academic success.

#### **ICT-Enabled Facilities:**

Embracing technological advancements, TKREC offers ICT-enabled facilities such as smart classrooms and a Learning Management System (LMS). These digital resources enhance the teaching-learning process, promoting interactive and engaging sessions while facilitating seamless access to educational materials and resources. Through the integration of technology, TKREC empowers students to leverage digital tools for enhanced learning outcomes and skill development.

#### **Facilities for Cultural and Sports Activities:**

Recognizing the importance of holistic development, TKREC provides a range of facilities for cultural and sports activities. A dedicated yoga center promotes physical and mental well-being, offering students a space for mindfulness and relaxation. Indoor and outdoor gaming facilities encourage participation in sports and recreational activities, fostering teamwork, leadership, and sportsmanship among students. Additionally, a fully equipped gymnasium promotes physical fitness and overall health among the student community.

#### **Gathering Spaces:**

TKREC's auditorium serves as a versatile venue for various academic and extracurricular events, including seminars, workshops, cultural performances, and guest lectures. This multipurpose space provides a platform for intellectual exchange, creative expression, and community engagement, enriching the overall educational experience for students and faculty alike.

### **Comprehensive Approach to Development:**

Thus, Teegla Krishna Reddy Engineering College adopts a comprehensive approach to education, ensuring that students have access to the necessary infrastructure and facilities for their holistic development. From well-equipped classrooms and laboratories to ICT-enabled resources and cultural and sports amenities, TKREC prioritizes creating an environment that nurtures academic excellence, personal growth, and overall well-being. By providing a conducive ecosystem for learning and development, TKREC empowers students to thrive academically, professionally, and personally, preparing them to excel in the dynamic and competitive world of engineering.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### **4.1.2**

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

**Response:** 41.13

**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
435.40775	136.25017	181.47189	335.43999	79.17328

File Description	Document
Institutional data in the prescribed format (data template is merged with 4.2.2 and 4.4.1)	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<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:**

Teegala Krishna Reddy Engineering College (TKREC) has set new standards for academic excellence with its revolutionary approach to library facilities. Equipped with cutting-edge digital resources, the library ensures unparalleled access to a vast array of learning materials for both students and faculty.

#### **A Hub of Intellectual Activity**

Located on the 4th floor, TKREC's library serves as a bustling hub of intellectual activity, accommodating up to 200 readers at a time. Its extensive collection of over 64,404 volumes and 7,409 titles covers a wide range of subjects, making it a treasure trove of knowledge for engineering students.

#### **Stay Updated with the Latest**

TKREC's library subscribes to a wide range of national and international journals, magazines, and technical publications, ensuring that students stay abreast of the latest developments in their field. Additionally, it provides study materials for competitive exams, giving students a competitive edge in their academic pursuits.

#### **Digital Infrastructure Redefining Access**

TKREC's digital infrastructure is a game-changer, providing seamless access to online databases from prestigious institutions worldwide. Through platforms like DELNET, IEEE, and NPTEL, students can access a wealth of resources, fostering a culture of research and innovation.



### **Efficient Management with New GenLib**

With the New GenLib Integrated Library Management System, book issuance is a breeze, thanks to advanced bar code technology. The library is also equipped with modern amenities such as photocopiers, power backup, and Wi-Fi, ensuring uninterrupted access to learning resources.

### **Embracing Online Learning**

TKREC's commitment to online learning is evident through its active participation in MOOC platforms like SWAYAM-NPTEL and Coursera. Its SWAYAM-NPTEL Local Chapter, recognized by IIT Madras, empowers faculty and students to engage with online courses from top institutions worldwide.

### **Shaping Future Engineers and Leaders**

TKREC's library is not just a repository of books but a dynamic hub of learning and innovation. Through its state-of-the-art facilities and aggressive pursuit of academic excellence, TKREC is shaping the engineers and leaders of tomorrow.

### **A Beacon of Academic Excellence**

TKREC's library stands as a beacon of academic excellence, providing students and faculty with unparalleled resources and opportunities for growth. By embracing technological advancements and fostering a culture of continuous learning, TKREC is preparing its students to thrive in a rapidly evolving world.

### **Transforming Knowledge into Action**

With its extensive collection, digital infrastructure, and commitment to online learning, TKREC's library empowers students to transform knowledge into action. Whether it's conducting research, preparing for exams, or exploring new fields, the library serves as a catalyst for intellectual curiosity and innovation.

### **A Dynamic Center for Innovation**

Driven by a passion for excellence, TKREC's library is not just a place to study but a dynamic center for innovation and discovery. Through collaboration, exploration, and a relentless pursuit of knowledge, TKREC is shaping the future of engineering education and making a lasting impact on society.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

#### **4.2.2**

#### **Percentage of expenditure for purchase of books/ e-books and subscription to journals/e-journals**

**year wise during the last five years****Response:** 10.05**4.2.2.1 Expenditure for purchase of books / e-books and subscription to journals/e-journals year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
67.89	59.74	53.56	55.68	48.63

File Description	Document
Institutional data in the prescribed format (data template merged with 4.1.2 and 4.4.1)	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA and counter signed by the competent authority (relevant expenditure claimed for purchase of books/ e-books and subscription to journals/e-journals should be clearly highlighted)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<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:**

Teegala Krishna Reddy Engineering College is dedicated to ensuring that its IT infrastructure remains at the forefront of technological advancements, providing students and faculty with access to cutting-edge resources. The college frequently updates its IT facilities to meet the evolving needs of its academic community, ensuring seamless connectivity and enhanced learning experiences.

Wi-Fi Connectivity: The college offers robust Wi-Fi connectivity across its campus, enabling students and faculty to access online resources and collaborate effectively. Regular updates to the Wi-Fi infrastructure ensure optimal performance and reliability. The most recent update was conducted in 20-04-2024, enhancing coverage and speed to accommodate the growing demands for online learning

and research activities.

**IT Facilities:** Teegala Krishna Reddy Engineering College houses state-of-the-art IT facilities, including well-equipped computer labs and advanced computing equipment. These facilities are regularly updated with the latest software and hardware to support various academic disciplines and research endeavors. The college also provides access to specialized software and tools relevant to specific engineering fields, ensuring that students receive hands-on experience with industry-standard technologies.

**Internet Bandwidth:** To facilitate uninterrupted access to online resources, the college allocates sufficient bandwidth for internet connectivity. The available internet bandwidth is 1GBPS, providing high-speed internet access to students and faculty across the campus with the help of 128 D Link Gigaswitches and 31 D Link routers . This ensures smooth streaming of multimedia content, efficient communication, and seamless participation in online learning platforms and research activities.

Teegala Krishna Reddy Engineering College prioritizes the continual enhancement of its IT facilities to meet the demands of modern education. With robust Wi-Fi connectivity, up-to-date IT resources, and ample internet bandwidth, the college empowers its academic community to thrive in an increasingly digital landscape.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

#### 4.3.2

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

**Response:** 2.54

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

Response: 1250

<b>File Description</b>	<b>Document</b>
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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 4.3.3

#### **Institution has dedicated audio visual centre, mixing equipment, editing facility, media studio, lecture capturing system(LCS) and related hardware and software for e-content development**

##### **Response:**

Teegala Krishna Reddy Engineering College is committed to fostering innovative teaching methods and enhancing the learning experience through advanced audio-visual technology. The institution boasts a dedicated Audio-Visual Centre equipped with state-of-the-art facilities for content creation, editing, and dissemination.

**Audio-Visual Centre:** At the heart of the college's multimedia capabilities lies its Audio-Visual Centre, a hub for the creation and delivery of engaging educational content. This facility is equipped with cutting-edge audio and visual equipment, including mixing consoles, editing suites, and media studios, enabling faculty to produce high-quality multimedia materials.

