

# **SELF STUDY REPORT**

**FOR**

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

**K.G. REDDY COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

CHILKUR VILLAGE, MOINABAD MANDAL, RR DIST.,

501504

[www.kgr.ac.in](http://www.kgr.ac.in)

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

### About the Institution

KG Reddy College of Engineering and Technology is a new age engineering institution and known for its commitment to offer student centric learning with quality teaching, inspiring research culture, entrepreneurship development and industrial visits.

The institute runs five undergraduate courses and one Postgraduate course as enumerated below:

#### A) Under Graduate Courses:

- 1] Computer Science and Engineering [120 seats]
- 2] Electrical and Electronics Engineering [60 seats]
- 3] Electronics and Communication Engineering [60 seats]
- 4] Civil Engineering [60 seats]
- 5] Mechanical Engineering [120 seats]

#### B) Post Graduate Courses:

- 1] Masters in Business Administration (MBA) [60]

The institution is affiliated to JNTUH and follows the university's curriculum and academic regulations.

Institution is established a decade ago in the outskirts of the Hyderabad, which is in one of the fastest growing cities across the globe. Being an Airspace city, institution is surrounded by various IT industries, medium and large-scale industries, 38 national importance laboratories and Public-Sector Units which makes it ideal for having continuous industrial visits, empowering research culture and inculcating entrepreneurial development culture.

Institution brings global education to its students by collaborating with highly reputed universities from USA and teaming up with international organizations focussed towards engineering education development.

### Vision

To become self-sustainable institution and acknowledges as a new age engineering institution by inculcating research and entrepreneurial culture among stakeholders through industrial collaboration seeking the project support and providing consultancy.

## Mission

- Interaction with industries on consultation and research.
- Engage industries to enrichment of curriculum.
- To become preferred institution in academics.
- To encourage and develop entrepreneurs to increase job market and creating economic sustainability.

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

### Institutional Strength

1. Institution is located in industrial hub of Hyderabad with close proximity of many PSUs, Industries and National importance research laboratories.
2. Institution have an efficient team of well qualified and dedicated teaching and non-teaching staff.
3. Institution have well equipped and well-maintained infrastructure, research facilities for efficient teaching, learning and research process.
4. Institution have an enriched curriculum through Value Added Courses (VAC), Research & Development (R&D) activities and use of ICT resources.
5. Innovative research facilities like EDC, TBI, R&D Cell and consultancy to enhance the entrepreneurship skill in students.
6. Institution have green and eco-friendly campus.

### Institutional Weakness

1. Institution requires funding support from government agencies and industries for incorporating research culture.
2. Institution have less collaboration with reputed international institutions and research centres.
3. Facing shortage of qualified professors in respective departments for effective guidance of research process.
4. Poor Economical viability due to the inadequate fees structure approved by the state government.

### Institutional Opportunity

1. Having an opportunity to become Autonomous Institution to customize the requirements of stakeholders.
2. New avenues of getting support in terms of research grants and technology from the funding agencies as well as industries.
3. Establishing centre of excellence in key areas like effective research, entrepreneurship development and consultancy.

### Institutional Challenge

1. Higher faculty/staff attrition rate because of better opportunities in Industries.
2. Change in government policies regarding admissions and fees structure.

3. Global economic slowdown and enhance the vision of students towards research area.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

K.G. Reddy College of Engineering and Technology implements curriculum effectively by framing academic calendar, seminars, industrial visits, guest lectures, workshops, distributing a handbook to create awareness among the students and Teaching and Non-Teaching staff about the course objectives. The curriculum structure of institution includes lesson plans, student's interactive sessions, projects, collaborative learning process and feedback. Our curriculum includes orientation, induction programs and also maintains mentor mentee ratio by 1:15. The specialty of our curriculum is, it helps the students to encourage projects based learning on real time problems from the first year onwards under the guidance of faculties and industry experts. To develop practical knowledge in students. Faculty involves in administration and academics as per the University guidelines. Teaching learning process is enhanced by collecting feedbacks from the stakeholders.

Curriculum support system is well planned as it contains College Management System (CMS) to monitor attendance, update student performance and mentor-mentee counseling information. This information will also be provided to the parents by SMS, e-Mail and by giving them login credentials of CMS.

For development of students our curriculum includes gender sensitization which involves basic dimensions of the biological, sociological, psychological and legal aspects of gender by conducting debates, group discussions and seminars. Also, Institution create awareness about ecological balance through curriculum which includes Environment Science and Disaster management courses. Institution works to develop ethical among students under a course named "Human Values and Professional Ethics" are included.

### Teaching-learning and Evaluation

Institution implements effective teaching learning practices with interactive techniques. Institution engage students in higher order training through group discussions, debates, seminars, presentations and use of ICT resources.

The admissions process of the institution is in accordance of state government norms. The recruitment of faculties is done according to the university norms. Institution identified newly admitted students as slow and advanced learners on the basis of intermediate, EAMCET/ICET and test on fundamentals score. Institution incorporates various strategies for facilitating slow learners by collaborative learning process, clarifying doubts, revising important concepts and practice problems in subjects. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences. The institution includes field trips, industrial visits and internships to get hands-on experience to acquire skills and knowledge.

Participative learning methodologies such as Think-Pair-Share, Minute Paper, OBT, JAM Session, Short quiz, Ice breaking and Ad making to ensure collaborative learning. Institution empowers innovative approaches like prototype building, innovative assessment methods, research paper publishing for developing creativity in teaching learning process.

Institution follows guidelines of JNTUH for internal evaluation and assessment procedure and also displays it on CMS portal for transparency. The procedure for internal assessment is based on academic theory, practical's and non-academic activities. The Program Assessment Committee (PAC) is responsible for preparing the academic calendar before the commencement of the semester. Attainment of program outcomes, program specific outcomes and course outcome are evaluated by the institution using Bloom's Taxonomy.

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

To imbibe research culture in Institution, Research and Development(R&D) cell arranges conference, workshops and seminars. Also, institution encourage the faculty and students to participate in conference, seminar and workshop of repute. Faculty and students are encouraged to visit research-oriented labs and industries to carry out their major projects to improve their practical skills. Institution is providing consultancy services to various industries. Also, institution has developed channel for internship, industrial training and research projects.

Institution is promoting Prime Minister Yuva Yojana and National Entrepreneur Network(NEN) program to provide a platform for young entrepreneurs' by creating Entrepreneur Development Cell (EDC) cell and Techno Business Incubator Cell (TBI) which trains students in Product Identification (PI), market research and getting technical feasibility report to build prototypes and get funding support.

Institution participates in community service activities by collaborating with local and regional communities for holistic development among students. Institution has adopted neighbourhood Chilkur village for various welfare activities such as health and hygiene awareness, community learning, Swachh Bharat, Digital India and education development.

Institution is also actively involved in Telangana Haritha Haram (plantation), National Youth Entrepreneurship Development programme, Gandhi Jayanthi and International Yoga day.

Students' of Institution are currently working on a solar operated auto rickshaw that will help the community in Chilkur village for transportation. Faculties and students visit different Panchayat locations to collect the detailed report regarding assets available in the locality through Bhuvna panchayat app.

### **Infrastructure and Learning Resources**

Institution have infrastructure that is well equipped smart classrooms, IT Laboratories, library, seminar halls and laboratories for effective learning and development process.

The Institution has domain centric laboratories as per the regulations of AICTE and JNTUH and also has virtual lab facility in association with IIT Bombay.

Institution provides active platform for online courses of NDL, SWAYAM and SPOKEN TUTORIAL. Institution have central digital library through which students can access DELNET, NPTEL videos library,

eBooks through pen-drive, book boon, OCW consortium. They can also access Open Access Journal (OAJ). To obtain a firm understanding of subject, the institution have automated library with NEWGEN software which consists of various modules on acquisition, cataloguing, serials control, and OPAC.

To increase the mental alertness and physical fitness, institution motivates the students to participate in various sport activities and provides them open playground under the guidance of well qualified physical director. Institution established Student Welfare Development which helps them to develop personality, extracurricular skills and build efficient competent behavior of students and encourages which helps them in placement process.

For effective teaching and learning, the institution provides adequate ICT facilities via Wi-Fi, LAN, 468 computers system. The Institution has maintenance team to evaluate maintenance of classrooms, library, sports and laboratories.

### **Student Support and Progression**

The Institution established platform to develop academic, personal and administrative skills in the students. Institutions have an active Student Council which empowers students to participate in various technical and non-technical events. In technical events students executed projects like Smart Chair, Budget Control System. Some of the projects got selected in various state and university level competitions. In non-technical events, students of institutions were honored by various achievements in extracurricular activities like LikhaLej won gold medal at Inter National level in Karate Open Championship and K. Venkatesh won 1st prize in National Championship Trophy, Badminton in Dubai. Institutions develop students very good in academics e.g. Mr. Zabi Khan (Registration no. 284666862) was honoured with an honorary Doctorate Degree by the World Record University of UK.

Institution have committees like Grievance and Redressal, Prevention of Sexual Harassment, Anti-Ragging, Disciplinary also constituted cell like Research & Development Cell, Entrepreneur Development Cell, Techno Based Incubator cell, Library and Women Cell, Training and Placement cell for achieving vision and mission and to maintain a balance between students demands/problems and feasibilities. Institutions have also NSS, Sports and Cultural Committee.

Institutions have an active alumni association which helps in industry interaction by organizing seminars, workshops and guest lecturers to improve technical skills and placements.

Eligible students are given scholarship from the government. Institution provides the scholarship to the meritorious students who are economically deprived. Institution takes measures for students' progression for higher studies and placements.

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

The governance of the institution has vision and mission which reflects effective leadership by inculcating research culture, consultancy and entrepreneur development through industrial participation to become self-sustainable.

The mission of institution is to engage in intensive research and entrepreneurial development by providing scholarly learning environment for faculty and students to offer career guided technical education. The institution believes in promoting research culture by publishing research papers, guest lectures, Technology based Incubation Centre, Entrepreneur Development Cell, Industrial visit and by using ICT resources.

Institution has a perspective plan developed by Principal, Deans' and HODs with the suggestion of IQAC, PAC, DAB under the guidance of Governing Body (GB). For the decentralization, institution has inspiring participative management in various professional development programs like Conferences, FDPs and accreditation task.

Institution encourages employees by appropriate appraisal/increments, leaves and FDPs, make them more productive and ensures optimal employee satisfaction. Institution have statutory financial audit by the External Audit Agency recognized by ICAI.

Institution have IQAC cell to ensure the academic, non-academic and administrative quality which strives to achieve the mission and vision statement of the institution.

### **Institutional Values and Best Practices**

The institution encompasses various social responsibilities and universal values such as Integrity, Accountability, Punctuality and Humanity with best practices like Quality and Excellence to achieve its vision of overall development of the students. To sensitize the gender equality, institution promotes gender equity programs such as "Be Bold for a Change, Leadership Development". To achieve a higher level of environmental sustainability, institution provides solid, liquid and e-waste management.

To manage with increased demand of water, rain water harvesting system enabled in the institution. This system includes rain water collection from roof tops, drip system and sprinkler. The institution maintains eco-friendly and green lifestyle by planting the trees in around the campus. Institution provides transport facility to staff and students to reduce the use of large amount of fuel which damages the environment and to maintain punctuality. To celebrate glorious heritage, culture and traditions, institution organizes and celebrates the festivals, National festivals and important days like Women's day, Teacher's day, Engineer's day etc. To Bridge the Gaps between the academics and industries, various workshops are conducted by implementation partners.

Engineering Projects in Community Service (EPICS) is one of the distinctive characteristic programs at the institution, in collaboration with Purdue University Indo Universal Collaboration for Engineering Education (IUCEE). Institution have also initiated SODHAYATRA in Chilkur village to identified problems and started to design the prototype for these problems.

The institution gives financial support to economically backward students and facilities to differently able students to achieve their dreams.

## 2. PROFILE

### 2.1 BASIC INFORMATION

| Name and Address of the College |  |
|---------------------------------|--|
| Name                            | K.G. Reddy College of Engineering and Technology |
| Address                         | Chilkur Village, Moinabad Mandal, RR Dist.,      |
| City                            | Hyderabad  |
| State                           | Telangana  |
| Pin                             | 501504   |
| Website                         | <a href="http://www.kgr.ac.in">www.kgr.ac.in</a> |

| Contacts for Communication |                                 |                         |            |             |                      |
|----------------------------|---------------------------------|-------------------------|------------|-------------|----------------------|
| Designation                | Name                            | Telephone with STD Code | Mobile     | Fax         | Email                |
| Principal                  | Ramachandra Srinivas Jahagirdar | 08417-252890            | 8978991991 | 40-66462529 | principal@kgr.ac.in  |
| IQAC Coordinator           | K. Uma Shankar                  | -                       | 7660000966 | -           | umashanker@kgr.ac.in |

| 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 |  |
|-----------------------|--|
|-----------------------|--|



|  |  |                                       |                           |                |
|--|--|---------------------------------------|---------------------------|----------------|
| Date of establishment of the college   | 23-06-2008   |                                       |                           |                |
| <b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>        |  |                                       |                           |                |
| <b>State</b>   | <b>University name</b>   | <b>Document</b>                       |                           |                |
| Telangana  | Jawaharlal Nehru Technological University                            | <a href="#">View Document</a>         |                           |                |
| <b>Details of UGC recognition</b>  |  |                                       |                           |                |
| <b>Under Section</b>   | <b>Date</b>  |                                       |                           |                |
| 2f of UGC  | 11-10-2017   |                                       |                           |                |
| 12B of UGC   | 11-10-2017   |                                       |                           |                |
| <b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b> |  |                                       |                           |                |
| <b>Statutory Regulatory Authority</b>  | <b>Recognition/Approval details Institution/Department programme</b> | <b>Day,Month and year(dd-mm-yyyy)</b> | <b>Validity in months</b> | <b>Remarks</b> |
| AICTE  | <a href="#">View Document</a>  | 30-03-2017                            | 12                        |                |

|  |     |
|--|-----|
| <b>Details of autonomy</b>   |     |
| Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges? | Yes |
| If yes, has the College applied for availing the autonomous status?  | No  |

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

| <b>Location and Area of Campus</b> |   |                  |                             |                                 |
|------------------------------------|---|------------------|-----------------------------|---------------------------------|
| <b>Campus Type</b>                 | <b>Address</b>                              | <b>Location*</b> | <b>Campus Area in Acres</b> | <b>Built up Area in sq.mts.</b> |
| Main campus area                   | Chilkur Village, Moinabad Mandal, RR Dist., | Rural            | 10                          | 14521.39                        |

## 2.2 ACADEMIC INFORMATION

| <b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b> |   |                           |                            |                              |                            |                                |
|---|---|---------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|
| <b>Programme Level</b>  | <b>Name of Programme/Course</b>                 | <b>Duration in Months</b> | <b>Entry Qualification</b> | <b>Medium of Instruction</b> | <b>Sanctioned Strength</b> | <b>No.of Students Admitted</b> |
| UG  | BTech,Civil Engineering                         | 48                        | Intermediate               | English                      | 60                         | 45                             |
| UG  | BTech,Electrical And Electronics Engineering    | 48                        | Intermediate               | English                      | 60                         | 15                             |
| UG  | BTech,Mechanical Engineering                    | 48                        | Intermediate               | English                      | 120                        | 37                             |
| UG  | BTech,Electronics And Communication Engineering | 48                        | Intermediate               | English                      | 60                         | 54                             |
| UG  | BTech,Computer Science And Engineering          | 48                        | Intermediate               | English                      | 120                        | 110                            |
| PG  | MBA,Masters In Business Administration          | 24                        | Bachelors Degree           | English                      | 60                         | 56                             |

