



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

GOKULA KRISHNA COLLEGE OF ENGINEERING

**GOKULA KRISHNA COLLEGE OF ENGINEERING BEHIND RTC DEPOT
SULLURPET-524121**

524121

www.gkcesp.com

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

August 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Gokula Krishna College of Engineering (GKCE), Sullurupeta, A.P., was established in the year 2001 under the able leadership of three visionaries Sri Brahmaiah garu, Sri Srinivasa Baba garu and Sri Kondaiah garu is known for its excellence in Technical Education and associated Research.

GKCE has highly qualified, dedicated and enthusiastic faculty who are committed to create a congenial student friendly environment that facilitates interaction with and among students leading to a better understanding of subject studied. GKCE is an institutional member of Indian Society for Technical Education (ISTE).

GKCE is the first Education Institute in the SPSR Nellore district which was awarded the ISO 9001:2000 certificate by JAS-ANZ of Australia and New Zealand in the year 2003. GKCE established Jawahar Knowledge Center (JKC Star) in co-ordination and support from Institute of Electronic Governance (IEG), Government of Andhra Pradesh.

GKCE is located in Sullurupeta, SPSR Nellore District, Andhra Pradesh. It is just 20km away from the India's Space Port, SDSC SHAR, Sriharikota. ISRO Scientists frequently give guest lecturers in GKCE, for the benefit of GKCEians.

Vision

We at Gokula Krishna College of Engineering will impart futuristic technical education and instill high patterns of discipline through our dedicated staff who shall set global standards, making our students technologically superior and ethically strong who in turn shall improve the quality of life of the human race.

Mission

Our mission is to educate students from all over the state even country including those from the local and rural areas so that they become enlightened individuals improving the living standards of their families, industry and society. We will provide individual attention world class quality of education and character building.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. College is located in the pool of Industries like space industry of India ISRO's SDSC-SHAR, Sriharikota, Sicily-Tada which is the largest industrial park in India etc., Students of GKCE have the opportunity to be readily absorbed by the industries.

2. Clean and green campus
3. well Qualified, experienced and dedicated teaching faculty
4. Dedicated and experienced supporting and administrative staff.
5. Laboratories are with modern software tools and open source software prescribed by the university.
6. Effective use of ICT in teaching learning process.
7. Student centric functioning with mentoring, counseling through teachers and Effective academic monitoring.
8. Healthy interactive atmosphere between students and staff members.
9. Clean and hygienic Hostel facility for both boys and girls
10. Safe and Secured Environment for girl students.
11. Active NSS Unit.

Institutional Weakness

1. Canteen facility needs to be improved.
2. Research activities need to be improved and guidelines need to be strengthened to get patent rights for eligible works.
3. Alumni association to be registered.
4. Moderate Placement ratio.
5. Lack of sports activities

Institutional Opportunity

1. To establish structured entrepreneurship promotional activities on the campus through Entrepreneurship, Innovation and Start-Ups Centre (EISC) of GKCE
2. To improve accessible and affordable higher education by the proper utilization of The Andhra Pradesh State Council of Higher Education's initiations
3. To improve Training and placement activity through Andhra Pradesh state skill development corporation
4. To improve placements in core area with the collaboration of nearby industries in Sicily.

Institutional Challenge

1. More placements in core companies.
2. Encouraging students for competitive examinations and higher studies.
3. Networking and strengthening relationship with stakeholders.
4. More focus on National and international conferences

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college has a clear vision for learning, research and extension and to be an instrument of change for peace, progress and prosperity for all. The college makes every effort to realize its mission of developing competent

human resource through quality education, by creating innovative educational environment and promoting creativity to develop skilled human resource.

This institution regards the effective delivery of curriculum as the most vital curricular aspect. The college follows the curriculum prescribed by the University (JNTUA) through its Boards of Studies. The college ensures effective curriculum delivery through systematic and strategic transparent mechanism.

The College has imbibed different types of courses in the curriculum as prescribed by the University, which enhance professional ethics, human values, environment and sustainability like Universal Human Values, Human values professional ethics, Constitution of India, Environmental Science etc., thereby leading to the holistic development of students.

The courses on Ethics, Human Values, Human Resources & Organizational Behaviour and Community Outreach (HVCO) through NSS, Environmental Studies are embedded in the curriculum of all programmes. International Women's Day (IWD) is celebrated every year in the college campus where the events such as Quiz, Ethnic wear, Role-Play and Elocution Competitions on Women Empowerment and Great Women Personalities are conducted. Women personal from different profession (Judiciaries, Doctors, Civil servants etc.,) are invited as chief guest and students are allowed to interact with them to motivate and empower the students. IN view of social development activities like working in NGOs, organizing blood donation camps, health check-up camps, hygiene and health workshops, environment awareness camps etc are being organized by the NSS team of the college. The college has a magnificent past and efforts are being made for its bright future, therefore every action is carefully planned, so as to foster the composite cultural heritage of the region.

Teaching-learning and Evaluation

The most important thing in teaching learning process of this institute is ability of its teachers to create enthusiasm, ignite passion and generate curiosity among the students. The teachers are deputed off and on to participate in conferences, seminars and symposia, orientation and refresher courses to boost their teaching skills and make their teaching more innovative and effective.

The institute put effort to enhance the learning experiences through a paradigm shift from the traditional teacher-cantered learning to student-cantered learning. In addition to the traditional teaching-learning methods, the institute is providing innovative student centric methods such as Quiz(1), Seminars (2) , Workshops (3) , Symposiums (4), Role play (5), Video (6), Demonstration(7), Guest lecture (8), Group Discussions (9), MOOCs (10), PPT(11), Open book test(12), Proto-type model (13), Cross words and puzzles (14), Viva (15), Poster presentation(16), Public Speaking(17), Industrial visits(18) to encourage Participative, Problem solving and Experiential learning. in all activities students are encouraged to use ICT Tools like Google-forms, PPTs, MS office, whatsApp etc., for their preparation and presentation.

A transparent, time-bound and efficient method is being followed in GKCE in terms of dealing with internal examination related grievances. Starting of every semester all faculty members described the evaluation process of internal marks and external marks. **Outcome-Based Education (OBE) model is being adopted in this Institution where the Internal Quality Assurance Cell (IQAC) guide and monitor the implementation of OBE in the college. the Quality assurance and improvement process is about determining whether the set educational objectives meet a general standard of quality. Course Outcomes are the statements indicating knowledge and skills the student is expected to acquire at the end of a course.**

In strict compliance with the objectives of Outcome Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the concerned program after rigorous consultation with all faculty and the stakeholders.

Research, Innovations and Extension

GKCE with its vibrant research focus and technical expertise has constantly been on a growth trajectory. The sole objective of the student Innovation and Incubation Centre (SIIC) of GKCE is to facilitate students to convert their Ideas into Technological Innovations. Students are provided facilities to build prototypes useful for promotion of Agriculture and Rural Development. Necessary support is provided for Documentation, Publication of Research

Two projects (“Energy Harvesting in Speed breakers using Piezoelectric Sensors”(ECE Department) and “Wind Chill Refrigeration with Evaporative Cooler”-(Mechanical Department)) of Gokula Krishna College of Engineering, Sullurpet have been sanctioned the total fund of Rs. 81500/- by the Andhra Pradesh State Council of Science & Technology- Vijayawada.

The Entrepreneurship, Innovation and Start-Ups Centre (EISC) aims to ignite creative thinking and nurture entrepreneurial instincts in students. The Centre’s ultimate vision is to create independent business entrepreneurs out of interested students so that they not only become self-employed but also become capable of providing gainful, fulfilling employment to others and thereby benefit the society at large. The Centre aims at effective, frequent and mutually beneficial interactions with Industry and establishing and exploring links with all kinds of organizations for the development of the Centre. It also aims at providing a professional, specialist approach committed to offer students with the most suitable HR solutions and enhance their career opportunities.

GKCE organizes a number of extension activities to promote institute-neighbourhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. As per JNTUA R19 syllabus the students do Socially Relevant Projects in every semester which makes the students socially responsible. Every year, under NSS blood donation camps are organized in the campus of GKCE. During pandemic period mega vaccination camps were conducted to make all students vaccinated and lead to healthy life. Regularly our college students are participating in election campaign work. NSS unit of GKCE organized an awareness program regarding Voter enrolment with the help of Sullurupeta Municipal Authorities on 7-10-2021. Students were made aware that user can avail and access the Electoral list, apply for Voter ID, track status of application on this portal. They were motivated to register and urged to pass this knowledge among their friends and relatives.

Infrastructure and Learning Resources

GKCE has a clear cut policy for improving the infrastructural facilities which would facilitate teaching learning processes. GKCE is keen on the quality of teaching, learning and research, and ensures it through adequate infrastructure and physical facilities.

GKCE Library System consists of a Central Library and 4 other departmental libraries that collectively support the teaching, research and extension programme of our institute. All our students, faculty members, and employees are entitled to avail the facilities of the Central Library, after enrolling themselves for a

membership.