**Mixing Equipment and Editing Facility:** The college provides faculty with access to professional-grade mixing equipment and editing facilities, empowering them to create dynamic and interactive learning resources. From recording lectures to producing instructional videos, faculty members have the tools they need to deliver engaging content tailored to diverse learning styles.

**Media Studio:** Teegala Krishna Reddy Engineering College features a fully-equipped media studio where faculty can produce multimedia presentations, podcasts, and other educational materials. The studio is equipped with lighting, soundproofing, and green screen technology, providing a versatile environment for content creation.

**Lecture Capturing System (LCS):** To support flexible learning opportunities, the college has implemented a Lecture Capturing System (LCS) that enables faculty to record and archive lectures for on-demand access. This system allows students to review course materials at their own pace and provides a valuable resource for distance learning initiatives.

**Hardware and Software:** In addition to hardware resources, the college provides faculty with access to a comprehensive suite of software tools for e-content development. From video editing software to interactive multimedia platforms, faculty members have access to a wide range of tools to enhance their teaching materials.

Teegala Krishna Reddy Engineering College is equipped with a robust infrastructure for e-content development, enabling faculty to create engaging and interactive learning experiences for students. Through the Audio-Visual Centre, mixing equipment, editing facilities, media studio, LCS, and comprehensive hardware and software resources, the college remains at the forefront of educational innovation.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<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**

**Response:** 38.45

**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities of DDE and total expenditure excluding salary, year - wise, over the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
237.31967	206.3472	265.45145	232.28847	150.28426

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template merged with 4.1.2 and 4.2.2)	<a href="#">View Document</a>
Audited income and expenditure statement of the institution to be signed by CA and counter signed by the competent authority (relevant expenditure claimed for maintenance of physical facilities and academic support facilities should be clearly highlighted)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

##### 4.4.2

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

**Describe policy details of systems and procedures for maintaining and utilizing physical, academic and support facilities within a maximum of 500 words**

**Response:**

Teegala Krishna Reddy Engineering College stands as a bastion of educational excellence, underpinned by a robust framework of systems and procedures meticulously designed to ensure the seamless maintenance and utilization of our physical and academic support facilities. These facilities form the bedrock of our educational ecosystem, catering to a diverse range of academic and extracurricular activities essential for student growth and development.

**Laboratories:** Across various departments, our college maintains cutting-edge laboratories meticulously outfitted with state-of-the-art equipment tailored to each discipline. Here, students engage in immersive, hands-on learning experiences under the guidance of expert faculty. Stringent adherence to regular maintenance schedules and safety protocols ensures the optimal functionality and safety of these crucial learning environments.

**Library:** Our library serves as a veritable treasure trove of knowledge, offering an extensive collection of resources spanning books, journals, e-books, and multimedia materials. Guided by our dedicated library staff, students and faculty alike benefit from seamless access to these resources, facilitated by meticulously maintained systems for cataloging, circulation, and resource management.

**Sports Complex:** Recognizing the integral role of physical fitness and extracurricular engagement in holistic student development, our modern sports complex stands as a testament to our commitment to student well-being. Equipped with facilities for both indoor and outdoor sports and recreational activities, it serves as a vibrant hub for fostering a culture of active participation and overall student wellness.

**Computers and IT Infrastructure:** Our comprehensive IT infrastructure forms the digital backbone of our academic and administrative functions. From state-of-the-art computer labs to robust cyber security measures, every aspect is meticulously maintained to ensure seamless integration of technology into the educational experience.

**Classrooms:** Designed to inspire and facilitate effective teaching and learning experiences, our classrooms are equipped with cutting-edge teaching aids and audio-visual technologies. Through routine maintenance and meticulous scheduling, we strive to optimize classroom utilization while ensuring a comfortable and conducive learning environment for both students and faculty.

At Teegala Krishna Reddy Engineering College, our commitment to excellence extends beyond the confines of academia. Through rigorous adherence to comprehensive policies and procedures governing facility maintenance and utilization, we endeavor to enhance the overall educational experience and foster the holistic development of our students. By ensuring the efficient operation and accessibility of resources across laboratories, libraries, sports complexes, computers, and classrooms, we remain steadfast in our mission to nurture the leaders and innovators of tomorrow.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<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:** 64.78

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

2022-23	2021-22	2020-21	2019-20	2018-19
2036	1893	1806	1770	1805

#### File Description

#### Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format (data template)

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

#### 5.1.2

**Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations during the last five years**

**Response:**

The efforts taken by an institution regarding career counseling, including e-counseling and guidance for competitive examinations, over the last five years,

**Career Counseling Workshops and Seminars:** Hosting workshops and seminars to educate students about various career options, requirements, and opportunities in different fields.

**One-on-One Counseling Sessions:** Providing personalized counseling sessions where students can discuss their interests, strengths, and goals with a trained counselor who can offer guidance and advice.

**Career Assessment Tests:** Offering career assessment tests to help students identify their aptitudes, interests, and personality traits, which can inform their career choices.

**Information Sessions on Competitive Examinations:** Organizing sessions to inform students about competitive examinations relevant to their field of interest, including information on exam patterns, eligibility criteria, and preparation strategies.

**Online Resources and E-Counseling:** Providing access to online resources such as career guidance websites, webinars, and e-counseling platforms where students can seek guidance remotely.

**Mock Examinations and Practice Tests:** Arranging mock examinations and practice tests to help students prepare for competitive exams and familiarize themselves with the exam format and time constraints.

**Alumni Interaction and Networking:** Facilitating interactions between current students and alumni who have successfully pursued careers in various fields, allowing students to gain insights and advice from real-world experiences.

**Collaborations with Industry Partners:** Collaborating with industry partners to offer internships, apprenticeships, and mentor-ship programs that provide students with practical exposure and guidance in their chosen field.

**Regular Updates and Communication:** Keeping students informed about career-related events, opportunities, and resources through regular newsletters, emails, and online platforms.

**Feedback Mechanisms:** Establishing mechanisms for collecting feedback from students to assess the effectiveness of career counseling initiatives and identify areas for improvement.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 5.1.3

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



- 1.Soft skills**
- 2.Language and communication skills**
- 3.Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)**
- 4.Awareness of trends in technology**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Report with photographs on programmes conducted for awareness of trends in technology	<a href="#">View Document</a>
Report with photographs on programmes/activities conducted to enhance soft skills, Language & communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

#### **5.1.4**

**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

<b>File Description</b>	<b>Document</b>
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 monitoring the activities and number of 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:** 80.77

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

2022-23	2021-22	2020-21	2019-20	2018-19
627	622	473	474	542

### File Description

### Document

Institutional data in the prescribed format (data template)

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

### 5.2.2

**Percentage of students qualifying in state/ national/ international level examinations out of the**

**graduated students during the last five years**

(eg: NET/SLET/ Civil Services/State government examinations etc.)

**Response:** 11.09**5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.) year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
49	71	91	96	69

File Description	Document
List of students qualified year wise with details of examination and links to Qualifying Certificates of the students taking the examination	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<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 events during the last five years****Response:** 94**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at University / state / national / international level events (award for a team event should be counted as one) year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
19	12	8	3	52

File Description	Document
list and links to e-copies of award letters and certificates	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<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

#### **Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.**

#### **Describe the Student Council activity and students' role in academic & administrative bodies within a maximum of 500 words**

#### **Response:**

Teegala Krishna Reddy Engineering College (TKREC) is renowned for its commitment to fostering a holistic educational environment. A significant aspect of this commitment is the active involvement of students in the institution's governance through its Student Council and representation on various academic and administrative bodies.

**Active Student Council:** TKREC boasts a vibrant and dynamic Student Council that plays a pivotal role in enhancing the campus experience for its students.