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

| <b>Teaching Faculty</b>   |                  |        |        |       |                            |        |        |       |                            |        |        |       |
|---|------------------|--------|--------|-------|----------------------------|--------|--------|-------|----------------------------|--------|--------|-------|
|   | <b>Professor</b> |        |        |       | <b>Associate Professor</b> |        |        |       | <b>Assistant Professor</b> |        |        |       |
|   | Male             | Female | Others | Total | Male                       | Female | Others | Total | Male                       | Female | Others | Total |
| Sanctioned by the UGC /University State Government              | 2                |        |        |       | 5                          |        |        |       | 117                        |        |        |       |
| Recruited   | 2                | 0      | 0      | 2     | 4                          | 1      | 0      | 5     | 70                         | 47     | 0      | 117   |
| Yet to Recruit  | 0                |        |        |       | 0                          |        |        |       | 0                          |        |        |       |
| Sanctioned by the Management/Society or Other Authorized Bodies | 0                |        |        |       | 2                          |        |        |       | 22                         |        |        |       |
| Recruited   | 0                | 0      | 0      | 0     | 1                          | 1      | 0      | 2     | 9                          | 13     | 0      | 22    |
| Yet to Recruit  | 0                |        |        |       | 0                          |        |        |       | 0                          |        |        |       |

| <b>Non-Teaching Staff</b>                                       |             |               |               |              |
|---|-------------|---------------|---------------|--------------|
|   | <b>Male</b> | <b>Female</b> | <b>Others</b> | <b>Total</b> |
| Sanctioned by the UGC /University State Government              |             |               |               | 0            |
| Recruited   | 0           | 0             | 0             | 0            |
| Yet to Recruit  |             |               |               | 0            |
| Sanctioned by the Management/Society or Other Authorized Bodies |             |               |               | 39           |
| Recruited   | 23          | 16            | 0             | 39           |
| Yet to Recruit  |             |               |               | 0            |

| <b>Technical Staff</b>  |             |               |               |              |
|---|-------------|---------------|---------------|--------------|
|   | <b>Male</b> | <b>Female</b> | <b>Others</b> | <b>Total</b> |
| Sanctioned by the UGC /University State Government              |             |               |               | 0            |
| Recruited   | 0           | 0             | 0             | 0            |
| Yet to Recruit  |             |               |               | 0            |
| Sanctioned by the Management/Society or Other Authorized Bodies |             |               |               | 20           |
| Recruited   | 17          | 3             | 0             | 20           |
| Yet to Recruit  |             |               |               | 0            |

**Qualification Details of the Teaching Staff**

| <b>Permanent Teachers</b>    |                  |               |               |                            |               |               |                            |               |               |              |
|------------------------------|------------------|---------------|---------------|----------------------------|---------------|---------------|----------------------------|---------------|---------------|--------------|
| <b>Highest Qualification</b> | <b>Professor</b> |               |               | <b>Associate Professor</b> |               |               | <b>Assistant Professor</b> |               |               | <b>Total</b> |
|                              | <b>Male</b>      | <b>Female</b> | <b>Others</b> | <b>Male</b>                | <b>Female</b> | <b>Others</b> | <b>Male</b>                | <b>Female</b> | <b>Others</b> |              |
| D.sc/D.Litt.                 | 0                | 0             | 0             | 0                          | 0             | 0             | 0                          | 0             | 0             | 0            |
| Ph.D.                        | 2                | 0             | 0             | 5                          | 2             | 4             | 1                          | 0             | 0             | 14           |
| M.Phil.                      | 0                | 0             | 0             | 0                          | 0             | 0             | 0                          | 0             | 0             | 0            |
| PG                           | 0                | 0             | 0             | 0                          | 0             | 0             | 75                         | 59            | 0             | 134          |

| <b>Temporary Teachers</b>    |                  |        |        |                            |        |        |                            |        |        |              |
|------------------------------|------------------|--------|--------|----------------------------|--------|--------|----------------------------|--------|--------|--------------|
| <b>Highest Qualification</b> | <b>Professor</b> |        |        | <b>Associate Professor</b> |        |        | <b>Assistant Professor</b> |        |        | <b>Total</b> |
|                              | Male             | Female | Others | Male                       | Female | Others | Male                       | Female | Others |              |
| D.sc/D.Litt.                 | 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            |

| <b>Part Time Teachers</b>    |                  |        |        |                            |        |        |                            |        |        |              |
|------------------------------|------------------|--------|--------|----------------------------|--------|--------|----------------------------|--------|--------|--------------|
| <b>Highest Qualification</b> | <b>Professor</b> |        |        | <b>Associate Professor</b> |        |        | <b>Assistant Professor</b> |        |        | <b>Total</b> |
|                              | Male             | Female | Others | Male                       | Female | Others | Male                       | Female | Others |              |
| D.sc/D.Litt.                 | 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            |

| <b>Details of Visting/Guest Faculties</b>                         |             |               |               |              |
|---|-------------|---------------|---------------|--------------|
| <b>Number of Visiting/Guest Faculty engaged with the college?</b> | <b>Male</b> | <b>Female</b> | <b>Others</b> | <b>Total</b> |
|   |             | 8             | 2             | 0            |

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

| Programme |        | From the State<br>Where College<br>is Located | From Other<br>States of India | NRI Students | Foreign<br>Students | Total |
|-----------|--------|---|-------------------------------|--------------|---------------------|-------|
| UG        | Male   | 174   | 9                             | 0            | 0                   | 183   |
|           | Female | 78  | 0                             | 0            | 0                   | 78    |
|           | Others | 0   | 0                             | 0            | 0                   | 0     |
| PG        | Male   | 29  | 1                             | 0            | 0                   | 30    |
|           | Female | 25  | 1                             | 0            | 0                   | 26    |
|           | Others | 0   | 0                             | 0            | 0                   | 0     |

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

| Programme |        | Year 1 | Year 2 | Year 3 | Year 4 |
|-----------|--------|--------|--------|--------|--------|
| SC        | Male   | 16     | 12     | 24     | 83     |
|           | Female | 5      | 1      | 12     | 2      |
|           | Others | 0      | 0      | 0      | 0      |
| ST        | Male   | 4      | 9      | 32     | 12     |
|           | Female | 0      | 1      | 2      | 3      |
|           | Others | 0      | 0      | 0      | 0      |
| OBC       | Male   | 110    | 118    | 143    | 150    |
|           | Female | 43     | 30     | 31     | 26     |
|           | Others | 0      | 0      | 0      | 0      |
| General   | Male   | 94     | 116    | 131    | 99     |
|           | Female | 41     | 50     | 36     | 30     |
|           | Others | 0      | 0      | 0      | 0      |
| Others    | Male   | 0      | 0      | 0      | 0      |
|           | Female | 0      | 0      | 0      | 0      |
|           | Others | 0      | 0      | 0      | 0      |
| Total     |        | 313    | 337    | 411    | 405    |

### 3. Extended Profile

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#### 3.1 Programme

**Number of courses offered by the institution across all programs during the last five years**

**Response : 472**

**Number of self-financed Programmes offered by college**

**Response : 6**

**Number of new programmes introduced in the college during the last five years**

**Response : 3**

#### 3.2 Student

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 313     | 337     | 411     | 405     | 256     |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 311     | 345     | 345     | 276     | 146     |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 291     | 228     | 255     | 302     | 253     |

**Total number of outgoing / final year students**

**Response : 1329**

#### 3.3 Academic

**Number of teachers year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 161     | 169     | 150     | 137     | 113     |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 132     | 140     | 141     | 123     | 111     |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 132     | 140     | 141     | 123     | 111     |

**Total experience of full-time teachers****Response : 2568.2****Number of teachers recognized as guides during the last five years****Response : 1****Number of full time teachers worked in the institution during the last 5 years****Response : 720****3.4 Institution****Total number of classrooms and seminar halls****Response : 33****Total Expenditure excluding salary year wise during the last five years ( INR in Lakhs)**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 347.59  | 328.8   | 346.17  | 290.34  | 285.09  |



**Number of computers**

**Response : 468**

**Unit cost of education including the salary component(INR in Lakhs)**

**Response : 0.59**

**Unit cost of education excluding the salary component(INR in Lakhs)**

**Response : 0.27**

NAAC

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

###### Response:

KG Reddy College of Engineering & Technology prepares the academic schedule before starting the academic year.

- All departments prepare academic calendar as per the schedule given by the university along with other activities like seminars, industrial visits, guest lectures, workshops and faculty development programs.
- Faculty development program is conducted before the commencement of every academic year.
- A handbook of the curriculum is prepared and distributed to the students to create awareness about course objectives and outcomes of the course.
- Timetables are prepared based on the subjects allotted to the faculties.

###### Lesson plan:

Lesson plan includes course outcomes, course objectives, course content, reference books, web resources and gaps in the syllabus. The students are expected to achieve the course outcomes at the end of the semester. Lesson plan gives students an insight into the flow of topics that will be carried out throughout the semester.

###### Student's Interaction Sessions:

A degree of communication is required in every aspect, which makes learning easier, helps students achieve goals, increases opportunities for expanded learning, strengthens the connection between student and teacher, and creates an overall positive experience. To promote this interaction, the following programs are conducted in the campus.

- **Induction Program:** KG Reddy College of engineering and Technology conducts 5-day induction program for B.Tech and MBA where students will have an opportunity to interact with faculty, administrative staff and alumni and get familiarized with each-other.
- **Mentoring:** Our institution adopted Mentor-Mentee process to support the students in curricular, co-curricular, extra-curricular and personality development. The Mentor-Mentee ratio is 1:15.
- **Orientation Program:** The students are orientated towards semester course work, workshops, guest Lectures in every semester to fill the gap between industry and academics.

###### Projects:

Project title and guide allotment for the mini project at third year and the major project at final year. Students are encouraged to carry out the projects from the first year onwards. Students can choose a problem-statement of their choice and work towards solving real-life problems, thus giving them hands-on experience.

### **Collaborative Learning Practices:**

Students are formed into groups, each group consists of five members. A topic is given to each group. Within the group each member is assigned a specific task to actively participate in the group discussion. After the discussion, each member of the group gives a presentation. Each group is being assisted by the concerned faculty.

### **Enterprise Resource Planning (ERP):**

KG Reddy College of Engineering and Technology implements College Management System (CMS). It is a platform to monitor attendance, update student performance, and mentor-mentee counseling information. It also helps us to monitor the progress of scheduled classes and various other administrative works. It also assists us to communicate students' performance to parents through SMS, and E-Mail. Parents are also provided with login credentials through which they can access their information by logging into the CMS portal.

### **Students' assessment and development:**

Continuous assessment in a semester is carried out through presentations, seminars, assignments, mini projects, major projects and case studies which help the students to perform better in examination.

| <b>File Description</b>         | <b>Document</b>               |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### **1.1.2 Number of certificate/diploma program introduced during the last five years**

**Response:** 0

#### **1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| <b>File Description</b>                     | <b>Document</b>               |
|---|-------------------------------|
| Details of the certificate/Diploma programs | <a href="#">View Document</a> |

**1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years****Response:** 38.16

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 84      | 2       | 53      | 63      | 41      |

| File Description                                       | Document                      |
|--|-------------------------------|
| Any additional information                             | <a href="#">View Document</a> |
| Details of participation of teachers in various bodies | <a href="#">View Document</a> |

**1.2 Academic Flexibility****1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years****Response:** 13.98

1.2.1.1 How many new courses are introduced within the last five years

Response: 66

| File Description                      | Document                      |
|---------------------------------------|-------------------------------|
| Details of the new courses introduced | <a href="#">View Document</a> |
| Any additional information            | <a href="#">View Document</a> |

**1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented****Response:** 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 6

| File Description                                  | Document                      |
|---|-------------------------------|
| Name of the programs in which CBCS is implemented | <a href="#">View Document</a> |
| Any additional information                        | <a href="#">View Document</a> |

### 1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

**Response:** 0

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| File Description  | Document                      |
|---|-------------------------------|
| Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs | <a href="#">View Document</a> |

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

**Response:**

#### Gender sensitization

This course introduces to develop students' sensibility about issues of gender in contemporary India. It provides a critical perspective on the socialization of men and women. It educates students about some key biological aspects of genders. This course exposes the students to debates on the politics and economics of work and also help students reflect critically on gender violence. Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film. Students will attain a finer grasp of how gender discrimination works in our society and how to counter it. Men and women students and professionals will be better equipped to work and live together as equal entities. Students will develop a sense of appreciation of women in all walks of life.

#### Environmental science and technology

This course is introduced to understand the importance of ecological balance for sustainable development

and the impacts of developmental activities and mitigation measures. It also helps in understanding the environmental policies and regulations. Based on this course, the engineering graduates will understand/evaluate/develop technologies by ecological principles and environmental regulations which in turn help in sustainable development.

### **Disaster management**

This course gives the capacity to integrate knowledge and to analyze, evaluate and manage the different public health aspects of disaster events at local and global levels, even when limited information is available. It also gives the capacity to describe, analyze, and evaluate the environmental, social, cultural, economic, legal, and organizational aspects influencing vulnerabilities and capacities to face disasters. It also helps in the design and performs research on the different aspects of the emergencies and disaster events while demonstrating insight into the potential and limitations of science, its role in society and people's responsibility for how it is used.

### **Human values and Professional Ethics**

This course helps the students to appreciate the essential complements between 'Values' and 'Skills' to ensure sustained happiness and prosperity which are the core aspirations of all human beings. To facilitate the development of a holistic perspective among students towards life, profession and happiness based on a correct understanding of the human reality and the rest of existence. Such a holistic perspective forms the basis of value based living. It highlights plausible implications of such a holistic understanding regarding ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with nature.

### **List of Core courses**

- Gender sensitization
- Environmental science and technology
- Disaster management
- Human values and Professional Ethics

| <b>File Description</b>         | <b>Document</b>               |
|---------------------------------|-------------------------------|
| Any Additional Information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### **1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years**

**Response:** 10

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

| Response: 10  |                               |
|---|-------------------------------|
| File Description  | Document                      |
| Details of the value-added courses imparting transferable and life skills | <a href="#">View Document</a> |
| Brochure or any other document relating to value added courses.           | <a href="#">View Document</a> |

| <b>1.3.3 Percentage of students undertaking field projects / internships</b> |                               |
|--|-------------------------------|
| <b>Response: 94.74</b>   |                               |
| 1.3.3.1 Number of students undertaking field projects or internships         |                               |
| Response: 1262   |                               |
| File Description   | Document                      |
| Institutional data in prescribed format                                      | <a href="#">View Document</a> |
| List of students enrolled  | <a href="#">View Document</a> |
| Any additional information   | <a href="#">View Document</a> |

## 1.4 Feedback System

| <b>1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise</b><br><b>A.Any 4 of the above</b><br><br><b>B.Any 3 of the above</b><br><br><b>C. Any 2 of the above</b><br><br><b>D. Any 1 of the above</b><br><br><b>Response: A.Any 4 of the above</b> |                               |
|--|-------------------------------|
| File Description   | Document                      |
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management  | <a href="#">View Document</a> |
| URL for stakeholder feedback report  | <a href="#">View Document</a> |

**1.4.2 Feedback processes of the institution may be classified as follows:**

**A. Feedback collected, analysed and action taken and feedback available on website**

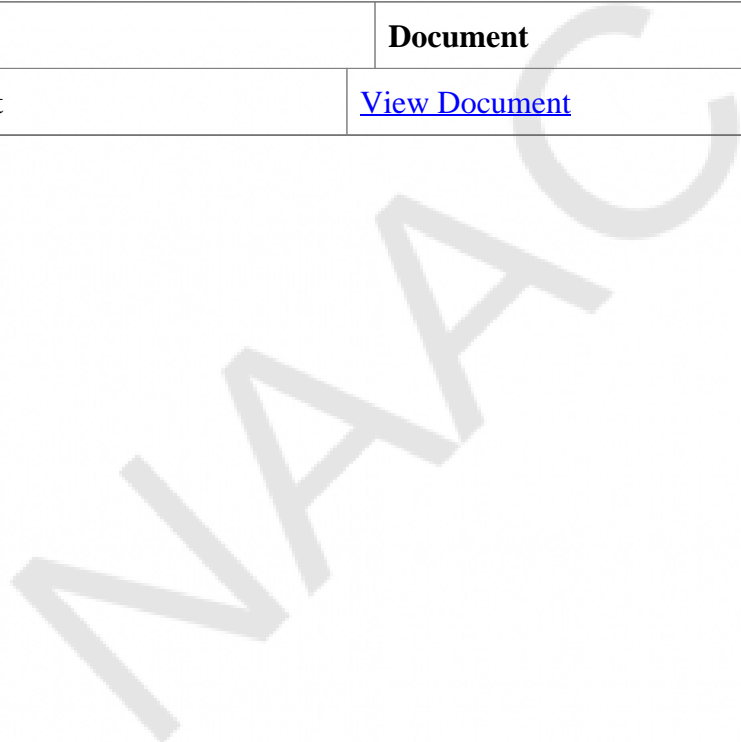
**B. Feedback collected, analysed and action has been taken**

**C. Feedback collected and analysed**

**D. Feedback collected**

**Response:** B. Feedback collected, analysed and action has been taken

| File Description        | Document                      |
|-------------------------|-------------------------------|
| URL for feedback report | <a href="#">View Document</a> |





## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 11.96

##### 2.1.1.1 Number of students from other states and countries year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 9       | 15      | 60      | 106     | 30      |

| File Description                              | Document                      |
|---|-------------------------------|
| List of students (other states and countries) | <a href="#">View Document</a> |
| Institutional data in prescribed format       | <a href="#">View Document</a> |

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 62.55

##### 2.1.2.1 Number of students admitted year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 313     | 337     | 411     | 405     | 256     |

##### 2.1.2.2 Number of sanctioned seats year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 480     | 540     | 690     | 546     | 498     |

| File Description                        | Document                      |
|---|-------------------------------|
| Institutional data in prescribed format | <a href="#">View Document</a> |
| Any additional information              | <a href="#">View Document</a> |

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per

**applicable reservation policy during the last five years****Response:** 74.41

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

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 178     | 171     | 244     | 276     | 138     |

| File Description                        | Document                      |
|---|-------------------------------|
| Institutional data in prescribed format | <a href="#">View Document</a> |
| Any additional information              | <a href="#">View Document</a> |

**2.2 Catering to Student Diversity****2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:**

K.G. Reddy College of Engineering and Technology has a streamlined mechanism of continuous monitoring and evaluation of newly admitted students. The institution considers three grading factors to identify the academic standards of students: Intermediate score, EAMCET / ICET marks and test on fundamentals of basic sciences/basics of management.