The library is fully automated with Integrated Library Management Software (ILMS) i.e. AutoLib (version 5.1) Software designed and developed by AutoLib Software Systems, Chennai. Through the software, the library provides various services and facilities like OPAC, (Multiple Searching), circulation, stock verification and preparation of various reports.

“Knimbus e-library Access Credentials platform - JNTUA Consortium” containing e-Journals, e-Books, Research Articles, Subject Videos and NPTEL Courses e- collections for various subjects is available in our college website “jntuaengg.knimbus.com”. All students can login remotely and access the e-content using their credentials.

Wi-Fi connectivity is available to all faculty and students. All the departments of the college are provided with computers and other related accessories. All teaching staff member use the ICT in the classrooms and laboratories, whenever needed. Most of the official work is being done with the help of ICT. The college regularly maintains the IT facilities.

Student Support and Progression

Once admitted in the college, the students are taken care of by providing various facilities in the form of indoor and outdoor sports facilities, encouragement for participation in co-curricular activities. Deserving students are provided with financial assistance from the State Govt. and Central Govt. sponsored scholarship schemes. More than 65% of admitted students have been sanctioned through various schemes to support education of poor students in the past 5 years.

Capacity building and skills enhancement initiatives taken by the institution include soft skills

Language and communication skills, Life skills (Yoga, physical fitness, health and hygiene) and ICT/computing skills

GKCE connect is an Alumni Association. College has taken initiatives to register the association legally. Alumni of GKCE give inputs to aspiring graduates. They are invited as resource persons at various events, guest lectures, webinars and panel discussions. They provide inputs and share their experiences regarding skills, recent technologies & trends in corporate world, application of knowledge and corporate working culture. Some of our Alumni have established startups in different sectors, many of them are first generation entrepreneurs. They decided to become entrepreneurs during their academic span at GKCE. Through the journey as an entrepreneur they learnt various skills & knowledge. They enlighten the students with their success stories and challenges faced

GKCE has a tradition of inviting alumni for Annual Alumni Meet “GKCE-connect” , In this meet the alumni get chance to reconnect with the Alma mater and old friends. This is the best platform for networking and sharing new trends and current happenings in the corporate world. These inputs are helpful to academicians for moulding the aspiring students.

Governance, Leadership and Management

At GKCE, Principal is the head of the institution who sets internal policies and programs of the college with the association of Heads/coordinators of various departments, conveners of different committees, librarian, hostel superintendents and senior member of non-teaching staff.

The institution has a Perspective/Strategic Plan in place to help it develop in a systematic, well-thought-out and phased manner. Besides, teachers are members and conveners of the various committees that are instituted for the day-to-day functioning of the college. Some of these committees are the Academic Committee, Anti ragging Committee, Feedback committee, Women Grievance cell etc., Additionally, teachers discharge an energetically pervasive role as motivators and spearheads of cultural and socially conscious activities in the institution by steering the NSS unit.

The institution effectively implements the welfare schemes for the teaching and Nonteaching faculties. The College makes arrangements for availing Maternity Leave, Medical leave, Permission to attend FDPs etc. for the career development and progression of the teaching as well as non-teaching staff. Subsidized Staff quarters are provided for the teaching and non-teaching staff

GKCE is known for its integrity and it maintains a transparent and accountable financial management system. Governing body of GKCE decides various quality enhancement activities with its ability to mobilize resources from different sources for new programmes, research, extension, infrastructure, student's welfare, and staff career advancements. The College mobilizes funds as per the policy and procedure enacted by the Management. The process is monitored by the finance committee under the chairmanship of the Principal.

The Internal Quality Assurance Cell at GKCE was constituted on 23rd March 2022

The Institute IQAC prepares, evaluates and recommends the following for approval by the relevant Institute and Govt. statutory authorities- Annual Quality Assurance Report (AQAR), Self-Study Reports of various accreditation bodies (NAAC), Performance Based Appraisal System, Stakeholder's feedback and action Taken Reports.

Institutional Values and Best Practices

GKCE possesses an honoured right to endorse advanced technical education, and to ensure women empowerment through gender equality. To promote women education, the Institute makes consistent efforts. The Institute organizes several training programs, seminars, workshops etc. on gender equality and sensitization. Women' grievance redressal committee of GKCE is meant to safe guard and promote wellbeing of all women employees and students of the college. The cell is responsible for looking into any complaints filed by students & staff about women grievance at college. Students are allowed to file the complaint through mobile also (online).

The college and its teacher and staff jointly celebrate the cultural and regional festivals, like Sankranti celebrations, Dhasahra celebrations, women's day, Teachers Day, orientation and farewell program, Induction program, rally, plantation, Yoga Day, etc. Motivational lectures of eminent persons of the field are arranged for all-round development of the students for their personality development and to make them responsible citizens.

GKCE strive to create a model of education that is based on compassion and mindful living. The Green Campus initiative began with an objective of fostering a culture of eco-friendly practices and making the campus environmentally sustainable. We aim to build a campus that is plastic free, produces minimal waste,

and remain clean and green. This is a collective endeavour of our students, staff and neighbouring community in an effort to recognize our place and responsibility on this planet.

GKCE is very keen in maintaining hygienic environment with the support of sanitary workers of the college. After pandemic GKCE realized the importance of sanitary workers who provide an invaluable service in maintain the campus clean and hygiene. It is decided to honour the sanitary workers since 2020.

GKCE is very fortunate for being the neighbour of the space port of India SDSC-SHAR, Sriharikota. Students of GKCE get the chance of visiting ISRO, witnessing rocket launches and interacting with the eminent scientists. Faculty of GKCE encourages the students to participate in various conferenced organized by ISRO for students community and many teams won awards by their distinctive performance.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	GOKULA KRISHNA COLLEGE OF ENGINEERING
Address	Gokula Krishna college of Engineering Behind RTC Depot Sullurpet-524121
City	Sullurpet
State	Andhra Pradesh
Pin	524121
Website	www.gkcesp.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M. Suresh	08623-294255	8179974369	08623-243139	f8principal@gmail.com
IQAC / CIQA coordinator	M. Gnanapriya	08623-251909	9493031682	-	gnansagnans@gmail.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University, Anantpur	View Document

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

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	24-02-2021	12	

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Gokula Krishna college of Engineering Behind RTC Depot Sullurpet-524121	Rural	19.18	25785

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Ece	48	Intermediate	English	120	45
UG	BTech,Cse	48	Intermediate	English	120	62
UG	BTech,Mech	48	Intermediate	English	120	5
UG	BTech,Eee	48	Intermediate	English	60	0
UG	BTech,Civil	48	Intermediate	English	60	0
PG	Mtech,Ece	24	B. Tech	English	18	3
PG	Mtech,Cse	24	B. Tech	English	18	9
PG	Mtech,Mech	24	B. Tech	English	18	2
PG	Mtech,Eee	24	B. Tech	English	18	0
PG	MBA,Mba	24	Three year Degree	English	120	69

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	7				14				80			
Recruited	2	1	0	3	9	5	0	14	41	36	0	77
Yet to Recruit	4				0				3			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				65
Recruited	45	20	0	65
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				14
Recruited	10	4	0	14
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	1	0	5	2	0	0	0	0	10
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	3	4	0	41	36	0	84
UG	0	0	0	0	0	0	0	0	0	0

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

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	161	0	0	0	161
	Female	53	0	0	0	53
	Others	0	0	0	0	0
PG	Male	54	0	0	0	54
	Female	28	0	0	0	28
	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

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	38	29	27	35
	Female	20	16	10	15
	Others	0	0	0	0
ST	Male	4	0	4	1
	Female	0	1	0	0
	Others	0	0	0	0
OBC	Male	129	90	52	60
	Female	47	42	20	38
	Others	0	0	0	0
General	Male	46	27	17	21
	Female	12	18	13	17
	Others	0	0	0	0
Others	Male	0	3	2	1
	Female	0	3	0	0
	Others	0	0	0	0
Total		296	229	145	188