**Roles and Responsibilities:** The Student Council at TKREC is entrusted with numerous responsibilities, including:

- 1. Organizing Events:** They plan and execute various cultural, technical, and sports events, fostering a sense of community and engagement among students.
- 2. Facilitating Communication:** The Council acts as a bridge between the student body and the college administration, ensuring that student grievances and suggestions are communicated effectively.
- 3. Leadership and Development:** Members of the Student Council are often involved in leadership training programs, which help them develop skills that are crucial for their future careers.

**Representation on Academic and Administrative Bodies:** TKREC ensures that students have a voice in key academic and administrative decisions by including them in various committees. This inclusive approach helps in creating a more responsive and student-friendly environment.

#### **Key Committees with Student Representation:**

- 1. Academic Council:** Student representatives in the Academic Council contribute to discussions on curriculum development, teaching methodologies, and academic policies. Their input ensures

that the educational programs remain relevant and up-to-date.

2. **Anti-Ragging Committee:** To maintain a safe and welcoming campus environment, student members in this committee work alongside faculty and staff to address and prevent any instances of ragging.
3. **Cultural and Sports Committees:** These committees, with active student participation, are responsible for organizing intra- and inter-college cultural festivals and sports meets, promoting a balanced and enriching college life.
4. **Disciplinary Committee:** Student involvement in this committee ensures that disciplinary measures are fair and considerate of student perspectives.

**Benefits of Student Involvement:**

1. **Enhanced Decision-Making:** Student participation in governance leads to decisions that better reflect the needs and aspirations of the student body.
2. **Skill Development:** Involvement in these bodies provides students with practical experience in leadership, project management, and teamwork.
3. **Community Building:** Active student governance fosters a stronger sense of community and belonging, enhancing the overall campus atmosphere.

Teegala Krishna Reddy Engineering College’s commitment to student involvement in both its Student Council and various academic and administrative committees highlights the institution’s dedication to creating a participatory and inclusive educational environment. This approach not only enriches the student experience but also prepares them for future leadership roles, ensuring they leave TKREC not just as graduates, but as well-rounded individuals ready to make meaningful contributions to society.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

**5.3.3**

**The institution conducts / organizes following activities:**

1. **Sports competitions/events**
2. **Cultural competitions/events**
3. **Technical fest/Academic fest**

**4. Any other events through Active clubs and forums****Response:** A. All four of the above

<b>File Description</b>	<b>Document</b>
Report on Sports, Cultural competitions/events, Technical/academic fests, Any other events through active clubs and forums along with photographs appropriately dated and captioned (whichever is applicable)	<a href="#">View Document</a>
List of students participated in different events year wise signed by the head of the Institution	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copy of circular/brochure indicating such kind of activities.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**5.4 Alumni Engagement****5.4.1**

**Total Amount of alumni contribution during the last five years (INR in lakhs) to the institution through registered Alumni association:**

**Response:** 47.76

**5.4.1.1 Total Amount of alumni contribution during the last five years (INR in lakhs) to the institution year wise through registered Alumni association:**

2022-23	2021-22	2020-21	2019-20	2018-19
8.97	10.815	8.34	7.99500	11.64

File Description	Document
List of alumnus/alumni with the amount contributed year-wise	<a href="#">View Document</a>
Annual audited statements of accounts of the HEI highlighting the Alumni contribution duly certified by the Chartered Accountant/Finance Officer	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 5.4.2

### **Alumni contributes and engages significantly to the development of institution through academic and other support system**

**Describe the alumni contributions and engagements within a maximum of 500 words**

#### **Response:**

Teegala Krishna Reddy Engineering College (TKREC), has cultivated a strong and active alumni network that plays a crucial role in the institution's continuous development. Alumni engagement at TKREC is multifaceted, encompassing contributions to academic support, infrastructure development, student mentoring, and career guidance. The college's alumni are instrumental in fostering a thriving educational environment that benefits current students and the institution as a whole.

#### **Academic Support:**

- 1. Guest Lectures and Workshops:** Alumni frequently return to TKREC to deliver guest lectures and conduct workshops. These sessions cover a wide range of topics, including emerging technologies, industry trends, and career readiness. By sharing their expertise and experiences, alumni provide valuable insights that complement the theoretical knowledge imparted by the faculty.
- 2. Curriculum Development:** Alumni who are established in various industries provide feedback and recommendations on the curriculum. Their input helps ensure that the courses remain relevant to current industry standards and practices, thereby enhancing the employability of graduates.
- 3. Research Collaborations:** Alumni involved in research and development often collaborate with the college on various projects. These collaborations can lead to joint research initiatives, publications, and innovations that elevate the academic profile of TKREC.

#### **Student Mentoring and Career Guidance:**

- 1. Mentorship Programs:** Alumni actively participate in mentoring programs, offering guidance and support to current students. They provide advice on academic challenges, career paths, and

personal development, helping students navigate their educational journey more effectively.

2. **Internship and Placement Support:** Many alumni hold influential positions in various industries and organizations. They facilitate internship opportunities and job placements for TKREC students, bridging the gap between academia and industry. Their networks and connections are invaluable in opening doors for fresh graduates.
3. **Career Counselling:** Through career counselling sessions, alumni help students understand the demands of the job market and prepare them for interviews and workplace challenges. They share tips on resume building, interview techniques, and professional etiquette.

**Community and Networking:**

1. **Alumni Meets and Events:** TKREC organizes regular alumni meets and events, fostering a sense of community and ongoing engagement. These gatherings provide a platform for alumni to reconnect with their peers, share their professional journeys, and contribute ideas for the college's development.
2. **Networking Opportunities:** Alumni events and online platforms facilitate networking among graduates, promoting professional growth and collaboration. This network is a valuable resource for current students seeking advice and opportunities in various fields.

The contributions and engagements of TKREC alumni significantly enhance the institution’s academic environment, infrastructure, and student support systems. Their involvement not only bridges the gap between academia and industry but also fosters a culture of continuous improvement and excellence.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the 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 governance of Teegala Krishna Reddy Engineering College aligns closely with the vision and mission of the college, which are as follows:

**Vision:** Imparting knowledge and instilling skills in aspiring students in the fields of Engineering, Technology, Science, and Management to address the emerging challenges of the society.

#### **Mission:**

**M1:** Encouraging scholarly activities that transfer knowledge in the areas of Engineering, Technology, Science and Management.

**M2:** Ensuring students of all levels, well trained to meet the needs of education and their future endeavours.

**M3:** Inculcating human values and ethics into the education system for the all-round development of the students.

#### **Quality Policy:**

Teegala Krishna Reddy Engineering College is committed to provide quality technical education to the students through dedicated and talented faculty, good Infrastructure, Laboratories, and research.

#### **Governance, Leadership, and active participation:**

The empowered team responsible for governance includes the principal, convener of various committees, teaching staff, Internal Quality Assurance Cell (IQAC) committee, non-teaching and supporting staff, student representative (C.R.), stakeholders, alumni, and the local management committee. The principal oversees the administration and academic processes, ensuring the proper implementation of the college's policies, rules, and action plans. To support the vision and mission, numerous committees are in place, such as the Examination cell, NSS, NCC, career and counseling cell, library, and sports, cultural and literacy, internal examination, anti-ragging, college magazine, disciplinary, scholarship, grievance redressal, among others. These committees work collaboratively to uphold the college's goals and values.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the 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 are effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc**

#### Response:

A well-defined hierarchical structure is established at TeegalaKrishna Reddy Engineering College (TKREC), delineating duties, responsibilities, accountability, and authorities at every level. The overall structure of the Institutional Management is categorized into "ACADEMICS" and "ADMINISTRATION," with a focus on establishing an effective administrative system that considers all stakeholders, particularly students.

*A well-structured administrative setup includes the highest decision-making Governing Body and several functional bodies and committees.*

**Governing Body:** The institution is governed by a Governing Body, serving as the policy-making body. This body convenes frequently to discuss agendas prepared by the principal, review the institution's performance, approve policy decisions, and deliberate on new proposals.