Weightage for three grading factors are as mentioned below:

- Intermediate scores: 30%
- EAMCET marks: 20%
- Test on fundamentals of basic sciences: 50%

Based on the analysis, the students who score below 60% are identified as slow learners and above 60% are identified as advanced learners. This system also contributes to the identification of slow and advanced learners.

After admission, a 5-day induction program is organized for first-year students, where students are given projects/case studies to capture their enthusiasm and to arouse the curiosity in their chosen field. Students are provided opportunity to practice module based projects in the laboratories to give them a feel of engineering. They interact with alumni to get insight about institution's culture and participate in a treasure hunt to explore the facilities within the institution.

**Strategies adopted for facilitating Slow Learners:****Collaborating Learning Practice:**

KG Reddy College of Engineering and Technology conducts remedial programs for slow learners consisting of collaborative learning technique where two advanced learners and three slow learners are grouped into a team that enables the slow learners to acquire necessary abilities, and acknowledge by seeking assistance from advanced learners.

**Additional Measures:**

Additional classes are conducted to provide additional details on the important topics, clarifying doubts, revising important concepts and practice problems in subjects that are perceived difficult. Considering students' performance in previous academic years, two additional hours of instruction are allotted every week to the subjects they find difficult for which they to get additional support.

**Strategies Adapted for Facilitating Quick Learners:**

Study hours: Quick learners gain a sound knowledge and hone their skills by helping slow learners. They explain the subject to the slow learners and clarify their doubts. All quick learners participate in activities such as workshops, seminars, paper presentations, poster presentations, and quiz competitions.

**Student Academic Enhancement:**

KG Reddy College of Engineering and Technology takes into consideration students' academic enhancement where faculty acts as a mentor to improve their academic performance by continuous monitoring and guidance.

All staff members maintain good relation with students and deal with their problems in a gentle manner.

A teacher is assigned to each batch:

- To provide additional details on the important topics
- To improve their subject knowledge

Slow learners are encouraged to raise doubts on subjects. They are advised to visit library to refer text books, e-books.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**2.2.2 Student - Full time teacher ratio**

**Response:** 8.76

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

### 2.2.3 Percentage of differently abled students (Divyangjan) on rolls

**Response:** 0

#### 2.2.3.1 Number of differently abled students on rolls

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

## 2.3 Teaching- Learning Process

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

**Response:**

KG Reddy College of Engineering and Technology emphasizes on student-centric approach which includes proven teaching methods and learning experiences. The faculty educates students with problem solving skills through activity based methods to give hands on experience.

These methodologies allow students to experiment in laboratory and learn through trial and error basis and make them accountable for the results. The institution includes internships, field trips and industrial visits to acquire skills and knowledge.

Participative learning methodologies such as Think-Pair-Share, Note Check, Minute Paper, Open Book Test, JAMS session, Short quiz, Ice breaking Activities, Model Preparation, and Ad making, random testing, co-curricular activities to ensure collaborative learning.

- **Think – Pair – Share:** The faculty implements this method to improve students' articulating abilities. Faculty asks students to write answers to questions on a topic. Then students pair and share their responses.
- **Minute Paper:** The faculty practices this method regularly in classes. During the session they pose a question to the students on the same topic. Students need to write the answer in one minute. This helps keep their concentration intact.
- **Open Book Test:** The faculty applies this method thrice in a month. Students are expected to write answers to indirect questions within 30 minutes by referring text book. This exercise helps improve their understanding and analytical skills.
- **Just a Minute:** The faculty implements this method for students. Any general topic or subject related topic is given to students and they speak on a given topic in one minute. This enhances their communication skills and builds confidence.

- Ice-breaking Activities: This method is to facilitate the students shed all their inhibitions and limitations and actively participate in a conversation. Faculty asks simple questions which the students feel comfortable to answer. Slowly the students are able to get along with one another.
- Model Preparation: The students prepare prototype model of their own idea under the guidance of UPTECH idea labs as an implementation partner and participated inHackathon program.
- Ad Making: Our management faculty shows to students a product and asks them to make an advertisement. This is an individual task or a group task. This brings out their creativity.
- Random testing: It is a process in which the studentsare randomly questioned in experiential learning or participative learning to know whether all students in a group are actively participating or not.
- Co-curricular Activities: The faculty brings about a change in giving assignments. The facultyasks students to speak about a topic in all their respective subjects as an assignment work. The students are also asked to build modules by doing the project based assignments.
- Case study: Firstly, the theory of Sales Forecast and few other topics like Power Systems, Manufacture Engineering & Fabrication Analysis, software engineering, Professional Ethics & Moral Values is explained as per university syllabus. Then, the faculty of Management Studies extent their cooperation in gaining practical knowledge by providing the real time case studies.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

**Response:** 97.37

#### 2.3.2.1 Number of teachers using ICT

Response: 148

| File Description   | Document                      |
|--|-------------------------------|
| List of teachers (using ICT for teaching)                                  | <a href="#">View Document</a> |
| Any additional information   | <a href="#">View Document</a> |
| Provide link for webpage describing the " LMS/ Academic management system" | <a href="#">View Document</a> |

### 2.3.3 Ratio of students to mentor for academic and stress related issues

**Response:** 15.31

## 2.3.3.1 Number of mentors

Response: 87

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| Year wise list of number of students, full time teachers and students to mentor ratio | <a href="#">View Document</a> |

## 2.3.4 Innovation and creativity in teaching-learning

**Response:**

**Creative Approach**

The faculty takes the help of various creative tools to stimulate creativity in young brains. The tools that are being used:

1. Audio, visual and kinesthetic: Faculty exercises three-fold learning method of audio, visual and kinesthetic to engage students in enhancing their curiosity which results in better performance.
  2. Virtual labs: Faculty is practicing teaching through virtual labs for some experiments which are difficult to do in physical labs and are shown to the students by an animated version.
  3. Video lectures: Institute encourages faculties to take videos of their lectures to be uploaded on YouTube channel to facilitate the students to access these in their own free time.
  4. M-Tutor: This is a mobile learning method introduced in the college for the benefit of students. It has learner centric content, which facilitates the students to train themselves in their convenience.
  5. NPTEL: The faculty and students have been using NPTEL in our institute to understand the current theories, practices, tools and techniques with challenges.
  6. Real world learning: It permits students to experience and test themselves in situations before encountering them in real life. Faculty gives an idea to create a tangible, useful product to be shared with the real world. The examples are making an LED lamp or constructing a thatched house.
  7. Brain storming: Faculty implements this technique by giving them a problem statement to which students need to brainstorm to get possible solutions. Students' creativity is churned out by this technique.
  8. Classes outside the class room: Some lessons are best learnt outside the class room. Faculty takes the students out of the class room and sometimes teaches amidst lush greenery where the environment is invigorating and the students also feel different from the routine.
- 
1. Exploratory/Discovery learning: Students perform an anatomy of machines and computers by dismantling and assembling and get involved in this with increased interest under the guidance of the faculty for a new learning experience through re-engineering.

**Innovative Approach:**

1. Fetch an answer beyond the topic: Faculty gives students a task which is beyond the topic. Students are required to fetch an answer by visiting library and labs.
2. Prototype building: Students build prototypes of the working models by designing a process to test how far the new design ideas are applicable.

1. Innovative assessment methods: Faculty implements formative assessment methods to monitor student's learning through homework, tests and quizzes.
2. Add-on courses: Institution conducts a two-day technical fest titled "Talentine" to give students a platform to showcase their engineering and technical skills.
3. On-line courses for knowledge acquisition: Institute encourages both faculty and students to enroll themselves in online courses to expand their frontiers of knowledge and also encourages to access journals through digital library and promotes to use the E-books.
4. Paper publications: Faculty encourages all students to participate in seminars and conferences to promote research aptitude. Students actively participate and get their research papers published.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

**2.4 Teacher Profile and Quality****2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years****Response:** 100

| File Description  | Document                      |
|---|-------------------------------|
| Year wise full time teachers and sanctioned posts for 5 years | <a href="#">View Document</a> |
| List of the faculty members authenticated by the Head of HEI  | <a href="#">View Document</a> |
| Any additional information                                    | <a href="#">View Document</a> |

**2.4.2 Average percentage of full time teachers with Ph.D. during the last five years****Response:** 3.48**2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years**

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 7       | 7       | 4       | 3       | 2       |

| File Description   | Document                      |
|--|-------------------------------|
| List of number of full time teachers with PhD and number of full time teachers for 5 years | <a href="#">View Document</a> |
| Any additional information   | <a href="#">View Document</a> |

### 2.4.3 Teaching experience of full time teachers in number of years

**Response:** 16.9

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| List of Teachers including their PAN, designation,dept and experience details | <a href="#">View Document</a> |

### 2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

**Response:** 0.45

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 2       | 1       | 0       | 0       | 0       |

| File Description                                 | Document                      |
|--|-------------------------------|
| e-copies of award letters (scanned or soft copy) | <a href="#">View Document</a> |
| Institutional data in prescribed format          | <a href="#">View Document</a> |

### 2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

**Response:** 15.95



## 2.4.5.1 Number of full time teachers from other states year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 41      | 33      | 26      | 6       | 2       |

| File Description  | Document                      |
|---|-------------------------------|
| List of full time teachers from other state and state from which qualifying degree was obtained | <a href="#">View Document</a> |

## 2.5 Evaluation Process and Reforms

### 2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

#### Response:

KG Reddy College of Engineering and Technology follows guidelines of Jawaharlal Nehru Technological University, Hyderabad for internal evaluation and assessment procedure.

- For undergraduate programs, the institute conducts two mid-exams of 25 marks each, comprising ten marks for descriptive, ten marks for objective and five marks for assignment. The average marks of both examinations are considered as final mid-marks. End semester examination is for 75 marks which is conducted by the university.
- For the post-graduate program, the institute conducts two mid-exams of 25 marks each as per university norms, and the end semester examination is for 75 marks which are conducted by the university.
- After completion of the internal examination, the faculty evaluates the answer scripts and distribute to the students for doubt clarifications or re-correction. The faculty submits the re-corrected scripts to the examination branch and marks are displayed on the notice board and in CMS. Then the principal conducts a meeting with HODs to discuss the students' performance and necessary action plan for further improvement.
- For laboratory evaluation for under graduate (R-15& R-16), the institute conducts two lab internals for 25 marks each. It is divided into ten marks for the written exam, and 15 marks are allotted for day-to-day performance in the laboratory. External lab-examination is conducted for 50 marks as per R-15 regulation and 75 marks as per R-16 regulation.

#### Reforms in the Evaluation process:

Faculty conducts unit-test/surprise-test, collaborative learning practices, project-based assignments, tutorial classes, remedial/extended classes, and study hours to evaluate students' performance to get better results.

#### Additional Procedures of Evaluation and Guidelines for Faculty

Faculty evaluates students' growth by identifying assignment topics and creating question papers on

mathematical problems, quizzes, presentations, team-work activities and solving previous year's question papers. The distribution of weight to the various components of assessment will be decided by the respective faculty and will be announced in the class within the first fortnight of the semester and shared with the head of the department.

Students' performance is also evaluated based on the following parameters: communication skills, use of modern tools (NPTEL, M-Tutor, V-labs), critical thinking skills, problem-solving skills, ability to work in teams, and leadership qualities.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

#### Response:

Internal assessment is considered as one of the most important aspects, and the following procedures are practiced for a transparent and robust mechanism.

#### Procedure for internal assessment

For all theory and practical courses, continuous assessment is conducted for a maximum of 25 marks consisting of 10 marks for descriptive, ten marks for objective, and five marks for assignments. For laboratory, 15 marks are allotted for experiments, and ten marks for the written examination. The above continuous assessment shall be carried out as per the procedure given below:

##### *Theory Courses*

Two tests, each carries 25 marks, are conducted in the semester as per the university norms. Ten marks for descriptive, ten marks for objective and five marks for assignments are allotted. The average marks of the two tests are taken as final marks.

##### *Practical Courses*

Every experiment is executed and evaluated based on the experiments prescribed by the university. There are two internal tests in the semester. The criterion for internal assessment marks (25 marks) is based on the university guidelines.

##### *Non-academic*

Along with academics, KG Reddy College of Engineering and Technology assesses students for their participation in co-curricular and extra-curricular activities. Parameters for evaluation are the enrollment of the students in student welfare department, various professional societies, cultural clubs, and sports.

**Project Work**

There are two kinds of projects namely mini-project and major-project. These projects are reviewed by an internal guide, project coordinator and head of the department. The marks for the mini-project are awarded by the head of the department with the help of the concerned internal guide, and the marks for the major project are awarded by the external examiner.

The major project is for 200 marks, and the mini project is for 50 marks. Along with this, comprehensive viva-voce is conducted for 100 marks and technical seminar/presentation is for 50 marks. Project marks are awarded based on concept creation, project report, attendance, problem-solving ability, analytical skills and aptitude and communication skills.

The faculty conduct slip test, surprise test, unit test, assignments in the form of presentations, spoken and written exams, open book exam, team work based tests to bring in various evaluations. These tests help students to improve their performance in the internal and external examination.

The details of the evaluation process, regulations, curriculum, and syllabus of all the programs are displayed on college website and notice board to maintain transparency, Also, minimum attendance and passing marks requirements for the internal assessment are communicated to the students during the orientation program, which is held for newly admitted students. The evaluation process is also informed to all the students and the parents.

Periodic instructions related to examinations and evaluation received from the university is promptly communicated to the students through circulars. The circulars are read by faculty in the classrooms, and a copy of the same is displayed on the notice board. The eligibility criteria for the final examinations are made clear to students, and the evaluation process is reviewed in staff meetings.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient****Response:**

The institute has the redressal cell for grievances regarding examination grades. The cell consists of Principal, Director, Head of Departments (HODs), and Controller of Examination. Students can apply to the cell for any issues in the evaluation of their answer scripts. The cell conducts a meeting and to hear students' concern and takes an appropriate decision which is binding on all.