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	According to JNTUA Curriculum the Choice Based Credit system (CBCS) provides choice for students to select from the prescribed courses. There shall be two Open Electives and three inter-disciplinary electives which are Choice Based Credit Courses (CBCC) in IV/V semester onwards, wherein the students have to choose inter-disciplinary electives offered by various other departments. These courses can be pursued in MOOC manner or the Conventional manner. The Vision of National Education Policy, to provide high quality education to develop human resources in our nation as global citizens, is well taken by the college. Students are encouraged to participate in other department's technical symposiums and activities in
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	order to provide the holistic academic growth among students.
2. Academic bank of credits (ABC):	The institution preparedness in implementation of Academic Bank of Credits depends upon the guidelines of the affiliated university and Higher Education Department, JNTUA. For this purpose, a centralized database along with the database of the college is to be established to digitally store the academic credits earned by the student from various courses so that the credit earned by student previously could be forwarded when the student enters into the program again. For monitoring ABC, proper technical support system is to be created.
3. Skill development:	To address the skills mismatch, the Institution shall take up initiatives as envisaged in NEP-2020 towards skill development for the students. This institution is one of the registered institutions of APITA (Andhra Pradesh information technology academy) and All students are registered to avail campus training programs and campus placement programs. To bridge the urban rural divide in training and placements APITA is offering campus training program in the name of Amravati Knowledge Center by bringing synergy among the institutions of government, industry and academia. APITA provides opportunity to the trained students to participate in placement drives across organizations. APITA provides access to the industry to the pool of trained graduates for internships and placements. All students of this institution are registered in APSCHE LMS portal e-pragati in the current academic year and started learning courses from that. More than 50 students have been registered for more than 200 Microsoft internship program and started learning in the current academic year. Apart from this Laboratory experiments shall be strengthened to promote skill acquiring by the students. The Institution shall make necessary arrangement to provide skill development for college drop-outs and unemployed youth through short term courses that fetch employment to them.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	In order to integrate the local language, art and culture, compulsory activities in the curriculum have to be added like literary activities etc. and through discussions/interactions/symposiums etc. in local languages which will fetch extra credit to the student. APSCHE has initiated the “Talk the Book” program

	<p>on 23.04.2021 to motivate students to take up the habit of reading in regional language. Students of this institution are encouraged to watch the program online by publicizing the notifications in the students group. APSCHE launched the “Reading Right” App on 20.12.2021 for the students of Andhra Pradesh free of cost to furnish “Smarticles” i.e., noetic (intelligence-driven) news articles taken from newspapers/periodicals/journals written by experts at the click of a button. In order to promote /integrate the local language, art and culture, compulsory activities in the curriculum have to be added like literary activities etc. and through discussions/interactions/symposiums etc in local languages which will fetch extra credit to the student. Frequent field trips to local heritage sites/museum shall value their culture and traditions</p>
5. Focus on Outcome based education (OBE):	<p>Outcome-Based Education (OBE) model is being adopted in this Institution where the Internal Quality Assurance Cell (IQAC) guide and monitor the implementation of OBE in the college. the Quality assurance and improvement process is about determining whether the set educational objectives meet a general standard of quality. Course Outcomes are the statements indicating knowledge and skills the student is expected to acquire at the end of a course. Program outcomes represent the knowledge, skills and attitudes the students should have at the end of program. Program outcomes can be directly measured through course outcomes. The outcome-based education model is based on defining various parameters called as Graduates Attributes (POs).</p>
6. Distance education/online education:	<p>This institution is already prepared, especially during COVID-19 pandemic situations and teaching learning process through different online modes like Google class room, Zoom platform, WhatsApp etc. The whole college campus is Wi-Fi enabled with digitally interactive panels installed in classrooms and hence no hindrance /obstacle in online education. Even slight relaxation in COVID-19 pandemic situation and accordingly visit of students and faculty members to college from different distant areas, helping them to study e-content for all subjects in all semesters. This institution is preparing to make available in the college website, all such type of e-content material prepared by faculty members to all students through online mode to meet the future</p>

challenges.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
645	638	623	726	748

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

2 Teachers

2.1

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

Response: 154

2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
82	44	48	89	64

3 Institution

3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
1	117.54	88.74	137.36	133.94

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

This institution regards the effective delivery of curriculum as the most vital curricular aspect. The college follows the curriculum prescribed by the University (JNTUA) through its Boards of Studies. The college ensures effective curriculum delivery through systematic and strategic transparent mechanism:

- The college follows the Academic calendar issued by the University and executes it rigorously. Students can download the academic calendars from College website.
- The Heads of Departments conducts the meetings to distribute workload, allot subjects, plan the activities of the department and to review the completed syllabus.
- The Principal monitors the effective implementation of the Calendar through formal meetings with Heads of Departments and if necessary informal discussions with faculty.
- Each Department constitutes the Time Table committee which prepares the Time tables of the particular academic year.
- The Time Tables are displayed on the Notice Board and also uploaded on the college website.
- The syllabus link of university is also provided to the students.
- Lesson plan is prepared by every faculty member at the beginning of semester.
- Mid exams are conducted as per the schedule given by the University and its evaluation results are displayed and discussed with the students in the class room.
- Intra-departmental meetings for the review of the teaching, planning of unit tests, seminars etc. are conducted
- Periodic assessment of curriculum delivery is conducted by IQAC through HODs.
- Assignments, seminars and projects are assigned to the students under the supervision of the faculty.
- Guest lectures of eminent faculty members from other institutions are arranged to give exposure of the current trends and the latest subject knowledge.
- Remedial coaching is given to slow learners The advanced learners are encouraged for further progression in career by participating in various co-curricular activities and career oriented programs.
- ICT is used for effective teaching by the teachers of all departments.
- Methods like seminar, group discussion, quiz, case study are practiced for the effective delivery of curriculum.
- Study materials, notes and question banks are provided in the class and through Whatsapp group.
- Educational field visits, industrial visits, tours are organized.
- Social sites such as YOUTUBE, WhatsApp etc. are used for effective teaching.
- Guest lectures, webinars and guidance by departmental Alumni are engaged.
- Students-Teacher -Guardian Scheme (Mentor-Mentee) is implemented for identifying problems of the students regarding academic, social and financial issues.
- The college collects the feedback from the faculty, students, alumni and employers online (link is

displayed in the college website). The collected feedback is analyzed using different parameters and the performance of the students, faculty and institution is assessed. Any discrepancies identified are considered for correction and suggestions are taken for improvement.

File Description	Document
Upload Additional information	View Document

1.2 Academic Flexibility

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

Response: 13

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

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

Response: 9.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
217	94	0	0	0

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

1.3 Curriculum Enrichment

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

Response:

The College has imbibed different types of courses in the curriculum as prescribed by the University, which enhance professional ethics, human values, environment and sustainability like Universal Human Values, Human values professional ethics, Constitution of India, Environmental Science etc., thereby leading to the holistic development of students.

The courses on Ethics, Human Values, Human Resources & Organizational Behaviour and Community Outreach (HVCO) through NSS and NCC, Environmental Studies are embedded in the curriculum of all programmes.

1. Gender Sensitivity

College strongly believes that women are equally important in society as men are, they are the back bone for progressing the nation. The women redressal committee is established in the starting of every academic year with the main objective of creating an effective organizational structure for improving the status of women in the institution. Complaints/issues are received from Girl students and lady faculty of this institution and the committee resolves all the issues by conducting enquiries. Students and faculty are allowed to file their complaints online. The phone numbers of the women's redressal committee members and the link for the complaint are displayed in the campus as well as in the website.

International Women's Day (IWD) is celebrated every year in the college campus where the events such as Quiz, Ethnic wear, Role-Play and Elocution Competitions on Women Empowerment and Great Women Personalities are conducted. Women personal from different profession (Judiciaries, Doctors, Civil servants etc.,) are invited as chief guest and students are allowed to interact with them to motivate and empower the students.

2. Human Values and Professional Ethics

A course of one credit on human values "Universal Human values" is offered as Mandatory Subject / open elective to all the students to take at least once during the programme of study. IN view of social development activities like working in NGOs, organizing blood donation camps, health check-up camps, hygiene and health workshops, environment awareness camps etc are being organized by the NSS team of the college.

3. Environment studies

A mandatory course "Environmental science" is included in all UG programs. In order to sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures, industry visits and field excursions were organized for students of all programs. Environment Day, Earth Day, Water Day are celebrated every year, where students actively participate. Workshops and seminars on various aspects of environment sustainability are organized periodically.

File Description	Document
Upload Additional information	View Document

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

Response: 5.43

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

Response: 35

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

1.4 Feedback System

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

Response: No

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 26.04

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
194	187	109	149	236

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
612	612	672	732	732

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

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

Response: 54.45

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

2021-22	2020-21	2019-20	2018-19	2017-18
238	184	115	150	213

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

2021-22	2020-21	2019-20	2018-19	2017-18
312	312	343	343	343

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

2.2 Student Teacher Ratio

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

Response: 7.87

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

The institute makes effort to enhance the learning experiences through a paradigm shift from the traditional teacher-centered learning to student-centered learning. In addition to the traditional teaching-learning methods, the institute is providing innovative student centric methods such as Quiz(1), Seminars (2), Workshops (3), Symposiums (4), Role play (5), Video (6), Demonstration(7), Guest lecture (8), Group Discussions (9), MOOCs (10), PPT(11), Open book test(12), Proto-type model (13), Cross words and puzzles (14), Viva (15), Poster presentation(16), Public Speaking(17), Industrial visits(18) to encourage Participative, Problem solving and Experiential learning. In all activities students are encouraged to use ICT Tools like Google-forms, PPTs, MS office, whatsapp etc., for their preparation and presentation.