**Academic Council:** To scrutinize and approve the proposal with or without modification of the Board of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto, etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.

To make regulations regarding the admission of students to different programmes of study in the Autonomous College, keeping in view the policy of the Government.

To recommend to the Governing Body proposals for the institution of new programmes of study.

**Board of Studies:** Prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders, national requirement, and suggestion of Academic Council.

**IQAC Cell:**TKREC also has an Internal Quality Assurance Cell (IQAC),responsible for establishing quality parameters for variousacademic and administrative activities. The IQAC monitors theorganization of classwork and related academic activities,ensuring adherence to set quality standards.

The institution has its own service rules, policies, andprocedures to facilitate effectivefunctioning. The recruitment offaculty and supporting staff follows specific guidelines: facultyrecruitment adheres to the guidelines of the university and AICTE,and selected candidates undergo a university ratification process.Supporting staff are recruited by a panel consisting ofHeads ofDepartments, the Principal, and the Chairman. This comprehensiveapproach ensures a well-structured and governed environment atTKREC.

**Service rules, Procedures, Recruitment and Promotional Policies:**The Institute has a set of well-established rules, policies, and regulations within the frame work of AICTE, UGC, State Govt. and the affiliating university.

### **Teegala Krishna Reddy Engineering College has following perspective/strategic plan**

- Accreditation by National Bodies.
- Autonomy of the Institute.
- Better Industry/Institute relationship through MOUs to enhance the activity of entrepreneurship development.
- Implementation and effective use of ICT enabled learning management system.
- Involving students in Social and Cultural activities.
- Implementation of reforms in assessment and evaluation, digitalization of evaluation.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Institutional perspective Plan and deployment documents on the website	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### **6.2.2**

**Institution implements e-governance in its operations. e-governance is implemented covering the following areas of operations:**

- 1. Administration including complaint management**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examinations**

**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>
Provide Links for any other relevant document to support the claim (if any)	<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:**

Teegala Krishna Reddy Engineering college uses performance-based self-evaluation process to evaluate the faculty members.

Faculty members are assigned different responsibilities apart from teaching. Faculty members are assigned responsibility of different committees, should improve their knowledge by attending FDP's, workshops, and short-term courses. They should do research and publish their work in reputed journals and conferences.

Some of the points considered in Self appraisal:

- Academics
- Research and development
- Academic contribution to department/Institution
- Self-development
- Administration contribution

Teegala Krishna Reddy Engineering college provides good welfare for Teaching and non-teaching staff.

- Medical/Maternity leave
- Health camp for staff
- ICT Tools
- Computing facility
- Wi-Fi facility
- Cafeteria
- Sports Facility
- ATM Facility
- Health emergency facility
- Incentives to faculty

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for 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:** 56.3

**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
175	182	103	80	23

<b>File Description</b>	<b>Document</b>
Policy document on providing financial support to teachers	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<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/workshops 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 teachers undergoing online/ face-to-face Faculty Development Programmes (FDPs)/ Management Development Programmes (MDPs) during the last five years**

**Response:** 51

**6.3.3.1 Total number of teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP) during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
175	120	105	75	35

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

## 6.4 Financial Management and Resource Mobilization

### 6.4.1

#### **Institutional strategies for mobilisation of funds other than salary and fees and the optimal utilisation of resources**

#### **Describe the resource mobilisation policy and procedures of the Institution within a maximum of 500 words**

#### **Response:**

Teegala Krishna Reddy Engineering College adheres to a well-structured process for the mobilization of funds and resources, involving multiple committees within the institute, Department Heads, and the Accounts office. The institution has established specific rules governing the usage of funds and the utilization of resources.

In terms of fund mobilization, the student tuition fee constitutes a significant portion of the institute's income. Additionally, TKREC actively seeks sponsorships from individuals and corporate entities to support cultural events and fests, diversifying its sources of funding. This strategic approach ensures financial sustainability and effective resource allocation within the institution.

At the start of each financial year, the administration at Teegala Krishna Reddy Engineering College (Autonomous) develops a strategy for allocating available funds most effectively.

**Finance team:** The management members, principal, finance manager and budget committee monitor the utilization of resources.

**Funds for the COLLEGE:** Funds have been received from the student fees, government, and non-government agencies. The major source of revenue for the college is the Annual fee collected from students. The fee is collected as per the fee & guidelines fixed by the Telangana State fee regulatory

authority.

**Interest on corpus fund Budget Planning:** Every year the Heads of the Department, Administrative Officer and librarian must submit the budget requirements to the management through proper channels. Finance and Budget committee analyses the submitted documents and reports the optimal summary to the Governing Body for approval. The approved Budget proposal is effective thereafter. The allocated funds are utilized to purchase equipment, computers, software's, chemicals, consumables, non-consumables, machineries, etc., The finance committee review the use of resources, placing of the quotations and the purchase orders. It monitors and audits the budgets, utilization, expenses, accounts etc. They make recommendations for better handling of resources and effective mobilization of available funds. It ensures that the fund utilization is within the limit or allotted margin. Based on the recommendation from the principal and based on the need, funds also allotted beyond the budget, because the management always supportive to skill enhancement programs to students, and faculty.

### Optimal utilization

After approval from Board of Management, finance & budgeting committee utilizing funds under different categories, such as purchase of books, equipment, sports, salary, incentives and up-gradation of staff, miscellaneous expenses and for certain emergency situations, various programs like FDP, seminars, Guest lectures, Workshops, Conferences, Meetings, Stationary, Remuneration/Honorarium, Security, Staff Welfare, Vehicle Maintenance, Building Maintenance, Computer Maintenance, AMC of drinking water, Gardening Maintenance, library maintenance, Office maintenance, student training programs and the placement related activities, Wi-Fi, etc.,

### Secondary Resources for Funds

Institute seeks additional funding from various research agencies such as AICTE, UGC, SERB etc.,

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

## 6.4.2

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

**Response:** 3.43

#### 6.4.2.1 Total Grants received from government/non-government bodies, philanthropists year wise during last five years (not covered in Criterion III and V) (INR in Lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
2.5	0	0.93	0	0



File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copy of the sanction letters received from government/ non government bodies and philanthropists	<a href="#">View Document</a>
Annual audited statements of accounts highlighting the grants received	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 6.4.3

#### **Institution regularly conducts internal and external financial audits regularly**

**Enumerate the various internal and external financial audits carried out during the last five years with the mechanism for settling audit objections within a maximum of 500 words**

#### **Response:**

TKREC has instituted a comprehensive mechanism to conduct both internal and external audits of its financial transactions annually. This rigorous auditing process is in place to ensure strict financial compliance and accountability within the institution.

**Internal Audit:** The management members, principal, finance manager, Accounts Assistants and budget committee monitor the utilization of resources.

All bills and vouchers are audited annually by internal financial audit committee. Any inconsistency or discrepancies are resolved by the committee.

**External Audit:** The accounts of the college are audited by chartered accountant regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management. All these mechanisms exhibit the transparency being maintained in financial matters and adherence to financial discipline. The audited statement is duly signed by the chartered Accountant.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

### 6.5.1

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

**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of –**

- **Incremental improvements made for the preceding five years with regard to quality (in case of first cycle)**
- **Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)**

**Describe two practices institutionalized as a result of IQAC initiatives within a maximum of 500 words**

#### **Response:**

The Internal Quality Assurance Cell (IQAC) at Teegala Krishna Reddy Engineering College (TKREC) stands as a cornerstone in ensuring continuous enhancement and maintenance of quality across all academic and administrative operations. Guided by the principles set by accrediting bodies like the National Assessment and Accreditation Council (NAAC), TKREC's IQAC operates under the dynamic leadership of its Principal, fostering collaboration among faculty, administrative staff, and students.