The redressal of grievances regarding evaluation in both internal assessment and university examination is through the following process.

**At institute level:**

The teacher distributes evaluated answer scripts to students, and any clarifications or grievances are addressed by the teacher. The internal marks are then displayed on notice board. If any discrepancy is noticed, the concerned teacher will resolve the discrepancy, and the necessary corrections will be made. If a student is not satisfied with the marks awarded even after resolved by the teacher, they may represent the same to the Principal through the HOD concerned. All such representations are taken positively and are reassessed by another teacher if necessary.

Parents are informed about their ward's performance through SMS and E-mail through the CMS system. Students are counseled by the faculty counselor, and remedial classes are conducted for students who have failed in the examinations. Students who are absent for internal exams due to genuine reason can apply for the computer-based test conducted by the university.

**At university level:**

Students can express grievances by applying for the following evaluation procedure:

**Re-counting:**

If the students are not satisfied with the marks awarded, they can apply for re-counting within a week from the declaration of results through the examination branch at the institution. The results of re-counting will be announced as per the university norms.

**Re-evaluation:**

Students can apply for re-evaluation of their answer scripts within a week from the declaration of results if they are not satisfied with their results. The results of re-evaluation will be announced as per the university norms.

**Challenge Evaluation:**

If the re-counting/re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the results. This evaluation process is carried out in the presence of student by two subject experts; one represents from the institution and other from the university.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**2.5.4 The institution adheres to the academic calendar for the conduct of CIE****Response:**

The Program Assessment Committee (PAC) consists of principal, Heads of Departments (HODs) and controller of examinations. The PAC is responsible for preparing the academic calendar before the commencement of the semester. The academic calendar breaks down the academic year into two semesters. It provides the information of the courses for the semester, dates of commencement of class work, syllabus completion, examinations, list of holidays, and the total number of working days.

The faculty members of the concerned department gather the lists of courses for the coming semester, and the HOD finalizes the allocation of courses based on the faculty's choice and area of specialization. Faculty members then prepare the lesson plan before the commencement of semester, indicating the topics to be covered, teaching methodologies being applied, and assignments given to students and the number of lectures.

A course file for each course is prepared by the faculty, which includes course objectives, outcomes, schedule, references, study material, and questions from previous examinations papers. Students will be provided with the course file in the first week of the semester to provide them awareness about the subject and plan for the semester.

The evaluation process for each subject is duly reviewed by a senior faculty in the department, approved by the HOD, and then made available to the students. Timetable in-charge of each department prepares the timetable as per the guidelines given by the university and gets it approved by PAC. The time-table is then uploaded in CMS system and displayed on the respective department notice boards.

The performance of the student is assessed on a continuous basis by conducting two mid-exams per semester based on the university norms. The average marks of both mid-terms are taken into consideration. In addition to the tests, assignments, mini-projects, and quizzes are also part of CIE. The evaluated answer scripts are shown to the students to clarify their doubts about the evaluation process.

The academic schedule prescribed is strictly adhered by all departments. The college maintains a high standard through CIE and ensures end semester and practical examinations are conducted jointly by the concerned teacher and an external examiner appointed by the university. Schedule of the end-semester examinations and rules and regulations about evaluation of students under various courses are also included in the academic calendar.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students**

**Response:**

The Program Outcomes are published at:

1. **Departmental files:** All the departments maintain a department file containing the list of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) of all courses offered by the program.
2. **College Website:** POs, PSOs and COs are displayed on the college website and can be accessed by all the stakeholders.
3. **Lab Manual:** All POs, PSOs and COs of the department are printed on lab manuals and issued to all students at the beginning of every semester.
4. **Library:** Institute's central library keeps all the POs, PSOs and COs for easy access to students and faculty.
5. **Hand Books:** The list of POs, PSOs, COs, course objectives and topic outcomes are mentioned in the student handbook. The students would carry hand books to their classes.
6. **Course Files:** All the faculty members will prepare a course file for each semester that lists the POs, PSOs and COs.

| File Description                              | Document                      |
|---|-------------------------------|
| COs for all courses (exemplars from Glossary) | <a href="#">View Document</a> |
| Link for Additional Information               | <a href="#">View Document</a> |

### 2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

#### Response:

The process of attainment of COs, POs, and PSOs starts from writing appropriate COs for each course in the undergraduate and postgraduate programs. The course outcomes are written by the respective faculty member using action verbs of learning levels as suggested by revised Bloom's Taxonomy.

A correlation is established between COs and POs, PSOs on the scale of 0 to 3.

- 0 indicates no correlation
- 1 indicates a low correlation
- 2 indicates a medium correlation
- 3 indicates high correlation

A 6x12 mapping matrix of COs-POs and 6x4 mapping matrix of COs-PSOs is prepared in this regard for all courses in the program. The CO-PO & CO-PSO mapping matrix for a sample course is mentioned below.

### Attainment of COs and Pos

The mapping matrix of COs – POs and COs - PSOs is prepared for all the courses, and finally these matrices are merged to form a Program level CO-PO Matrix and CO – PSO Matrix

The following two assessment methods are used to measure the attainment level of POs, PSOs, and COs.

1. Direct Assessment
2. Indirect Assessment

**Direct Assessment:** Mid semester exam – I, mid semester exam – II, assignments, performance in laboratories.

Two mid-term exams are conducted for each course in a semester (internal assessment tests). Mid-term– I exam is based on CO1, CO2, and CO3, whereas mid-term– II exam is based on CO4, CO5 and CO6. Both the mid-term exams is of 20 marks each.

Similarly, each student is given two assignments based on CO's and five marks are awarded for each assignment.

**Indirect Assessment:** Strategies are implemented by embedding them in Student Survey, Employer Survey, and Alumni Survey.

We follow the NBA guidelines given in its Self Assessment Report (SAR) for arriving at an attainment level:

Attainment Level 1: 60% of students score more than 55% marks out of the maximum relevant marks.

Attainment Level 2: 70% of students score more than 55% marks out of the maximum relevant marks.

Attainment Level 3: 80% of students score more than 55% marks out of the maximum relevant.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 2.6.3 Average pass percentage of Students

**Response:** 55.91

2.6.3.1 Total number of final year students who passed the university examination

Response: 175

2.6.3.2 Total number of final year students who appeared for the examination

Response: 313

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

## 2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

| File Description                            | Document                      |
|---|-------------------------------|
| Database of all currently enrolled students | <a href="#">View Document</a> |



## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years**

**Response:** 0

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| File Description                  | Document                      |
|-----------------------------------|-------------------------------|
| List of project and grant details | <a href="#">View Document</a> |

**3.1.2 Percentage of teachers recognised as research guides at present**

**Response:** 0.66

3.1.2.1 Number of teachers recognised as research guides

Response: 1

| File Description                        | Document                      |
|---|-------------------------------|
| Institutional data in prescribed format | <a href="#">View Document</a> |
| Any additional information              | <a href="#">View Document</a> |

**3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years**

**Response:** 0

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

| File Description                              | Document                      |
|---|-------------------------------|
| Supporting document from Funding Agency       | <a href="#">View Document</a> |
| List of research projects and funding details | <a href="#">View Document</a> |

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

#### Response:

K. G. Reddy College of Engineering and Technology has the vision to foster new-age, industry-driven engineers, who are ready lead the global society and improve the quality of life. The, institution has established research and development cell, entrepreneur development cell, and business incubator cell to strengthen, and expand the research and entrepreneurial activities.

#### Research and Development(R&D) Cell:

KG Reddy College of Engineering and Technology has promoted research and development activities with a vision and mission to pursue and promote research.

#### Major Goals/Objectives of R&D cell:

- To promote multidisciplinary research projects.
- To promote the publication of research papers in reputed conferences and journals.
- To foster R&D through industry collaboration.
- To consult industries with their research related projects.
- To conduct development programs for faculty and staff.
- To encourage faculty and students' to apply for Patents and Intellectual Property Rights (IPR).

The **Research and Development Cell** promotes research and creates awareness among the students and faculty members by conducting conferences, workshops, seminars and sensitization programs for imbibing research culture. R&D cell deputed faculty to various research organizations for getting collaborative projects and adopting best practices. The cell arranges guest lectures by industry representatives on their needs, as well as arrange the lectures by eminent academicians, and research scholars.

Faculty and students' are encouraged to visit research-oriented labs and industries. Students are motivated to carry major projects in private and government research laboratories. Students are taken to visit production; engineering, software industries, and researches labs, where they are encouraged to interact with industry experts. Faculty and students are encouraged to visit various industrial exhibitions of national and international reputation.

#### Entrepreneur Development Cell:

KG Reddy College of Engineering and Technology has a goal to create a platform for budding entrepreneurs, provide provisions to explore their ideas and make students' aware of the process involved

in developing engineering products and starting a business.

Major Goals/Objectives of Entrepreneur Development Cell:

- To train and motivate the students to become job creators rather than job seekers.
- To inculcate the entrepreneurial culture in their minds.
- To assist them in starting businesses of their own. They are trained in
  - Product identification (PI)
  - Market survey, tools for market research
  - Preparation of project reports
  - Getting technical feasibility report

The institute has conducted Prime Minister Yuva Yojana and National Entrepreneurship Network (NEN) Program for all interested students from various departments to enrich their entrepreneur skills. With this knowledge and skills, students are motivated to start their start-ups.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 0

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| File Description                                   | Document                      |
|--|-------------------------------|
| List of workshops/seminars during the last 5 years | <a href="#">View Document</a> |
| Report of the event                                | <a href="#">View Document</a> |
| Any additional information                         | <a href="#">View Document</a> |

## 3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

**Response: Yes**

| File Description                        | Document                      |
|---|-------------------------------|
| Institutional data in prescribed format | <a href="#">View Document</a> |
| Any additional information              | <a href="#">View Document</a> |

**3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards**

**Response: Yes**

| File Description                   | Document                      |
|------------------------------------|-------------------------------|
| List of Awardees and Award details | <a href="#">View Document</a> |
| e- copies of the letters of awards | <a href="#">View Document</a> |

**3.3.3 Number of Ph.D.s awarded per teacher during the last five years**

**Response: 0**

3.3.3.1 How many Ph.Ds awarded within last five years

| File Description   | Document                      |
|--|-------------------------------|
| List of PhD scholars and their details like name of the guide , title of thesis, year of award etc | <a href="#">View Document</a> |

**3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years**

**Response: 0.12**

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 52      | 12      | 11      | 3       | 0       |

| File Description   | Document                      |
|--|-------------------------------|
| List of research papers by title, author, department, name and year of publication | <a href="#">View Document</a> |

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

**Response:** 0.07

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 43      | 0       | 0       | 0       | 0       |

| File Description  | Document                      |
|---|-------------------------------|
| List books and chapters in edited volumes / books published | <a href="#">View Document</a> |
| Any additional information                                  | <a href="#">View Document</a> |

## 3.4 Extension Activities

### 3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

**Response:**

KG Reddy College of Engineering and Technology provides diverse service opportunities for students to address societal needs by collaborating with and learning from the local and regional communities. Participating in community service activities helps and encourages the students to develop civic and social responsibility skills and become aware of the community needs. In this context, the institution has taken the following steps.

- K. G. Reddy College of Engineering and Technology has adopted neighborhood Chilkur village for various welfare activities such as health and hygiene awareness, community learning and development, and education development. The college arranges seminars for members of the village on topics such as child labor, gender sensitization, clean and safe energy, women safety, and environmental protection. These programs are carried throughout the year with assistance from faculty, students, and few NGO representatives.
- The institute has sponsored CCTV camera installation near the periphery of Moinabad police station
- The institution has sponsored sewage plant for the benefit of people residing Chilkur village.
- The National Social Services (NSS) unit of KG Reddy College of Engineering and Technology enables the students to interact with the community around them. It makes students identify the

needs and problems of the community, and get involved in problem-solving. This empowers students to utilize their knowledge in finding practical solutions to individual and community problems.

- The students and faculties part NSS unit are actively involved in various activities such as Telangana HarithaHaaram(plantation),National Youth Entrepreneurship Development programme, National Level Youth Fest, Gandhi Jayanthi, Swach Bharat. The NSS unit organizes awareness programs about the general elections, health camp, clean and green literacy awareness, women safety awareness, child education programme, and International Yoga Day.
- In 2017, the institute has initiated a new program for community people named as Engineering Project in Community Service (EPICS) with the collaboration of Purdue University in association with IUCEE. Under this program, faculty and students can solve the community problems with the help of their technical knowledge. Students' are currently working on a solar operated autorickshaw that will aid the community in Chilkur village for transportation and medical purposes.
- Students have worked with the Institution of Electronics and Telecommunication Engineers (IETE) on an asset mapping program in association with government bodies to find different types of assets/resources available in different places in the country. Under this program, students visit different panchayat locations to collect and send the detail report regarding assets available in the locality through Bhuvna panchayat app.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Link for Additional Information | <a href="#">View Document</a> |

### 3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

**Response: 5**

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2       | 2       | 1       | 0       | 0       |

| File Description  | Document                      |
|---|-------------------------------|
| Number of awards for extension activities in last 5 years | <a href="#">View Document</a> |
| e-copy of the award letters                               | <a href="#">View Document</a> |

### 3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., 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 Organisations through NSS/NCC/Red cross/YRC etc., year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 10      | 9       | 3       | 4       | 5       |

| File Description   | Document                      |
|--|-------------------------------|
| Number of extension and outreach programs conducted with industry, community etc for the last five years | <a href="#">View Document</a> |
| Reports of the event organized   | <a href="#">View Document</a> |
| Any additional information   | <a href="#">View Document</a> |

### 3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

**Response:** 0.57

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3       | 0       | 1       | 5       | 1       |

| File Description  | Document                      |
|---|-------------------------------|
| Average percentage of students participating in extension activities with Govt. or NGO etc. | <a href="#">View Document</a> |

## 3.5 Collaboration

**3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years****Response:** 48**3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 12      | 3       | 5       | 10      | 18      |

| File Description  | Document                      |
|---|-------------------------------|
| Number of Collaborative activities for research, faculty etc. | <a href="#">View Document</a> |
| Copies of collaboration                                       | <a href="#">View Document</a> |
| Any additional information                                    | <a href="#">View Document</a> |

**3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)****Response:** 5**3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2       | 2       | 1       | 0       | 0       |

| File Description   | Document                      |
|--|-------------------------------|
| Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years | <a href="#">View Document</a> |
| e-copies of the MoUs with institution/ industry/ corporate house   | <a href="#">View Document</a> |



## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

KG Reddy College of Engineering and Technology has well equipped and impressive infrastructure over 10 acres of land, 14522 square meters of built-up area, serene green land which provides an eco-friendly environment, and laboratories to conduct experiments and simulations.

The facilities available are mentioned below:

#### **Class Rooms**

- KG Reddy College of Engineering and Technology has well-furnished, spacious classrooms with good ventilation to conduct classes.
- Classrooms are maintained as per norms for proper visibility of blackboard and audibility.
- The classrooms are equipped with projectors, fans, lights, and LAN/WIFI connectivity.

#### **Tutorial class rooms**

- The institution has tutorial classrooms to conduct study hours, remedial classes to address the doubts and queries of students.
- Tutorial classrooms are equipped with blackboards, benches, fans and tube lights.

#### **Laboratories**

- The Institution has domain centric laboratories as per the regulations of AICTE and JNTUH.
- The Institution has fully equipped laboratories, with well-maintained instruments, devices, and equipment to conduct experiments. Additional equipment is available to provide students opportunities to work on their projects.
- The institution also has virtual lab facility in association with IIT Bombay, where the students can carry out experiments virtually.

#### **Seminar Halls**

- The college has seminar halls to conduct seminars, conferences, guest lectures, and workshops for students and faculty.
- All seminar halls have different seating capacity, and these are equipped with LCD Projectors, whiteboards, stage, podium, and public addressing system with internet facility.