Experiential Learning

Project Work: Project work/ Project based learning is introduced to students ranging from critical thinking to project management and teamwork leading to self confidence. This also helps in teacher-student interaction as it is a learning by doing approach. Students undergo both mini project and major project

Participation in District level and National Competitions: For Real time exposure students are encouraged to participate at National and International Level. This helps in a holistic development of our students.

Industrial Visits: Industry Visits are arranged for the students to get exposure to the realistic industry practices and regulations thus helping in broadening the outlook with exposure to different work forces from different industries.

Guest Lectures: Guest lecture by eminent experts from industry and academics are organised to supplement the teaching process and provide experiential learning.

Participative Learning

Role Plays: Teachers adopt role play method especially in management and English courses to supplement teaching by way of participative learning. Even in Technical subjects also Teachers try to use this role play technique to make students to understand the concepts deeply.

Teamwork: The Institute organizes students' activities to promote the spirit of Teamwork. The activities through NSS, institutional social responsibility through Tree plantation, Swatchh Bharat, Blood Donation and Health awareness camp helps the students to learn Art of living in a team for Social and community welfare. Team projects have been included so that students can share their ideas among themselves and learn to collaborate and communicate with one another.

Problem Solving Methodology

Symposiums: Quiz and other competitions organized in the symposiums are mostly based on the Aptitude and reasoning to improve the problem-solving capacity of students.

Aptitude Training: Soft skill and Aptitude training is provided in the institution in collaboration with APITA to make student strong in problem solving.

Discussions: The Institute follows the group discussions methods in many of the subjects as it makes the students to think wide and participate in coming up with the opinions, suggestions and make decisions.

All students have access to 2 well equipped computer labs for enhancing learning experiences using ICT tools

- **Computer LAB-1 & LAB-2 are equipped with 60 Personal Computers (i3-4th Gen. CPU,320GB HDD/4GB RAM) installed with ICT Tools, 20 Web Cameras and 20 headsets.**
- **3 leased line Internet connections of 200Mbps speed to have uninterrupted Internet services.**

File Description	Document
Upload Additional information	View Document

2.4 Teacher Profile and Quality

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

Response: 118.48

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

2021-22	2020-21	2019-20	2018-19	2017-18
51	53	51	61	60

File Description	Document
Upload supporting document	View Document

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

Response: 4.89

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

2021-22	2020-21	2019-20	2018-19	2017-18
8	2	2	2	2

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

2.5 Evaluation Process and Reforms

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

Response:

A transparent, time-bound and efficient method is being followed in GKCE in terms of dealing with internal examination related grievances. Starting of every semester all faculty members described the evaluation process of internal marks and external marks. Internal examination test schedules are prepared and communicated to student in advance. For proper conduction of test two invigilators are assigned in room and evaluation of answer sheet is done by concern subject faculty member with in three working days.

Various internal examinations are being performed throughout the semester as per the guidelines given by JNTUA. They are mid exam 1 & 2, assignments, day to day performance of lab experiments, project evaluations, etc.

Mid exam 1 & 2:

For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks of which 10 marks for objective paper (20 minutes duration), 15 marks for subjective paper (90 minutes duration) and 5 marks for assignment. Objective paper shall be set for maximum of 20 bits for 10 marks. Subjective paper shall contain 3 either or type questions (totally six questions from 1 to 6) of which student has to answer one from each either or type question. Each question carries 5 marks. Final mid semester marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the better mid exam and 20% to the other. Internal examination grievances are cleared by showing the corrected answer sheet to students.

Practical exams:

For practical courses, there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the laboratory shall be evaluated for 30 marks by the concerned laboratory teacher based on the regularity/record/viva/mid semester test

Technical Seminar:

There shall be a seminar presentation in IV year II Semester. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his understanding over the topic, and submit to the department before presentation. The report and the presentation shall be evaluated by the Departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar shall be evaluated for 100 marks.

Project work:

Out of a total of 200 marks for the project work, 60 marks shall be for Internal Evaluation and 140 marks for the End Semester Examination (Viva-voce). Minimum 4 Project reviews are conducted to offer internal marks where the review committee would comprise of HOD, senior faculty and project guide.

Assignment: The assignment shall contain numerical problems/software development. There shall be at least four assignments (2 assignments per each mid examination) in a semester and the average marks shall be considered.

Detained list is prepared well in advance with a common criteria, if any grievance is observed in it, is resolved for medical reasons/emergency.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

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

Response:

Outcome-Based Education (OBE) model is being adopted in this Institution where the Internal Quality Assurance Cell (IQAC) guide and monitor the implementation of OBE in the college. the Quality assurance and improvement process is about determining whether the set educational objectives meet a general standard of quality. Course Outcomes are the statements indicating knowledge and skills the student is expected to acquire at the end of a course.

In strict compliance with the objectives of Outcome Based Education (OBE), Program Specific Outcomes (PSOs) are framed by the department offering the concerned program after rigorous consultation with all faculty and the stakeholders. After attainment of consensus, the same are widely propagated and publicized through various means such as display and/or communication specified hereunder. POs and COs are followed as prescribed by the syllabus framed by the university.

- **Website**
- **Class rooms**
- **Department Notice Boards**
- **Laboratories**
- **Student Induction Programs**
- **Parent meet**
- **Faculty meetings**
- **Alumni meetings**
- **Library**

While addressing the students, the HODs create awareness on POs, PSOs and COs. The faculty members, class teachers, mentors also inform the students and create awareness and emphasize the need to attain the outcomes.

Program specific outcomes (PSOs) are the specific skill requirements and accomplishments to be fulfilled by the students at micro level and by the end of the program. The Head of the Department along with senior faculty prepare the PSOs, discuss with subject experts and approve it after endorsement by the Principal.

Program Outcomes (POs) are broad statements that describe the professional accomplishments which the program aims at, and these are to be attained by the students by the time they complete the program. POs incorporate many areas of inter-related knowledge, skills and personality traits that are to be acquired by the students during their graduation.

Course outcomes (COs) are direct statements that describe the essential and enduring disciplinary knowledge, abilities that students should possess and the depth of learning that is expected upon completion of a course. They are clearly specified in the syllabus itself and communicated to students properly by the subject teachers. The POs/PSOs of the Programme are published through electronic media at individual Department site located on the college website <http://www.gkcesp.com>. The COs of the courses are also published through electronic media at the Department site located on the college website. In all the interactions with the students, awareness on POs, PSOs and COs is consciously promoted. Attainment of Program outcomes are evaluated in the project reviews at the end of the program and attainment of course outcomes are evaluated by asking viva in the lab session.

File Description	Document
Upload Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 52.64

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

2021-22	2020-21	2019-20	2018-19	2017-18
112	117	97	118	104

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

2021-22	2020-21	2019-20	2018-19	2017-18
190	225	230	213	183

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.48

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

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 0.82

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0.815

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

3.2 Innovation Ecosystem

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

Response:

The sole objective of the student Innovation and Incubation Centre (SIIC) of GKCE is to facilitate students to convert their Ideas into Technological Innovations. Students are provided facilities to build prototypes useful for promotion of Agriculture and Rural Development. Necessary support is provided for Documentation, Publication of Research Papers.

In SIIC, students are allowed to dismantle the hard ware of previous projects and encouraged to innovate new projects. Mini project expo is being conducted every year to transfer knowledge among students community.

Students are encouraged to gain hands on experience and better Industrial Exposure. Under SIIC, The project titled “Energy Harvesting in speed breakers using piezo electric sensors” was developed by the students team and report was submitted to APCOST, Vijayawada (The Government of Andhra Pradesh established the Andhra Pradesh State Council of Science & Technology (APCOST) during the year 1986) and got sanctioned the fund of 32,500/- in the year 2018. Workshops are organized to improve the technical skills of students.

With reference to the Lr.No.APSCHE/AO/QAC/ESIC/Remainder-2/2021, An Entrepreneurship, Innovation and Start-Ups Centre has been established in Gokula Krishna College of Engineering

–Sullurpet following the guidelines provided. The Entrepreneurship, Innovation and Start-Ups Center (EISC) aims to ignite creative thinking and nurture entrepreneurial instincts in students. The Center's ultimate vision is to create independent business entrepreneurs out of interested students so that they not only become self-employed but also become capable of providing gainful, fulfilling employment to others and thereby benefit the society at large. The Center aims at effective, frequent and mutually beneficial interactions with Industry and establishing and exploring links with all kinds of organizations for the development of the Centre. It also aims at providing a professional, specialist approach committed to offer students with the most suitable HR solutions and enhance their career opportunities.

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

Response: 0

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

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

File Description

Document

Institutional data in the prescribed format

[View Document](#)

3.3 Research Publications and Awards

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

Response: 0.12

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	3	0	1	8

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

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

Response: 0.01

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

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

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

3.4 Extension Activities

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

Response:

GKCE organizes a number of extension activities to promote institute-neighborhood community to sensitize the students towards community needs. The students of our college actively participate in social service activities leading to their overall development. As per JNTUA R19 syllabus the students do Socially Relevant Projects in every semester which makes the students socially responsible. Our students mainly focus on supporting people with disabilities and tackling energy and water issues. Recently our students submit the proposal to recycle the waste water of our college.