Central to its mission is the development and implementation of a comprehensive quality assurance framework tailored to TKREC's specific needs. This framework covers diverse areas including curriculum design, faculty development, student support services, infrastructure maintenance, and research initiatives. Through regular monitoring and evaluation, the IQAC ensures alignment with the institution's vision and compliance with regulatory standards.

The IQAC fosters a culture of transparency and continuous improvement through regular meetings, workshops, and participatory decision-making processes. It spearheads initiatives to seek external accreditation from bodies such as NAAC or NBA, validating TKREC's commitment to quality on a national level. Student-centric initiatives, including feedback mechanisms, surveys, and focus group discussions, play a crucial role in identifying areas for improvement and implementing corrective measures.

Research and innovation are also prioritized, with the IQAC encouraging faculty and students to engage in research activities that contribute to knowledge creation and dissemination.

The initiatives of IQAC span across different areas such as it has focused on improving the quality of teaching and learning by implementing innovative methodologies and incorporating modern pedagogical techniques., ensure student progress and well-being, the IQAC has established a robust monitoring

mechanism. This includes mentoring programs, daily attendance SMS alerts to parents, regular academic reviews, and providing remedial measures as needed. IQAC has undertaken reforms in the examination system to ensure fairness, transparency, and efficiency in the assessment process. Embracing technology, the IQAC has promoted the use of Information and Communication Technology (ICT) tools to enhance teaching, learning, and administrative processes. In Encouraging faculty development, the IQAC facilitates participation in Faculty Development Programs (FDPs), workshops, and encourages faculty to publish papers in journals and conferences to keep them updated with the latest developments in their respective fields. Recognizing the importance of industry-academia collaboration, the IQAC promotes interactions between the college and industry stakeholders. This includes establishing Memoranda of Understanding (MOUs), organizing workshops, seminars, field visits, and facilitating real-time projects for students.

In addition to these broader initiatives, TKREC has institutionalized best practices to further enhance the learning experience:

**Institute Best Practice I: Faculty-Student Interaction**

An induction program is conducted for first-year students to acquaint them with the course curriculum and college environment.

Each faculty member is assigned a group of twenty students for mentoring.

Mentors meet regularly with students to discuss attendance, academic performance, and provide necessary counseling and guidance to improve their overall performance and participation in extracurricular activities.

**Institute Best Practice II: Institute-Industry Interaction**

Departments are encouraged to establish MOUs with industry partners and other institutes.

Organizing workshops, seminars, and field visits to expose students to industry practices and requirements. Students are provided with opportunities to work on real-time projects, fostering practical skills and industry readiness.

Additionally, the preparation of the Annual Quality Assurance Report (AQAR) as per NAAC guidelines underscores the commitment to continuous improvement and accountability.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

**6.5.2**

**The institution reviews its teaching learning process, structures & methodologies of operations and**

**learning outcomes at periodic intervals through IQAC set up as per norms**

**Describe any two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC within a maximum of 500 words each.**

**Response:**

At Teegala Krishna Reddy Engineering College (TKREC), the institution's commitment to excellence in education is reflected through the rigorous review of its teaching-learning processes, operational structures, methodologies, and learning outcomes. This review is facilitated by the Internal Quality Assurance Cell (IQAC), established in accordance with established norms and guidelines.

The IQAC serves as a pivotal entity within TKREC, ensuring that quality enhancement and sustenance remain at the forefront of all academic and administrative activities. Comprising faculty members, administrative staff, and student representatives, the IQAC operates under the guidance of the institution's leadership, fostering a collaborative approach towards continuous improvement and excellence in education.

One of the primary functions of the IQAC is to develop and implement a comprehensive quality assurance framework tailored to TKREC's specific needs and objectives. This framework encompasses various aspects, including curriculum design and delivery, faculty development programs, student support services, infrastructure maintenance, and research initiatives. By regularly monitoring and evaluating these components, the IQAC ensures alignment with the institution's vision while adhering to regulatory requirements.

The IQAC conducts regular reviews and assessments to evaluate the effectiveness of the teaching-learning process and operational structures. Through data analysis, feedback mechanisms, and stakeholder consultations, the IQAC identifies areas for improvement and formulates targeted interventions to address them. This iterative approach to quality assurance ensures that TKREC remains responsive to the evolving needs and expectations of its stakeholders.

Furthermore, the IQAC plays a crucial role in fostering innovation and best practices in teaching and learning. By organizing workshops, seminars, and faculty development programs, the IQAC promotes the adoption of innovative pedagogical methods and instructional technologies. This focus on innovation ensures that TKREC's teaching-learning process remains dynamic and responsive to the changing demands of the engineering profession.

In addition to internal quality assurance mechanisms, the IQAC also spearheads initiatives to promote

external accreditation and benchmarking. By seeking accreditation from renowned bodies such as the National Assessment and Accreditation Council (NAAC), TKREC aims to validate its commitment to quality and excellence on a national level. The IQAC plays a pivotal role in coordinating the accreditation process, ensuring compliance with accreditation standards, and preparing the necessary documentation for assessment.

The review of learning outcomes is another crucial aspect of TKREC's quality assurance efforts. Through systematic assessment and analysis, the IQAC evaluates the extent to which students have achieved the intended learning outcomes of their programs. This data-driven approach enables TKREC to identify areas of strength and weakness in its academic programs and implement measures to enhance student learning and success.

Thus, the IQAC at Teegala Krishna Reddy Engineering College plays a central role in ensuring the continuous improvement and excellence of the institution's teaching-learning processes, operational structures, and learning outcomes. Through its multifaceted approach to quality assurance, the IQAC contributes significantly to TKREC's reputation as a leading institution of engineering education.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 6.5.3

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

- 1. Academic and Administrative Audit (AAA) and follow up action taken**
- 2. Conferences, Seminars, Workshops on quality conducted**
- 3. Collaborative quality initiatives with other institution(s)**
- 4. Orientation programme on quality issues for teachers and students**
- 5. Participation in NIRF and other recognized ranking like Shanghai Ranking, QS Ranking Times Ranking etc**
- 6. Any other quality audit recognized by state, national or international agencies**

**Response:** A. Any 5 or more of the above

File Description	Document
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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>
Link to Minute of IQAC meetings, hosted on HEI website	<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:**

TKREC promotes the policies of gender equity in admissions, academic activities, recruitment, and administrative functionality. TKREC organizes various programs based on annual gender sensitization action plan to sensitize students and employees regarding gender equity, gender sensitization, and women empowerment.

**Curricular Integration:** To integrate gender equity and sensitivity into the academic curriculum, TKREC offers a mandatory course titled 'Gender Sensitization' to II B.Tech. students across all disciplines. The course incorporates topics related to gender studies, women's rights and helps students develop the necessary skills to address gender-related challenges in their respective fields.

**Inclusiveness:** TKREC creates inclusive and supportive environments for girl students in all curricular, extracurricular, and co-curricular activities and provides adequate facilities. The girl students are nominated as class representatives, members of various committees at department and institute levels. Training and placement opportunities are inclusive and accessible to all students. Girls wings of NCC and NSS are actively engaging in all community service and outreach programs. These practices create an inclusive learning environment, where all students feel valued and respected regardless of gender.

**Faculty Development and Training:** TKREC provides equal training and professional development opportunities for faculty members regardless of gender. Women Faculty are ensured inclusion in administrative positions and also in committees constituted for curricular as well as non-curricular activities. Faculty members are trained to create an inclusive learning environment, where all students are given equal opportunities for academic and professional growth.

**Facilities for Women/Girls:** TKREC provides adequate facilities for girl students and women employees on the campus including girls rooms, safe and accessible restrooms, study spaces with required facilities. Separate Girls' hostels are provided with gym facility and dispensary with lady doctor and a nurse. Separate space is provided for girls in the central library and the college canteen to avoid inconvenience.