#### **Computing equipment**

- The institution has 468 computers with a configuration of ACER Intel core two duos, 1GB, 2 GB, 4 GB RAM, 160 GB, 360 GB, 500 GB HDD, and ACER LED Monitor.

- 420 computers are utilized by undergraduate, post-graduate students, 48 computers and 14 laptops are used for administrative and academic purpose.

### Library

- The institution has a central library, which is well equipped and furnished with sufficient seating capacity.
- Through the digital library, students are able to access to National Digital Library (NDL), SWAYAM, and NPTEL lecture videos.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

#### 4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor) gymnasium, yoga centre etc. and cultural activities

##### Response:

KG Reddy College of Engineering and Technology focuses on the overall development of the students and encourages them to participate in different sports and cultural activities.

The Institute has 2209 sq.m area for outdoor games and 342 sq.m area for indoor games. Cultural activities are conducted in the amphitheater, and lawns in the institution.

Below are various cultural and sports activities conducted in the institution

##### Sports and Games

- The institute established a facility for sports and games in 2008.
- Institute has employed a well-qualified physical director, who supervises students to actively participate in various sports competitions.
- Physical Director trains the students in their chosen games in the time-slot allocated to them in the timetable.
- The institute has a spacious and well equipped indoor-sports room, where students can play games like table tennis, chess, and carom board and football.
- An open play ground is provided for the students to play outdoor games such as badminton, basketball, volleyball, throw ball and cricket.
- The institution encourages students to participate in inter-college, university-level, and state-level competitions.
- Institute conducts yoga, and meditation classes for teaching staff, non-teaching staff and students.
- The institution organizes intra-college sports competition every year during Talentine, our annual cultural fest.

## Cultural Activities

- Students Welfare Department (SWD) was established in 2015 that hosts literary club, dance club, music club, arts and crafts club, photography club, drama club and web designing club. Students joined in these clubs as per their interest.
- The students are encouraged to actively participate and showcase their talent and skills. The activities contribute to bring out latent talent among students, which helps to build their overall personality by developing communication skills, leadership skills and team working skills.
- Students get to showcase their talents during competitions organized as a part of Talentine, our annual cultural fest.
- Students are encouraged to participate in co-curricular and extra-curricular activities in inter-college and university level competitions.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

**Response:** 72.73

#### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 24

| File Description   | Document                      |
|--|-------------------------------|
| Number of classrooms and seminar halls with ICT enabled facilities | <a href="#">View Document</a> |
| any additional information   | <a href="#">View Document</a> |
| Link for additional information which is optional                  | <a href="#">View Document</a> |

### 4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

**Response:** 24.4

#### 4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 80.62   | 106.2   | 20.1    | 57.9    | 116.26  |

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| Details of budget allocation, excluding salary during the last five years | <a href="#">View Document</a> |
| Audited utilization statements  | <a href="#">View Document</a> |

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

#### Response:

To make the functioning of library easy and effective, college has automated the operations using NEWGEN LIB software.

- The well maintained college library is enriched with a huge collection of valuable books
- The central library was automated by the NEWGEN LIB 3.1 version software in 2014. The software consists of various modules on acquisition, cataloging, circulation, serials control, and Online Public Access to Cataloguing (OPAC).
- The NEWGENLIB software was upgraded to 3.1.2 version software in 2015. This new version enables the librarian to issue, renewal of books, maintain the database of books, journals, periodicals and to maintain the data of students and faculty who utilize the library resources.
- The library assists faculty and students for various other activities such as:
  - Reference Service
  - Reprographic Service (Xerox and Printing)
  - Quick Mail Service
  - Book Bank Service
  - Digital Library Services
  - Current Contents Service/journals
  - Current Awareness Services/newspaper
  - NPTEL – Learning Resources Service Centre
  - OPAC(Online Public Access to Cataloguing for Book Search) Service
  - Previous Question Papers Access
  - E-Book Services
  - DELNET, NDL
  - SWAYAM(online course)
  - Reports of best projects carried out by students.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

#### 4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

##### Response:

Institute maintains a wide selection of non-academic and rare books to provide faculty and students an enriched experience.

- The non-academic books range from wide topics that could contribute to the development of faculty and students. The different topics include
  - Books related to personality development.
  - Books related to history and literature of Telangana state.
  - Books of biography and autobiography of eminent personalities.
- Details of Collection of some of the rare books, :
  - Network line and fields in the year of 1955
  - Transmission and propagation standard book publishers, 1958
  - Distributed databases principles and systems, 1984
  - Computer architecture and parallel processing, 1985
  - Computer graphics, 1987

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

#### 4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

**D. Any 1 of the above****Response:** B. Any 3 of the above

| File Description  | Document                      |
|---|-------------------------------|
| Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc. | <a href="#">View Document</a> |
| Any additional information  | <a href="#">View Document</a> |

**4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)****Response:** 4.09

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3.83    | 6.25    | 1.22    | 3.95    | 5.22    |

| File Description  | Document                      |
|---|-------------------------------|
| Details of annual expenditure for purchase of books and journals during the last five years | <a href="#">View Document</a> |
| Audited statements of accounts  | <a href="#">View Document</a> |

**4.2.5 Availability of remote access to e-resources of the library****Response:** Yes

| File Description                                       | Document                      |
|--|-------------------------------|
| Details of remote access to e-resources of the library | <a href="#">View Document</a> |

**4.2.6 Percentage per day usage of library by teachers and students****Response:** 12.13

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 180

| File Description                                  | Document                      |
|---|-------------------------------|
| Any additional information                        | <a href="#">View Document</a> |
| Details of library usage by teachers and students | <a href="#">View Document</a> |

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

##### Response:

KG Reddy College of Engineering and Technology regularly upgrades and updates its IT facilities.

- The institution provides Wi-Fi facilities in the campus.
- All the computers of the institution are enabled with LAN connection.
- The internet bandwidth of the institution is 60Mbps.
- The institute keeps upgrading the internet bandwidth regularly.
- The institution has 468 computers with a configuration of ACER Intel core two duos, 1GB RAM, 2 GB RAM, 4 GB RAM, 160 GB, 360 GB, 500 GB HDD, ACER LED Monitor and laptops. detailed configuration of all the computers is available in additional information.
- The institution maintains latest multimedia facilities.
- The institution encourages faculty to utilize ICT facilities for an effective teaching-learning process.
- The Institution updates its website regularly.
- There are wide varieties of software tools and packages available in our institution. Some specialized tools are

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

#### 4.3.2 Student - Computer ratio

Response: 2.85

| File Description         | Document                      |
|--------------------------|-------------------------------|
| Student - Computer ratio | <a href="#">View Document</a> |

#### 4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

**Response:** >=50 MBPS

| File Description   | Document                      |
|--|-------------------------------|
| Details of available bandwidth of internet connection in the Institution | <a href="#">View Document</a> |
| Any additional information   | <a href="#">View Document</a> |

#### 4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

**Response:** Yes

| File Description  | Document                      |
|---|-------------------------------|
| Facilities for e-content development such as Media Centre, Recording facility,LCS | <a href="#">View Document</a> |
| Any additional information  | <a href="#">View Document</a> |
| Link to photographs   | <a href="#">View Document</a> |

## 4.4 Maintenance of Campus Infrastructure

### 4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

**Response:** 44.34

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 167.2   | 149.3   | 181.5   | 124.8   | 93.4    |



| File Description   | Document                      |
|--|-------------------------------|
| Details about assigned budget and expenditure on physical facilities and academic facilities | <a href="#">View Document</a> |
| Audited statements of accounts.  | <a href="#">View Document</a> |

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

##### **Response:**

KG Reddy College of Engineering and Technology maintains physical and academic facilities for effective teaching and learning.

##### **Laboratory**

KG Reddy College of Engineering and Technology insists on all departments to provide annual budget to maintain the existing facilities in laboratories. The annual budget is periodically approved by the board of governors, channeled through the Principal. Funds are allotted to ensure optimum utilization and the maintenance of lab equipment. IQAC members will check the working condition of the equipment at the end of each academic year and report to the principal on the deficiencies found in the labs.

##### **Library**

KG Reddy College of Engineering and Technology has a library committee. The committee follows up with the librarian and regularly monitors the library to ensure and maintain all text books, reference books, articles, competitive examination books, magazines, journals, e-magazines, e-books and e-journals. The committee regularly updates other resources such as NPTEL, SWAYAM, and NDL.

##### **Sports Room**

KG Reddy College of Engineering and Technology maintains sports facilities through regular monitoring of the equipment for indoor games and outdoor sports. The institution has a well-maintained infrastructure for sports like cricket, basketball, volleyball, throw ball and badminton.

##### **Computers**

The computer systems and other sensitive equipment (servers, Projectors, Printers, Scanners, Xerox machines, Bio-metric machines) are provided with UPS systems to avoid any damage during power outages.

##### **Classrooms**

KG Reddy College of Engineering and Technology has a supervisor who regularly maintains the boards, benches, fans and lights.

##### **Transportation**

Transport in-charge is responsible for allotting the routes considering the number of students and faculty travelling from various locations to ensure safe and comfortable travel. The transport in-charge also maintains college vehicles and obtains necessary clearance certificates, insurance, and permits from the RTA.

**Electrical**

KG Reddy College of Engineering and Technology has installed a 62.5 KVA transformer, 125 KVA generator and UPS with 30KVA, 15KVA, 10KVA, 7.5KVA, 3KVA. The college has also a diesel generator, batteries for backup and proper earth connection to ensure safe power source. The UPS batteries are checked once in a month to verify the acid and current levels. The diesel generator gets serviced twice a year for effective functioning.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Link for Additional Information | <a href="#">View Document</a> |

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

**Response:** 60.64

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 208     | 220     | 262     | 229     | 131     |

| File Description   | Document                      |
|--|-------------------------------|
| Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years | <a href="#">View Document</a> |
| Upload self attested letter with the list of students sanctioned scholarships  | <a href="#">View Document</a> |

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 12.06

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 53      | 65      | 53      | 31      | 9       |

| File Description  | Document                      |
|---|-------------------------------|
| Number of students benefited by scholarships and freeships besides government schemes in last 5 years | <a href="#">View Document</a> |
| Any additional information  | <a href="#">View Document</a> |

**5.1.3 Number of capability enhancement and development schemes –**

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

**A. 7 or more of the above**

**B. Any 6 of the above**

**C. Any 5 of the above**

**D. Any 4 of the above**

**Response:** A. 7 or more of the above

| File Description  | Document                      |
|---|-------------------------------|
| Details of capability enhancement and development schemes | <a href="#">View Document</a> |
| Link to Institutional website                             | <a href="#">View Document</a> |

**5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years**

**Response:** 10.82

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 44      | 38      | 55      | 18      | 28      |

| File Description  | Document                      |
|---|-------------------------------|
| Number of students benefited by guidance for competitive examinations and career counselling during the last five years | <a href="#">View Document</a> |
| Any additional information  | <a href="#">View Document</a> |

### 5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

**Response:** 0

5.1.5.1 Number of students attending VET year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| File Description                          | Document                      |
|---|-------------------------------|
| Details of the students benefitted by VET | <a href="#">View Document</a> |

### 5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

**Response:** Yes

| File Description   | Document                      |
|--|-------------------------------|
| Any additional information   | <a href="#">View Document</a> |
| Details of student grievances including sexual harassment and ragging cases  | <a href="#">View Document</a> |
| Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee | <a href="#">View Document</a> |

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 14.08

5.2.1.1 Number of outgoing students placed year wise during the last five years

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 44      | 38      | 55      | 18      | 28      |

| File Description  | Document                      |
|---|-------------------------------|
| Self attested list of students placed                   | <a href="#">View Document</a> |
| Any additional information                              | <a href="#">View Document</a> |
| Details of student placement during the last five years | <a href="#">View Document</a> |

### 5.2.2 Percentage of student progression to higher education (previous graduating batch)

**Response:** 1.72

5.2.2.1 Number of outgoing students progressing to higher education

Response: 5

| File Description                                   | Document                      |
|--|-------------------------------|
| Any additional information                         | <a href="#">View Document</a> |
| Upload supporting data for student/alumni          | <a href="#">View Document</a> |
| Details of student progression to higher education | <a href="#">View Document</a> |

### 5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

**Response:** 100

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

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 2       | 1       | 2       | 1       | 1       |

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 2       | 1       | 2       | 1       | 1       |

| File Description  | Document                      |
|---|-------------------------------|
| Number of students qualifying in state/ national/ international level examinations during the last five years | <a href="#">View Document</a> |
| Upload supporting data for the same   | <a href="#">View Document</a> |

### 5.3 Student Participation and Activities

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

**Response:** 26

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

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 4       | 6       | 4       | 12      | 0       |

| File Description   | Document                      |
|--|-------------------------------|
| Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years | <a href="#">View Document</a> |
| e-copies of award letters and certificates   | <a href="#">View Document</a> |

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

**Response:**

KG Reddy College of Engineering and Technology created a student council for active participation of students in the academic & administrative bodies empowers the students in gaining leadership qualities and execution skills. Student Council improve academic standards and create a sense of ownership towards the institution.

Student council helps in bringing out the talent of students in curricular and extracurricular activities during 2016-17 academic year, which are as follows:

### Academic Achievements

1. A project titled "Smart Chair" done by Dharmapuri Himabindu, Kannedari Gopi Krishnam and Ganji Srikanth, was selected in top 20 among 200 projects in EXCITE 2017 organized by the JNTUH .
2. A Project titled "BUDGET CONTROL SYSTEM" is done by Attapuram Mahendar Reddy, B Chaitanya Kumar, Peddagolla Ramu in Hyderabad Central University and is utilized by the same university.
3. 78 students got distinction in May 2017 examinations.
4. Mr. Akshay Takey got Certificate of appreciation from IEEE, as a Public Relation Ambassador, Hyderabad.

### Achievements in extracurricular activities

1. Likha Lej was awarded gold medal in Karate Open International Championship.
2. Mr. Zabi Khan was honoured with an Honorary Doctorate Degree by the World Record University which was registered under the government of United Kingdom. The registration no is 284666862.
3. K. Venkatesh won 1st prize in National Championship Trophy, Badminton March-2017 held in Dubai.

### Committees formed in the institute

- **Grievance and Redressal committee:** The students develop a responsive and accountable attitude among all the stakeholders to maintain a harmonious educational atmosphere in the institute.
- **Women cell & Prevention of Sexual Harassment Cell:** The student representatives are made aware to prevent sexual harassment by the faculty, promoting gender equity among the students, teaching and non-teaching staff.
- **Anti-Ragging Committee:** The student representatives are educated by the faculty regarding anti-ragging and are monitored in preserving a culture of ragging free environment in the institution.
- **Disciplinary Committee:** The committee members maintain discipline in the institution, which includes classrooms, corridors, laboratories, sports ground, canteen and other common areas used by the students.
- **NSS committee:** The student representatives along with the faculty motivate the students to participate in different service programs in the institution and nearby villages like Blood Donation Camp, Haritha Haram and Digital Literacy Camp.
- **Sports Committee:** The student representatives along with the faculty motivate the students to participate in indoor and outdoor games like cricket, volley ball, basket ball, chess, table tennis and caroms.
- **Cultural Committee:** The student representatives promote and arrange extracurricular activities and bring out the talent of the students with the help of the faculty organize activities like Teachers' day, Annual day, and Engineers' day.



- **Library Committee:** The student representatives ensures in smooth functioning of the library and coordination with all Head of the Department's, faculty and students.
- **SC/ST Committee:** The student representatives with the help of the faculty make aware about their reservations.

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>File Description</b>         | <b>Document</b>               |
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

**Response:** 9

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 10      | 10      | 9       | 9       | 7       |

|  |                               |
|--|-------------------------------|
| <b>File Description</b>  | <b>Document</b>               |
| Any additional information   | <a href="#">View Document</a> |
| Number of sports and cultural activities / competitions organised per year | <a href="#">View Document</a> |
| Report of the event  | <a href="#">View Document</a> |

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**

**Response:**

KG Reddy College of Engineering and Technology's alumni association creates and maintains a life-long connection between the institute and its alumni. In collaboration with extremely dedicated volunteer executive committee members, the alumni association, works to connect alumni, support the students and builds an unforgettable institute's experience through a diversity of events, programmes and services. The institute regularly interacts with the alumni association and through it organizes alumni meet ones in a year. The alumni meet provides a good opportunity for the institution to take inputs from alumni to make

the students prepare for the industry. Below are the objectives of the alumni association.