Every year, under NSS blood donation camps are organized in the campus of GKCE. During pandemic period mega vaccination camps were conducted to make all students vaccinated and lead to healthy life. Regularly our college students are participating in election campaign work. NSS unit of GKCE organized an awareness program regarding Voter enrolment with the help of Sullurupeta Municipal Authorities on 7-10-2021. Students were made aware that user can avail and access the Electoral list, apply for Voter ID, track status of application on this portal. They were motivated to register and urged to pass this knowledge among their friends and relatives.

NSS unit of our college in collaboration with Special Enforcement Bureau (SEB) personal observed the International Day against Drug Abuse and Illicit Trafficking on 26th June 2022 in a befitting manner by organizing awareness generation campaigns, conducting elocution & Essay writing competitions, holding Seminars and conducting rallies etc. A. Rally to create awareness about the ill effects of drugs was organized to reach the masses on 25-6-2022.

Continuous voluntary activities like swatch bharath are organized by students to maintain cleanliness in and around the Campus, create awareness about the role of clean environment in human health.

All these mentioned activities have positive impact on the students and it developed student community relationship, leadership skill and self-confidence of students. It also helped in cultivating hidden personality of students and created awareness among students.

File Description	Document
Upload Additional information	View Document

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

Response:

Two projects (“Energy Harvesting in Speed breakers using Piezoelectric Sensors”(ECE Department) and “Wind Chill Refrigeration with Evaporative Cooler”-(Mechanical Department)) of Gokula Krishna College of Engineering, Sullurpet have been sanctioned the total fund of Rs. 81500/- by the Andhra Pradesh State Council of Science & Technology- Vijayawada.

- Utilization of waste energy of pressure power with vehicle locomotion is very much relevant and important for highly populated countries like India where the transportation by land is overcrowded all over. “Energy Harvesting in Speed breakers using Piezoelectric Sensors”: This project is based on the power generation through speed breakers using piezoelectric sensors. Piezoelectric materials can take mechanical stress and convert it to electrical energy. Piezoelectric Crystals(PZT) with harvester circuit (LTC3588) will be placed on speed breakers of roadways and transducers will be placed near roadside. ATMEGA328P Microcontroller is used to monitor the energy harvesting and to display the amount of energy being saved. By implementing this project, we get sufficient source of voltage to energise the street lights.
- “Wind Chill Refrigeration with Evaporative Cooler”-The nature gave the idea of architecting the design of refrigerator adapted from flora and fauna of our ecosystem to the mechanical team of GKCE. The conceptual model of food preservation unit is called wind chill refrigeration. This is the concept of wind chilled cooling from evaporation of water; the model is made up of copper tubes and acrylic boxes. The food is stored in a thermal box (thermo insulated container).
- Students team lead by Mrs. M. Gnana priya Won best innovative idea for the paper “SOLAR POWER HARVESTING IN MEDIUM EARTH ORBIT” in the National conference LAMSYS-2016 conducted by SDSC, SHAR, Sriharikota.
- Students team lead by Mrs. M. Gnana priya Won the best innovative idea for the paper “Energy

harvesting from the vibrations of Space Vehicles” in the National conference LAMSYS-2018 organized by SDSC, SHAR, Sriharikota in Satyabhama University, Chennai

- Students team lead by Mrs. Dhanalakshmi Won best innovative idea for the paper “Self-healing circuits for space applications” in the national conference LAMSYS-2018 organized by SDSC SHAR, Sriharikota in Sathyabhama university, Chennai.
- Students team lead by Mrs M. Gnana priya won the III prize in the design competition of world space week 2021 SDSC, SHAR, Sriharikota.

File Description	Document
Upload Additional information	View Document

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

Response: 31

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

2021-22	2020-21	2019-20	2018-19	2017-18
11	7	2	5	6

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

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:

Response: 4

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

GKCE is keen on the quality of teaching, learning and research, and ensures it through adequate infrastructure and physical facilities.

Classrooms and Seminar Halls

- 5 classrooms are with ICT facilities
- Two AV Halls and one seminar hall are with ICT facilities
- Fifteen LCD projectors
- One LED TV for displaying the events and academic activities of the College
- Green chalk boards in all the classrooms

Laboratories

There are Twenty one fully equipped departmental laboratories.

Electricals and Electronics Engineering Labs

- Electrical Machines Lab
- Simulation Lab
- Control System and Power Electronics Lab
- Electrical Measurements & Electrical Circuits Lab

Electronics and Communications Engineering Labs

- Microprocessor Lab
- Communication Lab
- Electronic Devices and Circuits Lab
- Digital Circuits Lab

Computer Science and Engineering Labs

- Computer Centre
- CSE Lab 1
- CSE lab 2
- Computers workshop Lab1
- Computer workshop Lab2

Mechanical Engineering Labs:

- Fluid Mechanics lab
- Engineering Drawing Lab
- Engineering Workshop1
- Engineering Workshop 2
- Machine Design lab

H&S Labs

- Physics Lab
- Chemistry Lab
- English Language Lab

Computing Facilities

- Computer LAB-1 & LAB-2 are equipped with 60 Personal Computers (i3-4th Gen. CPU, 320GB HDD/4GB RAM) installed with ICT Tools, 20 Web Cameras and 20 headsets.
- 3 leased line Internet connections of 200Mbps speed to have uninterrupted Internet services.
- Plagiarism Checker X Professional Edition Software
- Mobile App for academic information and services

Student Incubation and Innovation Centre

The sole objective of the student Innovation and Incubation Centre (SIIC) of GKCE is to facilitate students to convert their Ideas into Technological Innovations. In SIIC, students are allowed to dismantle the hardware of previous projects and encouraged to innovate new projects.

Power Backup

Geko make 30 KVA UPS system to provide backup for 30 PCs for one hour.

Library

Digital Library is equipped with 10 latest computers which provide access to e journals and e books. “Knimbus e-library Access Credentials platform - JNTUA Consortium” containing e-Journals, e-Books, Research Articles, Subject Videos and NPTEL Courses e- collections for various subjects is available in our college website “jntuaengg.knimbus.com”. All students can login remotely and access the e-content using their credentials.

The library is fully automated with Integrated Library Management Software (ILMS) i.e. AutoLib (version 5.1) Software designed and developed by AutoLib Software Systems, Chennai. The central Library has a large collection of books covering various branches of Engineering and Technology, Management, and Humanities and its related fields. The library is spread over area of 610 sq mts. The collection text of around 29578 text books, 5000 E-books, 3913 SC Book Bank text Books, 53 ST Book Bank Text Books, 1000 B.Tech/M.Tech Project reports, 82 journals, 05 Magazines and 70000 e-journals.

File Description	Document
Upload Additional information	View Document

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

Response: 1.97

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	1.44	2.04	1.60	4.34

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

4.2 Library as a Learning Resource

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

Response:

GKCE Library System consists of a Central Library and 4 other departmental libraries that collectively support the teaching, research and extension programme of our institute. All our students, faculty members, and employees are entitled to avail the facilities of the Central Library, after enrolling themselves for a membership.

The library is fully automated with Integrated Library Management Software (ILMS) i.e. AutoLib (version 5.1) Software designed and developed by AutoLib Software Systems, Chennai. Through the software, the library provides various services and facilities like OPAC, (Multiple Searching), circulation, stock verification and preparation of various reports. The users can search the library catalogue by author's name, title, subject, and other keywords. All the books, CDs, Project reports, back volumes and SC Book Bank Scheme books are accessioned with barcode stickers for automatic scan during the processes of issue and return to the library for the stake-holders.

The Central Library of the Institution has an excellent knowledge providing facility for the benefit of students, faculties and researchers. The central Library has a large collection of books covering various branches of Engineering and Technology, Management, and Humanities and its related fields. The library is spread over area of 610 sq mts. The collection text of around 29578 text books, 5000 E-books, 3913 SC

Book Bank text Books, 53 ST Book Bank Text Books, 800 B.Tech/M.Tech Project reports, 14 journals, 04 Magazines and 4545 e-journals.

Institute library is also using institutional repository, where Journals/Articles/QuestionPapers/Paperpresentations/E-Books/Thesis/Dissertations etc are made available.

“Knimbus e-library Access Credentials platform - JNTUA Consortium” containing e-Journals, e-Books, Research Articles, Subject Videos and NPTEL Courses e- collections for various subjects is available in our college website “jntuaengg.knimbus.com”. All students can login remotely and access the e-content using their credentials.