**Policy Development and Implementation:** TKREC has established clear policies and guidelines that promote gender equity and sensitivity. These guidelines are effectively communicated to students through posters and also in orientation programs. All concerned committees such as Women Protection Cell/Internal Complaints Committee, Anti-Ragging Cell and Grievance Redressal Cell actively engage in promoting well being of all the girl students and staff members in the college.

**Internal Complaint Committee:** The committee is established to monitor the problems and complaints raised by women employees and girl students. It facilitates counselling services to *sensitize and empower the students towards the cause of gender equality*. The committee also participates in organising International Women’s Day, self-defence and confidence building programs, skill development programs for girl students.

**Partnerships and Collaborations:** TKREC collaborates with external organizations and stakeholders working on gender issues to provide valuable resources and support for promoting gender equity on campus. The College organizes gender awareness and self-defence ‘Karate’ programs in association with Telangana Police women's organization **SHE Team** and NSS Units. TKREC also collaborates with training institutes to provide technical training and certifications to girl students.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 7.1.2

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

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment
6. Wind mill or any other clean green energy

**Response:** A. Any 4 or more of the above

File Description	Document
Permission document for connecting to the grid from the Government/ Electricity authority	<a href="#">View Document</a>
Geo-tagged photographs of the facilities.	<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



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

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

**Response:**

### **7.1.3 SOLID WASTE MANAGEMENT**

Solid waste refers here to all non-liquid wastes. In general, this does not include excreta, although sometimes nappies and the faeces of young children may be mixed with solid waste. Solid waste can create significant health problems and a very unpleasant living environment if not disposed of safely and appropriately. If not correctly disposed of, waste may provide breeding sites for insect-vectors, pests, snakes and vermin (rats) that increase the likelihood of disease transmission. It may also pollute water sources and the environment.

Solid waste includes both biodegradable and non-biodegradable components. The non-biodegradable solid waste generated in the campus include, paper, plastics, metal cans etc. Biodegradable waste includes food waste, vegetable peels, leaves etc.

1. 'Use and throw' items like plastic cups, plates etc. used in the college canteen are replaced by reusable items steel glasses and plates. Glass, paper and metal waste is sold for recyclers.
2. Food waste and non-biodegradable waste are collected in separate bins. Biodegradable waste is disposed off in four dumping yards of size 3m x 3m x 2m, specially earmarked for the purpose.

### **7.1.3 LIQUID WASTE MANAGEMENT**

Liquid waste that is generated in the institute falls into three following categories.

1. Septic tank effluents from various sanitary blocks, water used for washing and cleaning of utensils etc. from canteen
2. Wastewater from laboratories using chemicals
3. Wastewater from RO plant

As the college is located in rural un-sewered area, waste water generated from the sanitary facilities is disposed off into septic tanks located at different places in the campus and their effluents combined with canteen waste water is used for gardening, watering trees etc. The excess wastewater will be directed into natural drain passing near by the college campus.

Waste water generated from the laboratories is very small in quantity; hence they are handled along with septic sewage.

RO plant wastewater is diluted with canteen wastewater and used for gardening, watering trees etc.

### 7.1.3 E-WASTE MANAGEMENT

E-waste or electronic waste is created when an electronic product is discarded after the end of its useful life. E-waste mainly includes obsolete electronic devices, such as computer systems, servers, monitors, compact discs (CDs), printers, scanners, copiers, calculators, fax machines, battery cells etc. E-waste is disposed off through vendors.

TKREC has very efficient mechanism to dispose E wastes generated from various sources. E-wastes are generated from computer laboratories, electronic labs, Physics Labs, Chemistry Lab, Biotech Labs, Academic and Administrative Offices. The e-waste includes out of order equipment's or obsolete items like lab instruments, circuits, desktops, laptops and accessories, printer, charging and network cables, Wi-Fi devices, cartridges, sound systems, display units, UPS, Biometric Machine, scientific instruments etc. All these wastes are put to optimal use. All such equipment's which cannot be reused or recycled is being disposed off through authorized vendors. Instead of a new procurement Buy-Back option is preferred for technology up gradation.

### 7.1.3 WASTE RECYCLING SYSTEM

The stakeholders of TKREC specially re-use the grey water which is obtained from the various domestic activities and they re-use the same water for gardening and vegetable fields etc. Water recycling is also done as per the direction of the competent authority in broader scale as and when required.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>
Geo-tagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.4

**Water conservation facilities available in the Institution:**

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

**Response:** A. Any 4 or more of the above

File Description	Document
Green audit reports on water conservation by recognised bodies	<a href="#">View Document</a>
Geo-tagged photographs of the facilities	<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>

### 7.1.5

#### Green campus initiatives include

**Describe the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles , Pedestrian Friendly pathways , Ban on use of Plastic, landscaping with trees and plants etc in 500 words**

#### Response:

##### Green landscaping

- Nurturing lush green environment with lawns, plants, and trees on the campus.
- Cultivation of medicinal plants on the campus.
- Saplings are distributed to the staff and students for plantation.

##### Restricted entry of automobiles

- The staff and the students are encouraged to use the college transport instead of their own vehicles for safety, security, fuel conservation and to reduce environmental pollution.
- The college buses are checked for pollution by the authorized agency.

##### Pedestrian friendly pathways

- Vehicle parking space at the main entrance of the college.
- Comfort walking through the pedestrian friendly pathways.
- The internal roads are lined with trees and they are properly maintained by the campus maintenance committee.

##### Awareness programmes

- Regular Clean and Green and Clean India programs by NSS.
- Environmental consciousness through plantation activities.

##### Conservation of resources

- Rain water harvesting wells for preservation of water.
- Installation of solar panels for using alternative sources of energy.
- Use of LED lights for efficient use of energy.

<b>File Description</b>	<b>Document</b>
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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 7.1.6

**Quality audits on environment and energy are regularly undertaken by the institution**

**The institutional environment and energy initiatives are confirmed through the following**

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

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Report on environmental promotion and sustainability 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>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**7.1.7*****The Institution has Differently-abled (Divyangjan) friendly, barrier free environment***

***Write description covering the various components of barrier free environment in your institution in maximum of 500 words***

- **Built environment with Ramps/lifts for easy access to classrooms**
- **Divyangjan friendly washrooms**
- **Signage including tactile path, lights, display boards and signposts**
- **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- **Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading**

**Response:**

The right to Education focuses on the need to have inclusive education, which means that educating students with learning difficulties and identified disabilities have the right to fulfilment of their educational needs. TKREC provides equal opportunities to all students with the guidelines given by the State government. This is important to create an inclusive environment that ensures a learning environment that is conducive for the Persons with Disabilities. The college ensures necessary support services and accommodations to facilitate the engagement of Divyangjan in all activities.

The institute provides barrier-free environment where people with disabilities can move about safely and freely and use the facilities within the built environment. The environment supports the independent functioning of individuals so that they can participate without assistance in everyday activities within the campus. Buildings/places/ transportation systems are made barrier free. College buildings have provision of lifts for barrier free access for students, staff, visitors and differently-abled people. There are two lifts, one in NB Block and the other in K Block.

- The buildings, labs, library, toilets, etc. are barrier-free and accessible for all types of differently-abled persons.
- Facilities with ramps and lifts for easy access to classrooms.
- Provision of wheelchair for emergency situations.
- Provision of assistance or facility needed in taking up examinations.

All these facilities and support systems create an environment of acceptance and nurturance of people with disabilities

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 7.1.8

**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and such other diversities (within 500 words).**

**Response:**

TKREC has incorporated an inclusive environment into its institutional culture, by transcending differences and fostering harmony towards cultural, regional, linguistic, communal and socio-economic diversities.