- Alumni Association provides a forum for establishing a link among the alumni, staff, and students of the institute.
- It helps in identifying and inviting industrial experts to the college for organizing seminars, guest lectures, and workshops.
- The members of the alumni association regularly visit the college and Training and Placement Cell to conduct pre-placement talks, highlighting the job opportunities available in their respective industries.
- It assists in arranging the industrial tours and internships for the final year students.
- It assists in securing consultancy projects and industrial training for the faculty.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

#### 5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

**Response:** <1 Lakh

| File Description                      | Document                      |
|---------------------------------------|-------------------------------|
| Alumni association audited statements | <a href="#">View Document</a> |

#### 5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

**Response:** 1

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 1       | 0       | 0       | 0       | 0       |

| <b>File Description</b>  | <b>Document</b>               |
|--|-------------------------------|
| Any additional information   | <a href="#">View Document</a> |
| Number of Alumni Association / Chapters meetings conducted during the last five years. | <a href="#">View Document</a> |
| Report of the event  | <a href="#">View Document</a> |

NVAAC

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

**Response:**

**Vision:**

To become self-sustainable institution and acknowledges as a new age engineering institution by inculcating research and entrepreneurial culture among stakeholders through industrial collaboration seeking the project support and providing consultancy.

**Mission:**

- Interaction with industries on consultation and research.
- Engage industries to enrichment of curriculum.
- To become preferred institution in academics.
- To encourage and develop entrepreneurs to increase job market and creating economic sustainability.

Institution have experienced and well organized Governing Body, under the GB we have The Principal, Dean Academics, Dean R&D, HODs, Student welfare Department Head, Training and Placement Officer and Administrative Officer.

**Governing Body (GB):** It is led by the Chairman of the GB. Strategic plans and decisions for the academic year are taken by the Governing Body. Recommendations and suggestions of the IQAC are forwarded to the GB through the Principal. The GB takes final decisions and sends to the Principal for implementation.

**Planning and Finance Committee:**

- **Budget:**

The process of budgeting is initiated by the respective Heads of the Department (HOD) in the month of January. All the HODs gather inputs from the faculty and other stakeholders about the requirement of the department such as equipment, books, lab equipments and stationery. Based upon these requirements the HODs prepare the budget and submit to the Principal.

In the second week of February, the Principal consolidates all the requirements of the departments in a standard format. At the end of the February this budget will be forwarded to the Purchase and Finance Committee. They will review and forward to the Governing Body for approval. Finally, the Governing Body will approve and forward it to the Principal for implementation.

**Academic Monitoring Committee:**

- **Internal Quality Assurance Cell (IQAC):** The IQAC members ensures the academic, non-

academic and administrative quality, benchmarks and focuses on achieving organizational goal and justifies the mission and vision statement of the institute. It conducts audit on reports received from the Program Assessment Committee and an audit report is then submitted to GB.

- **Program Assessment Committee (PAC):** The Principal and all the HODs will review the report received from the Department Advisory Board and identifies the gaps in implementing the academic and non academic activities and updates the same to the IQAC.
- **Department Advisory Board (DAB):** Department Head, conducts review meetings with faculty to focus and maintains records of attendance, mentoring, syllabus coverage, study hours and remedial classes. It submits the report to the PAC.

**The flow of decision is as follows:** DAB submits the Minutes of meeting to PAC and it recommends the necessary steps and submits the Minutes to IQAC. IQAC conducts an audit on the report submitted by the PAC. IQAC submits its report to the GB.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Link for Additional Information | <a href="#">View Document</a> |

### 6.1.2 The institution practices decentralization and participative management

#### Response:

KG Reddy College of Engineering and Technology is having well organized Governing Body under the leadership of the Chairman of the GB. The Principal has appointed NAAC committee as per the instructions of the GB.

#### Case Study:

**Purpose:** NAAC Accreditation for the academic year 2017-18.

**Process:** Allotting the criteria to the competent faculty at the institute level to analyze the required data for NAAC.

After confirmation of NAAC's preliminary meeting date, the proposed budget of logistics has been submitted to the Principal for approval.

IQAC has conducted a staff meeting to sensitize the process of NAAC to achieve accreditation for KG Reddy College of Engineering and Technology. Brainstorming on identifying the effective process of gathering the documents is concluded by finalizing two methods.

In the second NAAC meeting, an action plan has been designed and the structure of NAAC Internal committee has been formed. It consists of the main coordinators, centre coordinators and department coordinators under the leadership of the Principal. As to distribute the NAAC accreditation work two main coordinators, seven centre coordinators, seven department coordinators were appointed by the Principal. After distribution of the work, Principal along with all the coordinators conducted a meeting to explain each criterion with Qualitative and Quantitative Metrics. Centre coordinators have given presentation to

teaching, non-teaching and administrative staff to make them aware about the process for collecting the data and supporting documents.

NAAC coordinators assigned the work to all the coordinators, for collecting the qualitative and quantitative data within fifteen days. The work has been carried out by the department coordinators and they had submitted a report with backup documents of qualitative and quantitative data to the respective criterion coordinators. The criterion coordinators submitted the collected data to the central coordinators. Finally, the NAAC coordinators verified the data received from all the central coordinators and compiled into a Self Study Report.

As the report compilation has been completed, the Institute has invited an external auditor to evaluate and to give the inputs. After reviewing the reports, external auditor has given the suggestions.

With external auditor's inputs, all the coordinators took approval from IQAC, for documentation. Qualitative Metrics are redefined and a revised report is given to the committee.

Second visit of external auditors evaluated all the criteria and suggested a better way to present the documents along with the supporting documents according to Self Study Report.

Before uploading, a final audit is conducted by external auditors along with the Principal, IQAC and NAAC internal committee.

**Outcome:**

After reviewing the final report, the Principal initiated the further process.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

**Response:**

In the KG Reddy College of Engineering and Technology, **2nd National Conference on Engineering Science & Technology in Industrial Applications and Significance of Free Open Source Software (NCESTFOSS-2017)** has been organized on December 21 - 22, 2017.

The theme of the conference is to bring the scholars from Engineering, Science and Industrialists on a single platform to exchange their ideas and to create new trends with technological advances for the benefit of the mankind. This event promises to be a significant gathering of science and engineering professionals and academicians from different parts the country. They tend to take part in the conference as plenary speakers, paper presenters and as participants. Its main goal is to foster multidisciplinary exchange of knowledge by researchers, developers, research students and professional experts, though paper

submissions. The conference creates awareness among the faculty, research scholars, students and industry about the availability and effective use of Free Open Source Software, as an alternative to the vendor locking Software and enhance the opportunities on Free Open Source Software for the Information and Communication Technology (ICT) in India.

A total of 138 members have been participated in the conference including delegates and authors. Below is the two day schedule of the conference:

#### **DAY1-EVENTS:**

##### **Inauguration of the event:**

**Chief Guest:** Dr. K .Vijay Kumar Reddy, Professor of ME, JNTUH.

**Guest of Honour:** Mr. Dinesh Madireddy, Vice President, Emerio Technologies.

##### **Invited Talk by:**

1. Mr. Dinesh Madireddy (Vice President, Emerio) on Technology Trends in Engineering Institutions & Significance of Free Open Source Software's.
2. Mr .Krishnaneel, RF Lead, Samsung on 2G-4G Evolution and Internet of Things.
3. Mr. Ajay Malgaonkar, Lead India Development, Prolifics on Artificial Intelligence

#### **DAY2-EVENTS**

##### **Session Talks by:**

1. Dr.K.Ravi Kumar, Professor, Department of Civil Engineering, VNRVJIET
2. Dr.S.Vathsal , Ex DRDO
3. Dr.Dilip Kumar Sahu , Professor of ME
4. Dr.B.Vijay Kumar, Professor of CSE

##### **Paper Presentations by Authors**

Parallel Tracks.

**Special Talk by:** Dr.S.Vathsal, Ex DRDO, on Intellectual Property Rights.

Memorial Talk & Valedictory Session by Entire NCESTFOSS-17 Team and Distributions of Certificate has been done. The best quality papers received in the National Conference are published in International Journal 'Creative Research Thoughts' (IJCRT), an UGC approved journal with Impact Factor of 5.91. The total Expenditure for the National Conference is 1, 91,037 INR and the Income in terms of the registrations and sponsorships is 3, 48,100 INR. The balance amount 1, 57,063 INR has been saved in the conference.

##### **Main features of the conference:**

1. All the accepted papers have been published in UGC approved journal with good impact factor.
2. Saplings were been gifted to promote tree plantations for all the guests and speakers.
3. Awards have been given for the best papers presented in the conference in all the tracks.
4. Introduced an Industrial Talk session from Industry experts.

| File Description                                       | Document                      |
|--|-------------------------------|
| Any additional information                             | <a href="#">View Document</a> |
| Strategic Plan and deployment documents on the website | <a href="#">View Document</a> |

### 6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

#### Response:

Our governing body is lead by the Chairman with co-operation of the Director, Principal, and Administrative officer. All the HODs will report to Director/Principal. HOD- SWD, HOD R&D, HOD placement cell, will report to the Director. Our Finance Manager, HR manager, and E-State Manager will report to Administrative Officer.

#### The Institute has the following cells:

**Administration office:** It takes care of administrative work, maintains records related to academic and non-academic work.

**Exam branch cell:** It takes care about examination work such as; printing of exam paper, maintaining the record of results, allotment of exam duties and exam-hall arrangement

**Women Cell:** It works for gender equality and welfare of women (employees, students) under the guidance of the Committee Head (Director) .They can address their issues to solve their problems.

**National Service Scheme:** Institute encourages students to work for the welfare of the society .

**R&D:** It keeps records and updates of the faculty, informs university notifications and acts accordingly. It also includes Centre for Engineering Education Development [CEED] and Engineering Projects In Community Services [ EPICS] committees.

**CEED:** It guides students to work on their innovative ideas. It helps the faculty to update their teaching methodologies, and guides them to participate in paper publication programs.



**EPICS:** It works to fulfill institute’s vision and mission statement, and provides a platform to the students and community to address their issues and to find out the solution for the concern issues with mutual understanding as per the need of community.

**Library:** Institute has well developed and updated conventional library and e-library. It provides assistance/ guidance to the students to perform well in their academics.

**Grievance Redressal Mechanism:** It has women cell committee, disciplinary committee, and anti-ragging cell to receive complaints and to take action accordingly.

**Anti ragging:** Institute has Anti Raging Cell to fulfill student’s safety measures and squad for menace of ragging in the college and immediate action always taken against the culprit.

**Students’ welfare department:** It has various clubs, such as literature club, music club, art and craft club, dance club, photography club, social service club, social media club, web designing club and sports club. All these clubs work, under the supervision of assigned faculty members from all departments and SWD-HOD. Here students learn various skills depending on their interest.

**Sports & Games:** Institute has sports instructor, under his guidance our students have participated in various tournaments and won the prizes.

**Placement Cell:** It helps and guide students to secure jobs through placement drives conducted in the campus.

**Promotional Policies:** Institute has WhatsApp account called ‘Chat with Chairman (CC)’, ‘Dialogue with Director (DD)’ and ‘Speak with Principal (SP)’, to allow students to discuss about their problems and requirements which improves promotional polices and feedback from the students.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination**

**A. All 5 of the above**

**B. Any 4 of the above**

**C. Any 3 of the above**

**D. Any 2 of the above**

**Response:** A. All 5 of the above

| File Description   | Document                      |
|--|-------------------------------|
| Details of implementation of e-governance in areas of operation Planning and Development, Administration etc | <a href="#">View Document</a> |
| ERP Document   | <a href="#">View Document</a> |
| Screen shots of user interfaces  | <a href="#">View Document</a> |

#### **6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions**

##### **Response:**

Institute has Student Welfare Departments (SWD), NSS, Sports, women cell, R&D cell, CEED Cell, Placement cell and is very active and enthusiastic in arraigning programs.

##### **Entrepreneur Development Cell (EDC):**

EDC motivates, guides and help students to become entrepreneurs.

##### **Activity done by Entrepreneurship Development Cell (EDC):**

##### **National Entrepreneurship Network Program:**

National Entrepreneurship Network (NEN) inspires, educates and supports entrepreneurs to create high-value companies and jobs. It creates city-based entrepreneurial eco-systems consisting of institutes that educate entrepreneurship and network of mentors, investors, and incubators that support startups and Small Medium Enterprises [ SMEs]. It also aims to create a world-class innovation, eco-systems in critical sectors of high importance in India through government. It supports 25,000 companies over five years as a part of the Startup and Small Business Innovation initiative.

##### **Objectives:**

1. The Program: inspires, educates and skills young entrepreneurs.
2. Wadhvani E-cells on campus.
3. Campus counseling.
4. Network on <https://learnwise.org/#/IN/en/home/login>

##### **Courses offered:**

Institute offered the course called **Orientation Program in Entrepreneurship** the **second-year** students for entrepreneurship.

- Orientation: WFNEN 100 – Orientation Program in Entrepreneurship
- Duration of the course: 30 hours (20-teaching hours, 10 hours assignment work)
- Total lesson: 9

1. Let's Get Started.
2. Explore E-cells on Campus.
3. Listen to Some Success Stories.
4. Characteristics of Successful Entrepreneurs.
5. Communicates Effectively.
6. Design Thinking for Customer Delight.
7. Sales Skills to Become an Effective Entrepreneur.
8. Manages Risks and Learns from Failures.
9. Are You Ready to be an Entrepreneur?

**Target Students:**

Interested students are being targeted for entrepreneurship. (Excluding first year students) from all the departments

**Benefits to the Students:**

- Helps the Students to start their own Business with Knowledge.
- Gives clarity on their Career.
- Provides certificate for their course.
- Helps to improve their Entrepreneur skills.

**Benefits to the College:**

- Creates the Brand.
- Gives the opportunity to develop E- cell in the campus.
- Increases the Credibility.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**6.3 Faculty Empowerment Strategies**

**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff**

**Response:**

KG Reddy College of Engineering and Technology does think about development and welfare of its employees, and support them in all possible ways. Institute takes action to give sense of motivation and encouragement to enhance development in professional, personal and organizational goal.

- Institute provides opportunities to all employees to associate with state, national and international professional bodies.
- Institute encourages teaching, non-teaching staff to participate in workshops, conferences, FDPs for their continuous developments.
- Institute appreciates and support employees to conduct training programs and arrange industrial visits.
- Institute does believe in equality and provide equal opportunity/support to non-teaching staff too, to get enroll themselves for different courses/training programs to enhance their skills and knowledge, to update themselves according to demand/change.
- To develop administrative skills, institute avail employees to attend corporate training program inside/outside college.
- Institute provides FDPs and various training programs to our faculties to upgrade their knowledge, teaching skills, methodology, and personality.
- Institute motivates staff to have good relationship with other organizations and to participate in various programs conducted by them.
- Institute has given opportunities to staff to conduct/attend webinars of IUCEE, IEEE, and AICTE for learn/share knowledge about recent/current changes, developments in different sectors.
- As to have a better command on their respective subjects, the institute invites corporate persons, professionals and market resource persons such as researchers, industrialists, and academicians to have interaction with the faculty. These people will share their knowledge on basis of that staff to upgrade his/her knowledge accordingly.
- Institute always welcome new ideas from the experienced faculty about lecture delivery, laboratory work, and seminars/workshops, to provide guidelines to the new family members. They may have one-to-one interaction or common lecture as mini-workshop.
- Institute provides transport facility to all the employees from nearest place from their resident around & across the Hyderabad.
- Institute provides maternity leave to the female staff according to the norms.
- Institute provides twelve casual leaves in a academic year. And all other leaves as per the JNTUH norms.
- Institute provides paid leave to attend workshops/seminars/conferences/FDPs.
- Employee who has completed three years in institute is eligible to get 'Medicclaim' from the institute.
- Employee who has completed six years is eligible to get a laptop as an incentive from the institute.
- Institute has associated with ESIC-'Chinta se Mukti' scheme, under this, institute has registered with 'Scheme for Promoting Registration of Employers and Employees' (SPREE) with ESI Corporation.