Annual expenditure for purchase of books and journals year-wise during the last five years (INRin Lakhs)

Year	2017 – 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021
INRin Lakhs	0.55554	0.68347	0.21120	0.52590	0.920

File Description	Document
Upload Additional information	View Document

4.3 IT Infrastructure

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

Response:

Institution frequently updates its IT facilities including Wi-Fi There are different digital technological facilities available in the college. There are 12- smart classrooms, 02-AV Halls and 01-digitally equipped seminar hall available in the college. The up gradation work of another laboratory (ENGLISH LANGUAGE LABORATORY) is also under construction. All students have access to well equipped computer labs for enhancing learning experiences using ICT tools

- **Computer LAB-1 & LAB-2 are equipped with 60 Personal Computers (i3-4th Gen. CPU, 320 GB HDD/4GB RAM) installed with ICT Tools, 20 Web Cameras and 20 headsets.**
- **3 leased line Internet connections of 200Mbps speed to have uninterrupted Internet services.**

Wi-Fi connectivity is available to all faculty and students. All the departments of the college are provided with computers and other related accessories. All teaching staff member use the ICT in the classrooms and

laboratories, whenever needed. Most of the official work is being done with the help of ICT. The college regularly maintains the IT facilities.

Following are some basic method followed in the institution for regular updates of IT Facilities:

- All computers are formatted at regular intervals and system software and application software are upgraded.
- Anti-virus is regularly installed in all computers.
- LCD Projectors: Upgrading of IT is seen in teaching learning process as OHPs in the institute have been intermittently replaced by LCD.

File Description	Document
Upload Additional information	View Document

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

Response: 3.23

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

Response: 200

File Description	Document
Upload supporting document	View Document

Other Upload Files	
1	View Document
2	View Document
3	View Document
4	View Document
5	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 6.52

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	5.86	6.59	16.06	2.67

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

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 60.65

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

2021-22	2020-21	2019-20	2018-19	2017-18
400	1	599	517	533

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

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

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

Response: D. 1 of the above

File Description	Document
Institutional data in the prescribed format	View Document

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

Response: 0

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

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

File Description	Document
Institutional data in the prescribed format	View Document

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

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

Response: A. All of the above

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: 5.96

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

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

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

2021-22	2020-21	2019-20	2018-19	2017-18
190	225	230	213	183

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

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

Response: 0

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

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

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

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

File Description**Document**

Institutional data in the prescribed format

[View Document](#)

5.3 Student Participation and Activities

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

Response: 0

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

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

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

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

Response: 1

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

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

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

5.4 Alumni Engagement

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

Response:

GKCE connect is an Alumni Association. college has taken initiatives to register the association legally. In every department Alumni Whatsapp Group is maintained for the proper communication between college and alumni.

The Alumni Association's Contribution through various means:-

- 1. Donation:** Contribution by donating Books and sport equipment, providing subscription of Newspapers and journals.
- 2. Alumni Interaction:** Alumni of GKCE give inputs to aspiring graduates. They are invited as resource persons at various events, guest lectures, webinars and panel discussions. They provide inputs and share their experiences regarding skills, recent technologies & trends in corporate world, application of knowledge and corporate working culture.
- 3. Placement & Career Guidance Assistance:** Alumni are working in organizations at various capacities.

They keep the faculties and the placement officer abreast about the available job opportunities. They assist and guide the students to crack the interviews. They also share their experience with the students and motivate them for their career development in various domains.

4. **Campus recruiters:** Alumni come to campus as recruiters for their companies and also recommend and promote GKCE to their employers for campus placements.

6. **Entrepreneurship Awareness:** Some of our Alumni have established startups in different sectors, many of them are first generation entrepreneurs. They decided to become entrepreneurs during their academic span at GKCE. Through the journey as an entrepreneur they learnt various skills & knowledge. They enlighten the students with their success stories and challenges faced

Alumni Meet: We at GKCE have a tradition of inviting alumni for Annual Alumni Meet “GKCE-connect”, In this meet the alumni get chance to reconnect with the Alma mater and old friends. This is the best platform for networking and sharing new trends and current happenings in the corporate world. These inputs are helpful to academicians for moulding the aspiring students.

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Principal is the head of the institution who sets internal policies and programs of the college with the association of Heads of various departments, conveners of different committees, librarian, hostel superintendents and senior member of non-teaching staff. In GKCE The governance and leadership are in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance.

1. Vision, Mission and Quality Statements:

Vision Statement

We at Gokula Krishna College of Engineering will impart futuristic technical education and instill high patterns of discipline through our dedicated staff who shall set global standards, making our students technologically superior and ethically strong who in turn shall improve the quality of life of the human race.

Mission Statement

Our mission is to educate students from all over the state even country including those from the local and rural areas so that they become enlightened individuals improving the living standards of their families, industry and society. We will provide individual attention world class quality of education and character building.

Quality Statement

We at Gokula Krishna College of Engineering aspire to establish of quality assurance which would on a continuous basis evaluate and monitor the quality of education and training imparted at this college, improve the teaching learning process and ultimately develop the institute as a centre of Excellence.

1. Nature of Governance:

The institution follows a democratic and participatory mode of governance with all stakeholders participating actively in its administration. The Governing Body delegates authority to the Secretary and Principal who, in turn share it with the different levels of functionaries in the college. The Heads of Departments, the Conveners of various committees and cells play an important role in determining the institutional policies and implementing the same.

1. Perspective/Strategic Plan

The institution has a Perspective/Strategic Plan in place to help it develop in a systematic, well-thought-out and phased manner. 1. Application for grants from government and non-government sources. 2. Extension of available area through vertical expansion to accommodate more classrooms, laboratories, auditoria, staffrooms etc. 3. Renovations to revive the ageing infrastructure of the institution. 4. Application for new Under graduate/Post Graduate Courses.

1. Participation of Teachers in Decision-Making Bodies.

Teachers discharge an important role in implementing the vision and mission of the college and to that end play a proactive part in the decision-making process.

Heads of Departments enjoy considerable administrative and academic autonomy in running their disciplinary units.

Teachers influence the institutional polity through the Teachers' Council, through their representatives on the Governing Body and the Hostel Sub-Committee of the college.

Besides, teachers are members and conveners of the various committees that are instituted for the day-to-day functioning of the college. Some of these committees are the Academic Committee, Anti ragging Committee, Feedback committee, Women Grievance cell etc., Additionally, teachers discharge an energetically pervasive role as motivators and spearheads of cultural and socially conscious activities in the institution by steering the NSS unit.

6.2 Strategy Development and Deployment

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

Response:

In GKCE, the functioning of the institutional bodies is effective and efficient. The institutional perspective plan aligns with the vision and mission of the institution which are the constant driving factors for improving academic quality policies and strategies.

It is effectively deployed to focus on bringing quality improvements in the areas of:

1. Curricular Planning and Implementation
2. Teaching- Learning Processes
3. Research, Collaboration and Extension Activities
4. Academic infrastructural facilities
5. Student Support Activities and Student Progression

6. Internal Quality Assurance System

7. Institutional Values and Best Practices

8. Governance, Leadership and Management

At the beginning of the academic year, various bodies and committees that constitute the Organogram of the institution, chalk out the strategic plan of events and activities which will support the growth and development in these key areas and at the end of the year. The foundation has formed various committees at institute and department level for the effective functioning of the organization. The objectives and functions of the committees are organized according to the instructions of the head of the institution.

Institute Level Committees:

- Discipline Committee
- Anti-Ragging Committee
- Women grievance Cell
- Student Grievance cell Committee
- NSS Committee
- IQAC
- Alumni Activity Committee
- Entrepreneurship Development Cell (EDC) Committee
- Website Committee
- Examination Cell Committee
- Event Management
- Repair and Maintenance Committee
- Training for Placement
- NAAC Committee

One such broad area in which the Institutional Perspective and Strategic Plan has been successfully implemented is that of Teaching, Learning and Research. This has been achieved through the deployment of Action Plan for the following initiatives:

1. Introduction of innovative Add-on/Certificate Courses by the Add-on-Courses Committee
2. MoUs signed with Industrial sectors for training, development and placements.
3. Research Training workshops are organised for students to equip them with the latest research methodologies.
4. Symposiums and Seminars are organized by various departments to give an exposure to both faculty and students about the latest global trends in academics, industry, sciences and environment.

6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support

4.Examination**Response:** C. Any 2 of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies**6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff****Response:**

The institution effectively implements the welfare schemes for the teaching and Nonteaching faculties. The College makes arrangements for availing Maternity Leave, Medical leave, Permission to attend FDPs etc. for the career development and progression of the teaching as well as non-teaching staff. Besides the above, the following benefits are given to the teaching and non-teaching staff.