- College provides access to 'Education for All' by strictly following the prevailing policies and rules of the government.
- TKREC admission policy also encourages 'inclusion' to give preference to students from rural and under-privileged backgrounds.
- Nurture spirit of oneness and inclusiveness by educating students from diverse backgrounds.
- Equal opportunities to all students in yearlong activities and academic/administrative positions to instil a feeling of unity and togetherness.
- A 6-day student induction programme for freshers to overcome regional, social and cultural differences among students.
- Well-articulated Code of Conduct and policies on gender equity, grievance redressal are followed.
- Frequent community extension activities to foster inclusiveness.
- The committees constituted in the college like Discipline/Anti-ragging/Student Grievance Redressal Cell, Internal Complaint Committee, Student Welfare Committee, and SC/ST Committee ensure justice, equality and inclusiveness.
- Expert guidance for internal issues related to students or student groups. These issues are handled in a very sensitive manner keeping the socio-cultural background of students in mind.
- Support/mentoring system for the students from different linguistic backgrounds to help the students from underprivileged backgrounds and alien culture to take the advantage and participate with other students in various activities.
- Regular gender sensitization programs and counselling sessions for the students to create an inclusive environment on the campus.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.9

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

**Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.**

**Response:**

The effectiveness of the awareness programmes and sensitization on duties, values, obligations and responsible citizenship is evident from the committed engagement of the students and staff in the community development and civic consciousness expressed in action.

- Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities.
- Incorporation of the course titled 'Indian Constitution' in the curriculum to teach fundamental rights and duties to students.
- Annual conduct of Student Induction Program to raise awareness about human values, rights, duties and responsibilities as a citizen of India.
- Celebration of all national days of importance to mark and promote nationhood and national integration.
- Celebration of National Unity Day and NSS Day promote the values such as unity, integrity, and patriotism and make students aware of their responsible as citizens of India.
- Road safety rally to spread the awareness among citizens on social issues like road safety.
- Conduct of awareness programmes in association with SHE team on social sensitivity and gender equity.
- Awareness program on consequences of drug abuse.
- Programs on National Voter's Day and Right to Vote raise awareness about voting and its importance in independent country.

File Description	Document
Details of activities that inculcate values necessary to nurture students to become responsible citizens	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.10**

**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

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

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Report on the student attributes facilitated by the Institution	<a href="#">View Document</a>
Policy document on code of ethics.	<a href="#">View Document</a>
Handbooks, manuals and brochures on human values and professional ethics	<a href="#">View Document</a>
Document showing the Code of Conduct for students, teachers, governing body and administration as approved by the competent authority.	<a href="#">View Document</a>
Constitution and proceedings of the monitoring committee.	<a href="#">View Document</a>
Circulars and geo-tagged photographs with date and caption of the activities organized under this metric for teachers, students, administrators and other staff	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<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:**

**TKREC Management Information System (MIS portal)**



## Objectives of the Practice

1. To maintain regular academic activity efficiently.
2. To provide transparency of the data and the activities
3. To ensure availability of data to the stakeholders.
4. To monitor the student progress in every semester/year.
5. To reduce paper work and improve ease and efficiency in processing the data.

## The Context

The use of digital technology to manage the academic activities will ensure effective functioning of the institution. A technology-enabled data management system provides ready and relevant information to stakeholders for decision making. For any educational institute, academic activity is the major decision making component and proper maintenance and process of this data leads to success of the institute. In this direction, the college has a well-established Management Information System to standardize and automate various processes across all the departments to ensure availability and transparency of data.

## The Practice

TKREC MIS portal is completely developed and maintained by a team of staff members of the institute. The system is developed to maintain and provide information on the fly regarding academic activity of the institution. Authenticated users have access to the system and authorized users are permitted to enter/modify the data. MIS provides information to all levels of administration/management for decision making.

- TKREC Management Information System (MIS) streamlines the regular academic activity of the institution. It is an intranet based application and can be accessed from anywhere in the institution. Instead of maintaining student data partially at different places, MIS portal was created to maintain the information properly and efficiently.

## Activities supported:

- Teacher's personal information and professional details, student feedback status, teacher performance reports, etc are made available.
- Time tables, nominal rolls, register, activity diary, student mentoring details, internal marks reports, result analysis with consolidated reports are accessible in the portal.
- Student's personal information, attendance, and academic history including subject-wise internal marks and grade points are maintained through this academic management system.
- Faculty members, after each class and each lab session, enter the attendance in the portal. If the student is absent for any class on that day, message will be sent to parent about his/her absence by evening.
- Class in-charge prepares monthly attendance using MIS portal and sends as message to parents.
- Attendance and internal and assignment marks will be made available to students and to their parents. Marks lists and reports of consolidated marks are automatically generated.
- Reports of poor performers and irregular students are available to HoD/ class in-charges and they counsel those students and intimate the parents, if required.

## Evidence of Success

- Efficient monitoring of regular academic activity of the institute.

- MIS portal manages entire academic activity efficiently and generates instant reports.
- Transparency of data and activities provided.
- Well-managed, non-redundant and instant information for decision making.

#### **Problems encountered:**

- Student and faculty personal information need to be entered in server.
- Faculty should enter the data regularly after the class.
- Department in-charge should monitor the locking and unlocking of data.
- Sophisticated server required to store and to maintain the data.
- Provision of separate room to establish the server and the system for easy maintenance.

The required resources are immediately provided by the management to enable the stakeholders to utilize the system effectively.

#### **BEST PRACTICE-2**

##### **Participative Management**

##### **Objectives of the Practice: Participative Management**

- To create an inclusive environment.
- To inculcate a sense of belongingness and responsibility in the faculty for the overall development of the college through collaborative and participative management.
- To increase the productivity and efficiency of the organization, as well as building strong relations with people at different levels.
- To develop dynamic human resources and facilitate teamwork.

##### **Context**

For the effective functioning of the organisation, it is imperative that all its employees feel a sense of belongingness and learn to take responsibility. For an academic institution it is important to decentralise the work load so that different dedicated work teams as committees can verify the progression of the institution.

##### **The Practice**

For the overall administration of the institution, there are several requirements that need to be planned and addressed effectively. Generally, the overall responsibility for this lies with the Principal of the college, who, along with a team of administrative staff, attempt to execute the same. The Principal of the college serves as chairman of all these committees. The practice at TKREC has been to draw in all its faculty members into different administrative, academic, and co-curricular roles so that each and every faculty of the college feels responsible for the overall success of the college. The faculty are, therefore, grouped into various committees. Each committee is headed by a senior faculty member, who serves as convenor of the committee. The following are some of the major committees of the college: Board of Governors, Academic council, Board of Studies, Internal Quality Assurance Cell, Academic Audit Committee, Finance Committee, Purchase Committee, Admission Committee, Exam Committee,

Planning and Evaluation Committee, Time Table Committee, Institution-industry Cell, EDC, Anti-drugs committee, Library Committee, R&D Cell, Grievance Redressal Cell for Staff and Students, Anti-ragging Committee, Committee for SC/ST, Alumni Committee.

### **Evidence of Success**

All decisions related to a given domain or portfolio is discussed in detail and resolutions arrived at by the committee for final approval by the central administrative team. For example, any international conference to be organised by the college, the R&D Cell and IIC and concerned departments take the responsibility of conducting it. The committees take initiation, decide conference theme, prepare a brochure and circulate it, call for papers, send for peer reviews, send invitations, and take all other responsibilities for successful conduction of the conference.

### **Problems Encountered/ Resources Required:**

The challenges faced in such an approach is to bring faculty members together on one common platform to be able to appreciate the overall vision of the institution and then associate with other members to accomplish the tasks at hand and deliver effectively. All faculty members, senior faculty members to newly recruited faculty, are part of participative management system. Junior faculty members learn to appreciate the challenges faced in administration.

## **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:**

Teegala Krishna Reddy Engineering College (TKREC) stands as a beacon of excellence in engineering education, committed to fostering innovation, research, and holistic development. Among its various areas of focus, one distinctive priority lies in its emphasis on industry-academia collaboration. This synergy between academia and industry sets TKREC apart, enriching its educational ecosystem and preparing students to excel in real-world scenarios.