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>File Description</b>         | <b>Document</b>               |
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

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

**Response:** 13.99

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 11      | 56      | 9       | 11      | 7       |

|   |                               |
|---|-------------------------------|
| <b>File Description</b>   | <b>Document</b>               |
| Any additional information  | <a href="#">View Document</a> |
| Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years | <a href="#">View Document</a> |

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 1.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 5       | 1       | 1       | 1       | 1       |

|   |                               |
|---|-------------------------------|
| <b>File Description</b>   | <b>Document</b>               |
| Any additional information  | <a href="#">View Document</a> |
| Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff | <a href="#">View Document</a> |

### 6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

**Response:** 19.14

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 19      | 20      | 28      | 27      | 28      |

| File Description   | Document                      |
|--|-------------------------------|
| Any additional information   | <a href="#">View Document</a> |
| IQAC report summary  | <a href="#">View Document</a> |
| Details of teachers attending professional development programs during the last five years | <a href="#">View Document</a> |

### 6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

**Response:**

KG Reddy College of Engineering and Technology, encourage employees to motivate them and make them more productive, institute acknowledges their work by giving appraisal/increments.

#### Self appraisal for teaching & Non-teaching staff:

Employees are supposed to submit self appraisal to fulfill parameter as follows:

- Employee's education
- Progress in education
- Online courses
- Training programs
- Workshops
- Research and Achievements

#### Appraisal system/policy for teaching staff:

- Annually we conduct self appraisal sessions.
- On the basis of detailed information about various activities provided by the faculties.
- This self appraisal form has various parts:

1. Result analysis for the subject.
2. Work load (2 semesters).
3. Quality of the lesson plans.
4. Additional work taken up by the faculty such as; remedial classes, career counseling, competitive exam preparation, extra teaching load, additional post graduate teaching, add on courses, extra task assigned by the Principal, collaborative assignments with other departments.
5. Additional duties of the institution/ department such as; Training & Placements, AICTE and the Admission Work.
6. Paper published in national or international journals.
7. FDPs/workshops/seminars conferences attended and short or long term courses done by the faculty.
8. Industrial visits.
9. Quality of the study material such as; lecture notes, lab-manuals, e-resources, question papers with solution.
10. Registration for research work (M.Phil, Ph.D).
11. Active participation in the social activities
12. Regularity, punctuality, relation with other faculties and students and team work
13. Student's feedback.
14. Parents feedback

On the basis of the above details, a committee under the chairmanship of the Principal will review for the appraisals of the faculty and is submitted to the GB for the final decisions.

**Appraisal system/policy for non-teaching staff:**

The Institute follows the Telangana Govt. rules, for annual assessments. Institute make decisions after verifying the following parameters:

- Knowledge of employee for specific job-role.
- Organization skills/ability.
- Cooperation with others to complete the task.
- Communication skills.
- Soft skills.
- Quality of work.
- Regularity & punctuality.
- Professional achievements.
- Workshops, courses, seminars attended by the employees.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

## 6.4 Financial Management and Resource Mobilization

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

#### Response:

The Governing Body of the college consisting of university and AICTE nominees, management representatives, industry and academic members to preview financial year budget proposals including Income & Expenditure (both recurring and non-recurring) details. The proposals are made on different heads such as laboratory equipment, library expenses, salary payments, building infrastructure and other maintenance expenses.

#### External:

**External auditor** is appointed by the parent trustee, who executes the statutory audit. The last audit was prepared in the month of May 2017. No major irregularities is found in the audit.

External Audit Committee verifies the income and expenditure details of the college as per the balance sheet. Then all the statements are recommended for External Audit.

There is a statutory financial audit by the External Audit Agency, who is a qualified Chartered Accountant, recognized by ICAI. External Statutory Audit is conducted without the institution's interference.

#### Procedure Preparation of Budget:

- Institute makes budget periodically, all department's HOD make their budget plan by following the guidelines provided by the principal.
- HODs create budget plan on the basis of the requirements for departmental labs, need of equipments, and required funds for various activities like guest lecture, workshops, seminars, industrial visit and for reference books.
- Principal collects the data and have a discussion with the Director in the presence of HODs, and then it is forwarded to the GB for approval.
- At the time of overall organizational budget the GB concentrates on Salaries & allowance, and administrative expenses like stationeries, software, building maintenance, electricity, water, telephones, mails, college transport, and gasoline.
- Budget is planned under the careful supervision, and considerations of need of all the departments. Priorities are made on basis of the needs to fulfill various committees' financial requirements to upgrade the development of the department.

The figures of the audited statements and budgets are compared during the governing body meetings necessary analysis is done. If the budget exceeds the expectations then explanation is called from the Principal. If the explanation is satisfactory then the audit is accepted.



| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

#### 6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)

**Response:** 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 0       | 0       | 0       | 0       |

| File Description   | Document                      |
|--|-------------------------------|
| Details of Funds / Grants received from non-government bodies during the last five years | <a href="#">View Document</a> |

#### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

**Response:**

KG REDDY College of Engineering and Technology is a self funded institution. Whenever there is the shortage of the funds; funds would be generated as the loan from parent society. It is non-interest bearing fund. Vocationally, institution takes interest bearing loans from financial institute or banks for smooth functioning of the institution. Institution offers the facilities for the various competitive examinations like Tata Consultancy Services (TCS) online exam, State Public Service Commission online exams, National Board of Examinations and Staff Selection Committee (SSC) examination for generating income. The funds are also generated from the consultancy services. The Institute is also applying for the grants from various organizations like All India Council for Technical Education (AICTE), University Grants Commission (UGC), Department of Science and Technology (DST).

The Audited income and expenditure statement of previous 5 years is as follow

| Details of Income and Expenditure ( Rs. in Lakhs) |             |             |              |             |             |
|---|-------------|-------------|--------------|-------------|-------------|
| Particulars                                       | 2012-13     | 2013-14     | 2014-15      | 2015-16     | 2016-17     |
| Income  | 4,56,45,311 | 4,72,79,514 | 7,60,22,354  | 6,30,90,571 | 6,70,00,000 |
| Expenditure                                       | 5,16,06,358 | 6,85,87,685 | 11,10,13,202 | 9,17,59,292 | 7,52,00,000 |

- **Budget:**

The process of budgeting is initiated by the respective heads of the department before commencement of Academics in the month of January. All the heads of the department takes inputs from faculty and other stakeholders about the requirement of the department such as books, lab equipments and stationery. Based upon these requirements the HODs prepare the budget and submit to the Principal.

In the second week of February, the Principal consolidated all the requirements of the departments in the standard given format, at the end of the February this budget will be forwarded to the purchase and finance committee. They will review and forward to the governing body for approval. Finally, the Governing Body will approve and forward to the Principal for further process.

- **Finance:**

Based upon the budget, the heads of the department are empowered to spend RS 5000 which they can utilize for the emergency requirement (non-budgeted) of any equipment. HODs will have to take permission from Principal either through College Management System (CMS) or an e-mail. Principal has the power to spend RS 25000/- for emergency or non-budgeting needs.

- **Purchase:**

After the review and finalization of budget from all departments and administrative office, Principal forwards the requirements to the purchase officer; Principal marks the letter to the purchase officer or store person to verify the availability of the stock. If it is not available in stock, then store person reports back to the Principal for further proclaiming. Principal checks for the requirement whether it is budgeted or not, and forwards for further process. Purchase officer invites the quotation from agencies for particular items, and prepares comparative statements by discussing with HODs and admin officer about the quality and specification for the required items and submit it to the Principal. Finally, Principal calls the meeting from purchase and finance committee. Registrar enquires with store person about the availability of stock, if it is not, then it is forwarded to the purchase committee, and he discusses with Principal. Principal sends a letter to store person.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

## 6.5 Internal Quality Assurance System

### 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

#### Response:

**Internal Quality Assurance Cell:** IQAC member ensures the academic, non-academic and administrative quality, benchmark and focuses on achieving organizational goal and justifies the mission and vision statement of the institute. It conducts audit on reports received from Program Assessment Committee (PAC) and audit report will be submitted to Governing Body (GB) for further review and they approved and asked the Principal to take necessary actions to be carried out to improve the quality.

**1) Study hours**

KG Reddy College of Engineering and Technology started conducting study hours by which the students can improve their academics.

**Study hours:-** The study hours are conducted for all the students to improve their academics. Individual attention is paid to the students to solve their doubts in difficult subjects. More emphasis is given to solve the numeric problems by using the first principle method and experts are invited for further acquisition of knowledge.

**2) Project based assignments:-**

KG Reddy College of Engineering and Technology initiated Project based assignments as a part of participative learning recommended by IQAC. Instead of writing assignments, students apply their knowledge and design prototypes, to improve their problem solving methodologies by experiential learning.

Project based assignment imbibes active and engaged learning. This method inspires students to obtain a deeper knowledge of the subjects. There is a fair chance of retaining the knowledge gained through this method rather than through traditional textbook- centered learning. As it combines team- based and independent work, students become self-driven and confident.

- Five batches of students developed prototypes, participated in Hackthon-2017 in JNTUH conducted by MHRD and one of the teams won 2nd prize and qualified for national level.
- A 15 Day workshop on Automobile and vehicle dynamics is conducted in Mechanical Dept the outcome of this workshop is students have designed and manufactured BAJA Car.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms****Response:**

The main objective of IQAC is to give quality assurance of academics and administrative works. It will function for the growth of faculty and students and provide guidelines periodically. For quality assurance, IQAC does the following:

**1) FDPs:**

This program is designed to train and develop professionals in their area. It makes sure that committee has selected the proper topic and activities for FDP and it provides practical hands-on training to all the faculty

members with the help of industry. These FDPs are adding value to faculty's career.

To improve the quality of teaching and learning, KG Reddy College of Engineering and Technology conducts Faculty development Programs (FDPs) at regular intervals.

**FDP-1:** A Faculty Development Program has been organized for the new faculty along with few existing faculty who had been recently recruited in KG Reddy College of Engineering and Technology for one week from 5 June 2017 to 10 June 2017. A total of around 30 members, from different engineering streams have attended the program. The program continued for a week. The main sessions related to the program are as follows:

- Psychometric Skills
- Active learning and 21st century learners
- Blooms Taxonomy
- OBE and NBA
- Demo Lectures by Participants

**FDP-2:** Recently a Faculty Development Program has been organized for the all faculty in KG Reddy College of Engineering and Technology for one week from 4 December 2017 to 9 December 2017. Some of the interesting topics covered in this FDP

- Engineering education teachers in 21st century
- Student Centered Learning
- Research paper writing
- Ethical practices in engineering
- Problem solving techniques

The FDP concludes by taking demonstration by the faculty in their respective subjects suggested by IQAC. Based on their performance, subject allotment for the next semester has been done.

## 2) Active Learning Methods:

Active learning is anything related to the course that all the students in the class are required to do other than simply listening and writing the notes which increase the retention ratio.

- **Think – Pair – Share:** The faculty implements this method to improve students articulating abilities. Faculty asks students to write answers to questions on a topic. Then students pair and share their responses.
- **Minute Paper:** The faculty practices this method regularly in classes. During the session they pose a question to the students on the same topic. Students need to write the answer in one minute. This helps keep their concentration intact.
- **Just a Minute:** The faculty implements this method for students. Any general topic or subject related topic is given to students and they speak on a given topic in one minute. This enhances their communication skills and builds confidence.
- **Ice-breaking Activities:** This method is to facilitate the students shed all their inhibitions and limitations and actively participate in a conversation. Faculty asks simple questions which the students feel comfortable to answer. Slowly the students are able to get along with one another.

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>File Description</b>         | <b>Document</b>               |
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

**Response:** 0.6

#### 6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3       | 0       | 0       | 0       | 0       |

|  |                               |
|--|-------------------------------|
| <b>File Description</b>  | <b>Document</b>               |
| Any additional information   | <a href="#">View Document</a> |
| Number of quality initiatives by IQAC per year for promoting quality culture | <a href="#">View Document</a> |
| IQAC link  | <a href="#">View Document</a> |

### 6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** B. Any 3 of the above

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information                                  | <a href="#">View Document</a> |
| Details of Quality assurance initiatives of the institution | <a href="#">View Document</a> |
| Annual reports of institution                               | <a href="#">View Document</a> |

### 6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

#### Response:

As a result of IQAC recommendations, improves the quality in K G Reddy College of Engineering & Technology, the following parameters are Incremental improvements:

- With the implementation of study hours, an improved performance is observed in students result.
- Five batches of students developed prototypes, participated in Hackthon-2017 in JNTUH conducted by MHRD and one of the teams won 2nd prize and qualified for National Level.
- A 15 Day workshop on Automobile and vehicle dynamics is conducted by the Mechanical Dept. The outcome of this workshop is that students have designed and manufactured BAJA Car.
- Subject allotment process is carried out, based on the performance of the faculty in demonstration of their respective domains.
- Students actively involves in theory and practical sessions due to the active learning methods.
- The students acquire knowledge about new technologies and hands-on training of latest industrial tools in the workshops.
- Students are motivated to watch the NPTEL videos to understand their academic subjects.
- Availability of resources for academics is increased due to sharing of e-books with the students from e-resource like National Digital Library (NDL), DELNET, PDF drive and Bookboon.
- Faculty registered in SWAYAM where academic information is available in the form of e-books, video lectures and online courses.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

**Response:** 12

##### 7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2       | 2       | 3       | 3       | 2       |

#### File Description

#### Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

#### 7.1.2

##### 1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

**Response:**

#### Safety & Security

KG Reddy Institute of Engineering and Technology provides a safe and secure environment to the students, faculty and non teaching staff with the cooperation of institute security personnel, city police, fire department, local communities, medical and ambulance services. The Institution has implemented Gender Sensitization course for all branches under curriculum of Jawaharlal Nehru Technology University Hyderabad. Institution's security wing is available 24/7 to address the emergency issues and also provide assistance on any kind of security related duties. The institution has fire extinguishers at appropriate places in each floor to address the fire incidences. The institute has First-Aid boxes in all the departments, Labs, security office and administrative office. Institute has a medical room which is utilized for medical emergencies by staff & students.

KG Reddy Institute of Engineering and Technology has applied for fire safety Audit for the building. Institute has appointed security team from an authorized Security Agency. They provide 24x7 security. The security verifies and takes care of the check-in and check-out of institute buses, visitors, vendors and

student ID cards and vehicles.

Women Cell (WC) has been constituted to empower the safety measures for female members in the Institution. The WC works to promote gender sensitivity in the Institution and produce harmonious atmosphere on the campus. It organizes workshops and sensitization programs both for staff and students by eminent Psychologists and social workers. Basic Functions of Cell: promoting gender sensitivity in the Institution and conducting diverse programs to educate, sensitize both male and female members

### **Counseling**

The WC also attends to the Grievances of the aggrieved students and deciphers their problems. All proceedings of the counseling shall be recorded. The Cell will provide assistance to the Faculty/Institutes/Institute for taking preventive steps in the matter of gender discrimination and sexual harassment

Our organization provides counseling to the students on regular basis to make them aware of:

- Safety parameters for riding two wheelers
- Use of Aprons in labs for safety purpose.
- Wearing formal shoes in Labs.
- Following Formal and decent dress code for boys & girls to avoid conflicts
- Good Academic performance
- Attaining 100% Attendance
- Proper Body language

### **Common rooms**

The institute provides common rooms for girls & boys, which is under security surveillance.

| <b>File Description</b>    | <b>Document</b>               |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

### **7.1.3 Alternate Energy initiatives such as:**

#### **1. Percentage of annual power requirement of the Institution met by the renewable energy sources**

**Response:** 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 0.14

7.1.3.2 Total annual power requirement (in KWH)

Response: 110314



| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| Details of power requirement of the Institution met by renewable energy sources | <a href="#">View Document</a> |

#### 7.1.4 Percentage of annual lighting power requirements met through LED bulbs

**Response:** 17.89

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 1.7

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 9.5

| File Description   | Document                      |
|--|-------------------------------|
| Any additional information                                   | <a href="#">View Document</a> |
| Details of lighting power requirements met through LED bulbs | <a href="#">View Document</a> |

#### 7.1.5 Waste Management steps including:

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

**Response:**

**Solid waste management:** Solid waste is collected and segregated in two separate bins as dry & wet waste. The Green-colored dustbins are meant for wet and biodegradable wastes. Red dustbins are meant for dry waste, disposal of plastic wrappers and non biodegradable wastes, papers and glass bottles. Cleaning or emptying of the dustbins is being done on a regular basis at 10:00 to 11am and 3:00 pm every day. Dried leaves and plant clippings are collected and segregated in compost pits to produce manure and which is used for gardening as organic manure to increases fertility of the soil.