- Financial Support to the staff to attend workshops and conferences both at the national and international level
- Teaching faculty are permitted to serve as observer, external Project examiner and paper evaluator which is assigned by JNTUA or offered by other universities with on Duty
- Staff quarters are provided for the teaching and non-teaching staff
- Free accommodation is provided to the staff who stays in college hostel
- Free Transportation facility is provided to all teaching and non-teaching faculty
- PF is given to experienced lab technicians and non teaching staff
- Two sets of uniforms to the domestic staff every year
- Wi-Fi facility to the staff inside the college campus
- Staff Grievance Redressal Cell to address the issues and grievances of the
- Indoor games facility for the staff to relax and to refresh physically and mentally
- The teaching faculty who shows exemplary results in the university exams is honored with complements and certificates.
- Incentive in the form of salary hike for the staff who are successfully completing their PhD degree
- Group accident insurance policy has been initiated to all employees of GKCE

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:** 0**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

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

File Description	Document
Institutional data in the prescribed format	View Document

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

Response: 7.65

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

2021-22	2020-21	2019-20	2018-19	2017-18
15	7	3	0	0

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

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

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

6.4 Financial Management and Resource Mobilization

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

Response:

GKCE is known for its integrity and it maintains a transparent and accountable financial management system. Governing body of GKCE decides various quality enhancement activities with its ability to mobilize resources from different sources for new programmes, research, extension, infrastructure, student's welfare, and staff career advancements. The College mobilizes funds as per the policy and procedure enacted by the Management. The process is monitored by the finance committee under the chairmanship of the Principal.

The College receives funds from the following sources:

- Management Grants from the Gokula Krishna Educational Society
- Fees collected from the students of both counseling and self-financed streams
- Project funds received from funding agencies such as APCOST, Vijayawada
- Contribution made by the alumni and well-wishers
- Government Scholarships
- Renting of the College infrastructure for conducting Government Exams and other exams

Utilization of Resources

GKCE effectively utilizes the funds in the following ways:

- Disbursal of staff salary
- Infrastructure augmentation such as construction and renovation of classrooms, RO water plants, plantation of trees, laying of paver blocks, roads.
- Hostel maintenance
- Library resources
- ICT improvement
- Software and equipment purchase
- Organizing Seminars, Guest lectures, conferences, workshops, training programmes
- Career development programmes, faculty empowerment programmes to staff
- Sports and cultural events
- Observing the days of national significance
- Organizing health camps

6.5 Internal Quality Assurance System

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

Response:

The Internal Quality Assurance Cell at GKCE was constituted on 23rd March 2022 to achieve the following objectives:

- To develop and progress a heightened level of clarity and focus in institutional functioning towards

creation, sustenance and enhancement of quality and facilitate internalization of the quality culture permeating every sphere of the Institution.

- To facilitate the integration of the various activities of the institution and institutionalize the best practices.
- To provide a sound basis for decision making imbibing all the dimensions of service quality to improve institutional functioning.
- To act as a change agent in the Institution.
- To coordinate and improve internal communication to facilitate greater policy implementation and quality assurance towards its stakeholders.

The Institute IQAC prepares, evaluates and recommends the following for approval by the relevant Institute and Govt. statutory authorities:

- (a) Annual Quality Assurance Report (AQAR)
- (b) Self-Study Reports of various accreditation bodies (NAAC)
- (c) Performance Based Appraisal System
- (d) Stakeholder's feedback
- (e) Action Taken Reports

Three examples of practices institutionalized as a result of IQAC initiatives are as follow

- General Guidelines are framed to question paper setter. Guidelines for layout and Marking schemes are defined. Checklist for reviser for evaluating the test items in the assembled paper has been prepared and started using it for II B. Tech II Sem. mid exams of the academic year 2021-22.
- Auditing ICT facilities and infrastructure for online teaching (To meet out any pandemic situation like Covid-19 4th wave)
- Stake holder's feedback have been taken online through college website , analysis have been done and action taken report has been prepared to improve the teaching learning process.

6.5.2 Quality assurance initiatives of the institution include:

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

Response: B. Any 3 of the above

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

GKCE possesses an honoured right to endorse advanced technical education, and to ensure women empowerment through gender equality. To promote women education, the Institute makes consistent efforts.

The Institute organizes several training programs, seminars, workshops etc. on gender equality and sensitization. Recently Mahila police group interacted with girls' community of GKCE to bring awareness about the Disha app suggested by the Andhra Government in the first week of October 2021. Women' grievance redressal committee of GKCE is meant to safe guard and promote wellbeing of all women employees and students of the college. The cell is responsible for looking into any complaints filed by students & staff about women grievance at college. Students are allowed to file the complaint through mobile also(online).

Objectives of Women' grievance redressal committee of GKCE:

Women grievance redressal cell is a growing community of women in GKCE which share a common purpose to learn, educate and collaborate on ideas that have the power to effect meaningful and positive change while fighting the challenges they face.

- To investigate reported cases of sexual harassment of women, if any and submit its report to the disciplinary authority recommending action to be taken against the accused miscreants.
- To hold meetings regularly.
- To organise various functions acquainting the women regarding their rights.
- To equip the female students, faculty and staff members with knowledge of their legal rights.
- To safe guard the rights of female students, faculty and staff members.
- To provide a platform for listening to complaints & redressal of grievance.
- To incorporate hygiene habits and ensure a healthy atmosphere in and around college.

International Women's Day is also celebrated every year and women celebrity are invited to address the girl students. In 2021, Smt. Shaik Faizunnisa. B.Sc, LLM (Constitutional & administrative law), Additional judicial Magistrate of first class court, Sullurupeta inspired the students with her speech and interacted with women faculty and studnets to create awarness about the rights of a girl child and a women rights in the society.

The Institute has also ensured gender equality in representation of women in all top positions. The IQAC, CSE Department, NSS are all headed by women.

7.1.2 The Institution has facilities and initiatives for

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

Response: B. 3 of the above

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

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

Response: D. Any 1 of the above

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

To build a nation of youth who are noble in their attitude and morally responsible, the college organizes and conducted several activities to build and promote an environment for ethical, cultural, and spiritual values among the students and staff. To develop the emotional and religious feelings among the students and the faculty, commemorative days are celebrated on the campus with the initiative and support of the management for not only recreation and amusement but also to generate the feeling of oneness and social harmony.

The college and its teacher and staff jointly celebrate the cultural and regional festivals, like Sankranti celebrations, Dhasahra celebrations, women's day, Teachers Day, orientation and farewell program, Induction program, rally, plantation, Yoga Day, etc. Motivational lectures of eminent persons of the field are arranged for all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration.

GKCE in collaboration with Special Enforcement Bureau (SEB) personal observed the International Day against Drug Abuse and Illicit Trafficking on 26th June 2022 in a befitting manner by organizing awareness generation campaigns, conducting elocution & Essay writing competitions, holding Seminars and conducting rallies etc. to strengthen action and cooperation in achieving a world free of drug abuse.

In R19 syllabus of JNTUA, mandatory course Constitution of India makes the students to learn about their fundamental rights, duties and responsibilities. Students of current semester have visited the

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

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

Response:

1. Title of the Practice: “GKCE-Clean and Green campus”: Towards Building a Ecological and Hygienic College Campus

a. Objectives of the Practice

At GKCE, we strive to create a model of education that is based on compassion and mindful living. The Green Campus initiative began with an objective of fostering a culture of eco-friendly practices and making the campus environmentally sustainable. We aim to build a campus that is plastic free, produces minimal waste, and remain clean and green. This is a collective endeavour of our students, staff and neighbouring community in an effort to recognize our place and responsibility on this planet.

b. The Practice

- Cutting trees on campus is strictly prohibited; GKCE plants new trees each year and maintains the green environment.
 - The campus is single-use plastic free. Steel crockery is used in the canteen.
 - Environment-friendly, energy-saving electrical appliances that reduce wasteful inefficiencies have been installed. The electrical wiring is protected against leakage.
 - College uses CFL and conventional light sources with LED lighting.
 - GKCE has been appreciated by ITC Limited for partnering with WOW-Wellbeing out of wasted a nationwide recycling initiative of ITC and contributing 5290 Kgs of dry recyclable waste for recycling during 2021-22.
 - E-Waste Awareness and Collection campaigns have been organized.

2. Title of the Practice: “Treat Sanitary workers with respect”- Pay respect and gratitude to sanitary workers of GKCE

a. Objectives of the Practice:

Mahatma Gandhi, the father of our Nation and flagbearer of cleanliness once said, “Sanitation is more important than political independence.” GKCE is very keen in maintaining hygienic environment with the support of sanitary workers of the college. In addition to healthcare professionals, there is another group

of people at the frontlines of the global crisis caused by COVID-19. They put their lives at risk every day and play a critical role in preventing the spread of the virus, by ensuring streets, parks, public spaces, sewers, septic tanks, communities, and public toilets are kept clean and hygienic.

After pandemic GKCE realized the importance of sanitary workers who provide an invaluable service in maintain the campus clean and hygiene. It is decided to honour the sanitary workers since 2020.

b. The Practice

- **Get together is arranged and Sanitary employers are honoured with complements every year**
- **Competitions like Rangoli, Mehandi designs are conducted exclusively for sanitary employees of GKCE and prizes have been given**
- **Separate rest room is allocated for Sanitary workers**
- **Free Bus facility is provided**
- **Gloves and masks are provided to keep them away from infections**

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:

GKCE the neighbour of SDSC-SHAR, Sriharikota provides an opportunity for the rural youth, especially for the economically underprivileged students from villages.