At TKREC, the emphasis on industry-academia collaboration permeates every aspect of the institution's functioning, from curriculum design to research initiatives and experiential learning opportunities. This distinctive approach is rooted in the college's vision to bridge the gap between theory and practice, ensuring that students not only acquire theoretical knowledge but also develop practical skills that are relevant to the industry.

One of the key manifestations of TKREC's commitment to industry-academia collaboration is its industry-oriented curriculum. The college constantly revises its curriculum in consultation with industry

experts to ensure that it remains aligned with the evolving needs and trends of the industry. By incorporating industry-relevant topics, cutting-edge technologies, and hands-on projects into the curriculum, TKREC equips its students with the skills and knowledge required to thrive in the competitive industrial landscape.

Moreover, TKREC fosters a culture of industry engagement through various initiatives such as guest lectures, workshops, seminars, and industry visits. These interactions provide students with valuable insights into the practical applications of their academic learning and expose them to the latest industry trends, technologies, and best practices. Additionally, the college encourages students to undertake industry internships and collaborative projects, enabling them to gain real-world experience and establish meaningful connections with industry professionals.

TKREC's commitment to industry-academia collaboration extends beyond the classroom and into the realm of research and innovation. The college actively promotes interdisciplinary research collaborations between faculty members, students, and industry partners to address real-world challenges and develop innovative solutions. Through industry-sponsored research projects, consultancy services, and technology transfer initiatives, TKREC contributes to the advancement of knowledge and technology while fostering mutually beneficial partnerships with the industry.

Furthermore, TKREC provides ample opportunities for students to engage in entrepreneurial activities and innovation-driven projects. The college has established incubation centers, innovation labs, and startup accelerators to nurture entrepreneurial talent and support the development of innovative ideas into viable business ventures. By encouraging students to explore entrepreneurship and innovation, TKREC empowers them to become job creators rather than just job seekers, thus contributing to economic growth and societal development.

In addition to its focus on industry-academia collaboration, TKREC is also committed to promoting social responsibility and sustainable development. The college actively engages in community outreach programs, environmental initiatives, and social entrepreneurship projects to address societal challenges and promote inclusive growth. By instilling a sense of social consciousness and ethical responsibility in its students, TKREC aims to create socially responsible engineers who can contribute positively to society.

In conclusion, Teegala Krishna Reddy Engineering College distinguishes itself through its unwavering commitment to industry-academia collaboration. By integrating industry-relevant curriculum, fostering industry engagement, promoting research and innovation, and nurturing entrepreneurial talent, TKREC prepares its students to excel in the dynamic and competitive world of engineering. Through its holistic approach to education, TKREC not only equips students with technical skills but also instills in them the values of integrity, professionalism, and social responsibility, thus shaping them into well-rounded individuals and future leaders in their respective fields.

File Description	Document
Appropriate webpage in the Institutional website	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

Teegala Krishna Reddy Engineering College (TKREC) maintains a comprehensive organizational structure to ensure effective governance, academic excellence, and holistic development of students. Here is an overview of key committees and bodies that contribute to the smooth operation and management of the college:

#### **Board of Governors (BOG)**

The Board of Governors is the highest governing body at TKREC, responsible for strategic decisions, policy formulation, and institutional oversight. The BOG ensures that the college's vision and mission are adhered to and guides long-term planning and resource allocation.

#### **Academic Council and Board of Studies**

The Academic Council oversees academic affairs, curriculum design, and academic policies. It works closely with the Board of Studies, which focuses on curriculum development and revisions in specific disciplines, ensuring that academic programs remain relevant and up-to-date.

#### **Finance Committee**

This committee manages the financial aspects of the college, overseeing budgeting, financial planning, and resource allocation. It ensures financial stability and compliance with regulatory requirements.

#### **Exam Committee**

The Exam Committee is responsible for conducting examinations, maintaining academic integrity, and ensuring a fair and transparent evaluation process. It establishes guidelines for exams and works with faculty to manage assessment procedures.

#### **Planning and Evaluation Committee**

This committee focuses on institutional planning and evaluation, helping TKREC achieve its strategic goals. It assesses the effectiveness of existing programs and identifies areas for improvement.

#### **Internal Quality Assurance Cell (IQAC)**

The IQAC plays a crucial role in maintaining and improving the quality of education at TKREC. It monitors academic standards, conducts internal audits, and recommends measures for continuous improvement.

#### **Grievance Redressal Committee for Staff and Students**

TKREC has a dedicated committee for addressing grievances from staff and students. This committee ensures a fair and transparent process for resolving issues and promoting a positive campus environment.

## **Anti-Ragging Committee**

This committee ensures a safe and respectful environment by preventing ragging and other forms of harassment. It implements anti-ragging policies and takes swift action against violations.

## **Committee for SC/ST, Anti-Drugs Committee, and Internal Complaint Committee (ICC)**

These committees are responsible for promoting inclusivity, preventing discrimination, combating drug abuse, and addressing complaints related to harassment or discrimination. They play a critical role in ensuring a safe and inclusive campus environment.

## **Institution-Industry Cell (IIC) & Entrepreneurship Development Cell (EDC)**

These cells focus on fostering industry partnerships and promoting entrepreneurship among students. They provide networking opportunities, industry projects, and support for student startups.

## **Other Committees and Cells**

- **Academic Audit Committee:** Conducts academic audits to ensure compliance with academic standards.
- **Alumni Committee:** Engages with alumni and organizes alumni events.
- **Extra-Curricular/Co-Curricular Committee:** Manages extra-curricular activities and events.
- **IPR and R&D Cell:** Focuses on intellectual property rights and research and development.
- **Library Committee & NPTEL/MOOCs:** Manages library resources and promotes online learning.
- **Training and Placements Cell:** Facilitates student placements and industry connections.

These committees and cells demonstrate TKREC's commitment to governance, student welfare, quality assurance, and a comprehensive approach to education. They ensure a balanced focus on academic excellence, student support, and industry relevance.

## **Concluding Remarks :**

Teegala Krishna Reddy Engineering College (TKREC) stands out as a forward-thinking institution dedicated to providing high-quality engineering education with a comprehensive approach to student development. With a robust framework encompassing a Board of Governors, Academic Council, Board of Studies, Finance Committee, and various other specialized committees, the college demonstrates a commitment to effective governance and strategic planning. This structure ensures that TKREC continually adapts to the evolving educational landscape and aligns with industry trends.

The college's focus on curricular planning, teaching-learning processes, and outcome-based education aligns with the objectives of the National Education Policy (NEP) 2020. The integration of online learning platforms, multidisciplinary curricula, and industry collaborations reflects TKREC's commitment to preparing students for success in a dynamic world.

TKREC's emphasis on student support, progression, and holistic development is evident in its extensive range of student services, sports facilities, and extracurricular opportunities. The college's efforts to promote

engineering awareness among school students, along with its commitment to creating a vibrant sports culture, showcase its dedication to nurturing well-rounded individuals.

Moreover, TKREC's Research, Innovations, and Extension activities, supported by its Industry-Industry Cell (IIC) and Entrepreneurship Development Cell (EDC), indicate a strong focus on research and innovation. The college's collaborations with industry partners and encouragement of student entrepreneurship further enhance its relevance and contribution to the broader community.

Through its comprehensive infrastructure and learning resources, including state-of-the-art facilities, a well-equipped library, and advanced IT infrastructure, TKREC provides an enriching environment for both academic and personal growth. The college's commitment to maintaining and improving these facilities underscores its dedication to student success and institutional excellence.

Overall, TKREC's balanced approach, combining academic rigor, student support, research, industry connections, and community engagement, positions it as a leading institution in engineering education. The college's focus on quality assurance, continuous improvement, and stakeholder satisfaction ensures that it remains at the forefront of educational excellence, providing a strong foundation for students' successful careers and lifelong learning.