**Liquid waste management:** Liquid waste from kitchens, toilets, sent into Sewerage Treatment Plant (STP) and recycled, this water is used for watering plants and flushing of toilets.

**E-waste management:** At the end-of computers useful life, they are collected from different locations of the campus by designated technicians. The computers are sometimes repaired and some are likely not repaired due to the level of damage. The irreparable are inspected by the authorities and it's open for disposal through contractors or vendors for reuse / recycling purpose.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 7.1.6 Rain water harvesting structures and utilization in the campus

#### Response:

KG Reddy College of Engineering and Technology has enabled rainwater harvesting system (RWH) in the campus. Rain water collected from roof top of the buildings, paved streets, parking lots, sidewalks is sent to storage tank. After the tank is full, the overflow water is sent to recharge pit which improves ground water level. RWH system provides sources of water and reduces dependence on the wells and other sources which is cost effective. The water from storage tank is used for gardening, flushing of toilets, floor cleaning and other external uses. To prevent the wastage of water, recycling plant is established, which recycles the water collected from toilets and kitchens. The recycled water is used to water the plants and garden. Institution also implements drip system for watering the plantation to avoid the wastage of water. All the lawns are equipped with sprinkler system to reduce water wastage & less consumption of electricity for regular watering.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

### 7.1.7 Green Practices

- **Students, staff using**
  - a) **Bicycles**
  - b) **Public Transport**
  - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

#### Response:

#### Public Transport:

Transport department functions in the institute with 10 buses to provide transport facility to the students and staff from different destinations. Some students & Staff opt for public transport (RTC Busses) instead of their own transport. Few of the students & staff are car pooling/ sharing for their convenience as to save

fuel consumption.

**Pedestrian Friendly roads:** The Institute has pedestrian paths on both the sides of the road within the campus. The goal of these Pedestrian friendly roads is to encourage walking as an attractive means of transportation as well as for leisure, recreation and health.

**Green landscaping with trees and plants:**

Tree plantation and maintenance is the major practice of the institute to maintain the pristine, purity and aesthetic beauty of the institute to provide a congenial atmosphere for the academic and non-academic pursuits. Wide range of plants and trees are grown in and around the campus are nurtured by gardeners. Organic vegetation, fruits and flowers are grown in the campus to promote healthy living. All the lawns are equipped with sprinkler system and drip to reduce water wastage & less consumption of electricity for regular watering.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

**7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years**

**Response:** 0.29

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0.24    | 0.35    | 2.79    | 0.57    | 0.77    |

| File Description  | Document                      |
|---|-------------------------------|
| Details of expenditure on green initiatives and waste management during the last five years | <a href="#">View Document</a> |
| Green audit report  | <a href="#">View Document</a> |

**7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:**

1. Physical facilities
2. Provision for lift
3. Ramp / Rails

4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

**Response:** B. At least 6 of the above

| File Description                                       | Document                      |
|--|-------------------------------|
| Any additional information                             | <a href="#">View Document</a> |
| Resources available in the institution for Divyangjan  | <a href="#">View Document</a> |
| link to photos and videos of facilities for Divyangjan | <a href="#">View Document</a> |

#### 7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

**Response:** 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 2       | 0       | 2       | 1       |

| File Description  | Document                      |
|---|-------------------------------|
| Number of Specific initiatives to address locational advantages and disadvantages | <a href="#">View Document</a> |
| Any additional information  | <a href="#">View Document</a> |

#### 7.1.11 Number of initiatives taken to engage with and contribute to local community during the last

**five years (Not addressed elsewhere)**

**Response: 2**

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0       | 1       | 0       | 0       | 1       |

| File Description   | Document                      |
|--|-------------------------------|
| Details of initiatives taken to engage with local community during the last five years | <a href="#">View Document</a> |
| Report of the event  | <a href="#">View Document</a> |

**7.1.12**

**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff**

**Response: Yes**

| File Description   | Document                      |
|--|-------------------------------|
| Any additional information   | <a href="#">View Document</a> |
| URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics | <a href="#">View Document</a> |

**7.1.13 Display of core values in the institution and on its website**

**Response: Yes**

| File Description                                 | Document                      |
|--|-------------------------------|
| Any additional information                       | <a href="#">View Document</a> |
| Provide URL of website that displays core values | <a href="#">View Document</a> |

**7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**

**Response: Yes**

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| Details of activities organized to increase consciousness about national identities and symbols | <a href="#">View Document</a> |

#### 7.1.15 The institution offers a course on Human Values and professional ethics

**Response:** Yes

| File Description   | Document                      |
|--|-------------------------------|
| Any additional information   | <a href="#">View Document</a> |
| Provide link to Courses on Human Values and professional ethics on Institutional website | <a href="#">View Document</a> |

#### 7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

**Response:** Yes

| File Description  | Document                      |
|---|-------------------------------|
| Any additional information  | <a href="#">View Document</a> |
| Provide URL of supporting documents to prove institution functions as per professional code | <a href="#">View Document</a> |

#### 7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

**Response:** 9

| File Description   | Document                      |
|--|-------------------------------|
| List of activities conducted for promotion of universal values | <a href="#">View Document</a> |
| Any additional information                                     | <a href="#">View Document</a> |

#### 7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

**Response:**

**KGR CET organizes and celebrates the festivals like:**

**Sankranti:**

It will be celebrated every year in the month of January, rangoli competitions are conducted to students.

**Diwali:**

It will be in the month of November usually. All the students and staff brought home made sweets, as an appreciation best sweet award is given

**Bathukamma:**

We celebrated this festival by preparing Bathukammas by students and staff.

**Bonalu:**

Bonam is prepared and the staff and students visited nearby temple.

**We also celebrate National festivals like**

**Republic day:**

Every year we celebrate this day on 26th January, Flag hosting is done, various competitions are conducted and sweets are distributed to all.

**Independence day:**

Every year we celebrate this day on 15th August, Flag hosting is done, various competitions are conducted and sweets are distributed to all.

Institute also gives importance to Birth/Death anniversaries of great Indian personalities and we celebrate them like

**Gandhi Jayanthi:**

We celebrate this day on 2nd October; students are encouraged to give speeches on universal values.

**Sadbhavana diwas:**

We celebrate this day on 20th August Rajiv Gandhi birthday. students are encouraged to give speeches on universal values.

**National Youth day:**

We celebrate this day on 12th January, Swami Vivekananda birthday. Students and Faculty give speeches on universal values.

**Ambedkar jayanthi:**

We celebrate this day on 14th April, Dr. B. R. Ambedkar birthday. Students are encouraged to give speeches on universal values.

**Teachers day:**

We celebrate this day on 5th September, Dr. Sarvepally Radhakrishnan birthday. Students celebrate by felicitating teachers on this day.

**Children's day:**

We celebrate this day on 14th November, Pandit Jawaharlal Nehru birthday. We celebrate by going to nearby schools and orphanages.

**Engineers day:**

We celebrate this day on 15th September every year as a remarkable tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya (popularly known as Sir MV).

**We also celebrate International days like****Yoga day:**

We celebrate this day on 21st June every year. Students and staff are encouraged to practice Yoga by Yoga Practitioner.

**Women's day:**

We celebrate this day on 8th March every year. Girl students and female staff are appreciated.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

**7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions****Response:**

**Yes**

The Department Advisory Board(DAB) is headed by HOD. DAB committee members meets fortnightly and discuss regarding the academics, administrative and financial required fund of various departments, lab, and library. The HODs submit expenditure statement to the Program Assessment Committee (PAC) for allocation of the fund. The request from DAB is forwarded to IQAC after assessment by PAC.IQAC



will assess quality measures and forwards the request to Governing Body(GB). The GB will allocate the required fund to the department. The HOD's will execute the tasks as decided in the DAB meeting.

- Education is a process of all round development of an individual-physical, intellectual, emotional, social, moral, and spiritual. The teachers are the facilitators and inculcator of values and transformer of inner being. The institution does not consider education as a mere acquisition of information Passing examinations and getting degrees. The college insists on instilling a sense of humanism, a deep concern for the well being of others and the nation. The institution adopts some activities like instruction, the relationship between students, curricular activities, etc. to improve the integration among the students and faculty members.
- The institution strives hard to give the best place to work with the faculty member. It aims to ensure protection, Security, Cultural and Social Development, Welfare, Good environment and offer opportunities for all according to their ability without discrimination.
- The institution works for the welfare of the society by conducting programs such as blood donation camp, health, and hygiene awareness programs, awareness programs on road safety, Haritha Haram in association with NSS and Lion's Club.

| File Description           | Document                      |
|----------------------------|-------------------------------|
| Any additional information | <a href="#">View Document</a> |

## 7.2 Best Practices

### 7.2.1 Describe at least two institutional best practices (as per NAAC Format)

#### Response:

#### BEST PRACTICE 1

#### Title: Bridging the Gaps between Academics and Industries

#### Objective

To the students involve students in practical learning to get real-time industrial experience and acquired knowledge from industry interactions with R&D and through the assignments more interesting .Institute followed method of project-based assignments.

#### Execution of Maker Space at our institution

- Institute initiated Maker-Space activities in 2016 to develop awareness among students on latest technologies (Raspberry Pi, IOT, Cloud computing)  
With the support of "UPTEC IDEA Labs," as implementation partners conducted orientation, seminars, and workshops in our college. Students have actively participated in the event "Hackathon." (excite and App development)

## **Project Based Learning**

The institution has implemented this method for Mini projects related to subjects which was given to students as a part of the assignment.

### **Evidence of Success:**

Under the guidance of Maker Space, one of the projects named "SMART CHAIR," has been selected in the Jawaharlal Nehru Technological University Hyderabad EXCITE-2017 in top 20 projects.

**Project –Smart Chair:** Nowadays, we observe many people suffering with back pain in the earlier stages of their life, this is due to sitting for longer hours at their workstations to complete their work without caring about their health, ,so students have developed a smart chair to avoid the back pain issues with an auto adjustment feature ,the chair will change the posture of the person automatically based on time intervals, it alerts the person before the adjustment takes place by vibrating the chair and also by an android application.

## **BEST PRACTICE 2**

### **Title: FINANCIAL ASSISTANCE TO STUDENTS**

**Objective:** To provide financial assistance to the students of K.G. Reddy College of Engineering and Technology for completing their graduation.

**The context:** Students are from a diverse background, some of the students are meritorious but not capable of paying the tuition and other fees due to their financial conditions. It is the culture of the institution to support those students to achieve their dreams.

**The Practice:** Financial assistance is provided to the students based on the following parameters.

- The annual income of the family is taken into consideration to provide a scholarship to the merit students at the time admission.
- The scholarship is renewed based on their academic performances.
- A student from a rural/urban background, preferably nearby villages.
- Achievements -Sports/ Social activities.
- Physically Challenged.

KG Reddy College of Engineering & Technology governing body will take a decision in the selection process based on above-mentioned parameters.

**Approval Process:** At the starting of academic year college will release scholarship notification. Eligible students could apply for the scholarship with supporting documents as mentioned in the notification and finalized by governing body, Review in Policy of Scholarship is carried by taking feedback from benefited students, heads of the Department, faculties and reporting to the governing body.

**Evidence of Success:** Many numbers of students received those scholarships have completed their degree. The exit feedback from those students indicates the true success of this scholarship program.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

## 7.3 Institutional Distinctiveness

### 7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

#### Response:

**Engineering Projects in Community Service (EPICS)** is one of the distinctive characteristic programs at our institution, in collaboration with Purdue University, IUCEE. As a part of vision and mission of our college to produce industry-ready students, we have included EPICS in our institution. A systematic plan is formulated for implementation of EPICS programme. We have formed a team to develop the community problems in our institution. EPICS bring the students and community on the same platform to know the problem and to develop a design to address the problem, which fulfills the needs of the community.

An EPIC is a service-learning design program in which teams of students' partner with local community organizations to fulfill human, community, and environmental needs. It increases the self-efficiency of the students. To build these traits EPICS has started two courses.

- 1. Design thinking Course:** This course is designed only for faculty. Faculty gets training and inputs through webinars conducted weekly. The faculty gives inputs to the students. Students have started developing the prototype for different community projects. This course was concluded by November 30 with the successful design of the projects by students with the help of the faculty.
- 2. Virtual Labs:** This Course was for both faculty and students. In this course, a detailed description of Remote Laboratory Design and Development was discussed.

In our Institution, we have organized awareness program on EPICS, to the students who are willing to serve the society. In this awareness program, we had talked about how to find a community partner, how to interact and find the problems encountered with people in the community, how to design the prototype and the documentation for the projects.

After this Awareness program, we had organized SODHAYATRA in Chilkur village along with 75 students, in this Sodhayatra, students interacted with community people and have identified some problems that they have. Students have submitted a detailed project report on 19 identified problems, and we have conducted a brainstorming session on these Problems for community people. From these 19 identified problems, we have started to design the prototype for 15 Problems which are of top priority.

Execution of Design thinking course in KG Reddy College of Engineering and Technology:

1. Animal Treatment kit for veterinary Doctor.
2. Secured Digital wallet.
3. High Secured women bracelet.
4. Solar gross Cutter.

5. Smart E-Note Book
6. Candy finder.
7. Performance and Analysis of Solekshaw (Solar-Electric-Auto- Rickshaw)
8. Garage Remainder.
9. Safe Heart.
10. Easy buy Mini laptop.
11. Assessing and Treating The Physio-Chemical Characteristics Of Kitchen Wastewater By Using Wetlands Technology
12. Hospital maintenance App.
13. Mobile Alert Mode.
14. ParkrLo
15. Mobile Toilet for School students in Chilkur village.
16. Battery Sharing App (still prototype under Design).

These are the Projects we have been designing and implementing in our institution. These are the projects nominated for the competition in ICTIEE-2018 conference.

| File Description                | Document                      |
|---------------------------------|-------------------------------|
| Any additional information      | <a href="#">View Document</a> |
| Link for Additional Information | <a href="#">View Document</a> |

## 5. CONCLUSION

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### **Additional Information :**

Institution have good governance practices which plays a pivotal role in practicing excellent student-needed teaching learning process, inculcate efficient research culture to successfully meet their vision and mission. Institution provided scholarships to meritorious and economically deprived students to achieve their dream to become successful engineer. Institution have Student Council to promote good communication within campus, promoting the institutional policies and support educational development programmes.

### **Concluding Remarks :**

In such a competitive environment, the institution constantly enhances its practices towards effective teaching-learning, research culture, consultancy and creating young entrepreneurs. Hence, apart from the regular university curriculum, students at the institution are trained in a holistic way by inculcating ethical and moral values, self-motivation and social awareness which makes them responsible future citizens. Institution works towards continuous improvisation of teaching methodologies by upgrading with best practices.

Students are also trained to enhance their employability skills through campus recruitment training programs by renowned academicians and by industry professionals. The department of training and placement constantly endeavors towards providing best placement opportunities.

The Institution has been producing successful young entrepreneurs with professional ethics by introducing core values and beliefs. The institute provides technology-enabled, congenial and eco-friendly environment for both students and faculty to face the challenges.