Gokula Krishna College of Engineering is located at Sullurupeta which is a Mandal in Tirupati District of Andhra Pradesh State, India. Sullurupeta consist of 66 Villages and 20 Panchayats town. Our college has a large number of students from the surrounding villages. Most of the students are from rural areas & with poor background. With the unique vision and mission the college always function innovatively and distinctively. This institution was established in the year 2001 with the mission to educate students from all over the state even country including those from the local and rural areas so that they become enlightened individuals improving the living standards of their families, industry and society. We will provide individual attention world class quality of education and character building.

Highly qualified faculty of GKCE impart futuristic technical education and instil high patterns of discipline through which make the students technologically superior and ethically strong who in turn shall improve the quality of life of the human race. GKCE is very fortunate for being the neighbour of the space port of India SDSC-SHAR, Sriharikota. Students of GKCE get the chance of visiting ISRO, witnessing rocket launches and interacting with the eminent scientists. Every year College organizes industrial visit to SHAR for B. Tech. students by applying regularly by the coordinators of industrial visit.

GKCE uniquely get the chance of organizing ISRO events in our college campus. GKCE extends its cooperation for conducting program on 5th October as a part of world space week celebrations during 4th

to 10th october 2018. More than 3000 students from various schools and colleges of 25 villages have participated in the program organized in the campus of GKCE.

Faculty of GKCE encourages the students to participate in various conferenced organized by ISRO for students community and many teams won awards by their distinctive performance. The following are the few achievements of our college students:

- Students' team lead by Mrs. M. Gnana priya Won best innovative idea for the paper "SOLAR POWER HARVESTING IN MEDIUM EARTH ORBIT" in the National conference LAMSYS-2016 conducted by SDSC, SHAR, Sriharikota.
- Students' team lead by Mrs. Sudha received II Prize in the world space week organized by ISRO in the paper presentation competition in 2018.
- Students' team lead by Mrs. M. Gnana priya Won the best innovative idea for the paper "Energy harvesting from the vibrations of Space Vehicles" in the National conference LAMSYS-2018 organized by SDSC, SHAR, Sriharikota in Satyabhama University, Chennai
- Students' team lead by Mrs. Dhanalakshmi Won best innovative idea for the paper "Self-healing circuits for space applications" in the national conference LAMSYS-2018 organized by SDSC SHAR, Sriharikota in Sathyabhama university, Chennai.
- Students' team lead by Mrs M. Gnana priya won the III prize in the design competition of world space weak 2021 SDSC, SHAR, Sriharikota.

GKCE has a vision of making its own satellite GKCESAT and the separate research team are in the process of seeking permission from iSRO.

5. CONCLUSION

Additional Information :

With the reference of **Guidelines given by JNTUA Dated 30.04.2020** the proposal dedicated by YOUNIFY Online campus Radio Network as a solution to tackle COVID-19 isolation for students during the on-going lockdown was accepted and started the Online GKCE Campus radio. More than 50 Students have undergone online training in various Categories. They include RJ training, Audio editing, Podcast etc., the launch of GKCE campus radio was tremendously organized (Link: https://www.youtube.com/watch?v=zv3Pw5W_wWM&t=2978s) online itself and start functioning from 3rd August 2020. All meetings was conducted online using zoom platform and more than 25 shows have been broadcasted through this internet radio. But after pandemic, due to hectic academic schedule the GKCE Campus radio activities have been halted. It is going to be resumed soon.

The Main Objectives of the online radio station-GKCE CAMPUS RADIO in Gokula Krishna College of Engineering, Sullurupeta are

- To add value to the education program in a Comprehensive, yet cost effective way.
- To have a new mode of content delivery, which remains available even when the students are mobile,
- To bring the leadership quality among the students.
- To broadcast Variety of educational programs, administrative notifications, cultural and entertainment programs can complement the mainstream classroom content.
- To communicate all the people who are in any way related with the college and education system such as students, faculty, staff of the college, local decision makers, policy makers, parents, guardians, students from other universities or other educational institutions.

Concluding Remarks :

With the dedicated effort, Gokula Krishna college of Engineering, Sullurupeta is evolving continuously in a span of over 20 decades and emerging into a centre of excellence in Engineering education. Building cordial partnerships with the industries in the surrounding, bolstering its wherewithal continually and evolving innovative programmes consistent with changing times, GKCE endeavours to maintain its pre-eminent position.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships Answer before DVV Verification : 80 Answer after DVV Verification: 35</p> <p>Remark : DVV has not considered one student once for a year. DVV has made the changes as per pro-rata basis of shared certificate of students by HEI.</p>																																								
1.4.1	<p>Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)</p> <p>Answer before DVV Verification : Yes Answer After DVV Verification: No Remark : Shared feedback on infrastructure and college facilities has not considered.</p>																																								
2.1.1	<p>Enrolment percentage</p> <p>2.1.1.1. Number of students admitted year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>296</td> <td>229</td> <td>145</td> <td>188</td> <td>262</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>194</td> <td>187</td> <td>109</td> <td>149</td> <td>236</td> </tr> </tbody> </table> <p>2.1.1.2. Number of sanctioned seats year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>612</td> <td>612</td> <td>672</td> <td>732</td> <td>732</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>612</td> <td>612</td> <td>672</td> <td>732</td> <td>732</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared report of first year students in 2.1</p>	2021-22	2020-21	2019-20	2018-19	2017-18	296	229	145	188	262	2021-22	2020-21	2019-20	2018-19	2017-18	194	187	109	149	236	2021-22	2020-21	2019-20	2018-19	2017-18	612	612	672	732	732	2021-22	2020-21	2019-20	2018-19	2017-18	612	612	672	732	732
2021-22	2020-21	2019-20	2018-19	2017-18																																					
296	229	145	188	262																																					
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612	612	672	732	732																																					
2021-22	2020-21	2019-20	2018-19	2017-18																																					
612	612	672	732	732																																					

4.4.1	<p>Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)</p> <p>4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 430 1046 564"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>5.86</td> <td>6.59</td> <td>16.06</td> <td>2.68</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 645 1046 779"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>5.86</td> <td>6.59</td> <td>16.06</td> <td>2.67</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared audited statement by HEI.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	0	5.86	6.59	16.06	2.68	2021-22	2020-21	2019-20	2018-19	2017-18	0	5.86	6.59	16.06	2.67
2021-22	2020-21	2019-20	2018-19	2017-18																	
0	5.86	6.59	16.06	2.68																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
0	5.86	6.59	16.06	2.67																	
5.1.1	<p>Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years</p> <p>5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 1137 1046 1272"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>275</td> <td>599</td> <td>517</td> <td>533</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 1352 1046 1487"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>1</td> <td>599</td> <td>517</td> <td>533</td> </tr> </tbody> </table> <p>Remark : Supporting scholarship letter for 2020-21 has not shared by HEI.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	400	275	599	517	533	2021-22	2020-21	2019-20	2018-19	2017-18	400	1	599	517	533
2021-22	2020-21	2019-20	2018-19	2017-18																	
400	275	599	517	533																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
400	1	599	517	533																	
5.1.2	<p>Capacity building and skills enhancement initiatives taken by the institution include the following</p> <ol style="list-style-type: none"> 1. <i>Soft skills</i> 2. <i>Language and communication skills</i> 3. <i>Life skills (Yoga, physical fitness, health and hygiene)</i> 4. <i>ICT/computing skills</i> <p>Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: D. 1 of the above Remark : DVV has select D. 1 of the above as per shared report of SL NO. 1 by HEI.</p>																				
5.3.1	<p>Number of awards/medals for outstanding performance in sports/ cultural activities at</p>																				

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

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : DVV has not considered award received in District level and Inter Engineering College.

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

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : DVV has made the changes as per shared certificates and report by HEI.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
10	22	46	0	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
15	7	3	0	0

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : DVV has counted one teacher once for a year. DVV has made the changes as per shared certificate of teachers by HEI.

7.1.3

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

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

Answer before DVV Verification : C. Any 2 of the above

Answer After DVV Verification: D. Any 1 of the above

Remark : DVV has select D. Any 1 of the above as per shared certificate of SL No. 3 by HEI.

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>44</td> <td>36</td> <td>73</td> <td>92</td> <td>31</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>82</td> <td>44</td> <td>48</td> <td>89</td> <td>64</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	44	36	73	92	31	2021-22	2020-21	2019-20	2018-19	2017-18	82	44	48	89	64
2021-22	2020-21	2019-20	2018-19	2017-18																	
44	36	73	92	31																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
82	44	48	89	64																	
2.1	<p>Expenditure excluding salary component year wise during the last five years (INR in lakhs)</p>																				

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
211	196.03	175.97	234.24	241.57

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1	117.54	88.74	137.36	133.94