



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		KUPPAM ENGINEERING COLLEGE
Name of the head of the Institution		Dr. S. Sudhakar Babu
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08570256966
Mobile no.		9393812267
Registered Email		principal@kec.ac.in
Alternate Email		mail@kec.ac.in
Address		P B Natham Post
City/Town		Kuppam, Chittoor Dt.
State/UT		Andhra Pradesh
Pincode		517425
<b>2. Institutional Status</b>		

Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Rural</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Dr. S. Baskaran</b>
Phone no/Alternate Phone no.	<b>08570256966</b>
Mobile no.	<b>9440760833</b>
Registered Email	<b>viceprincipal@kec.ac.in</b>
Alternate Email	<b>iqac@kec.ac.in</b>

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.kec.ac.in/wp-content/uploads/2019/01/AQAR-2017-18.pdf">http://www.kec.ac.in/wp-content/uploads/2019/01/AQAR-2017-18.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes, whether it is uploaded in the institutional website: Weblink :	<a href="http://www.kec.ac.in">http://www.kec.ac.in</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
<b>1</b>	<b>B</b>	<b>2.30</b>	<b>2014</b>	<b>21-Feb-2014</b>	<b>20-Feb-2019</b>

<b>6. Date of Establishment of IQAC</b>	<b>02-Dec-2013</b>
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### 7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>Preparation and submission of NAAC</b>	<b>21-Nov-2018 01</b>	<b>22</b>
<b>Revised NAAC NORMS &amp; PROCEDURES</b>	<b>26-Oct-2018 02</b>	<b>3</b>

Accrediting the unaccredited institutions in south eastern region	01-Sep-2018 01	3
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Kuppam Engineering College	New Gen IEDC	NSTEDB	2017 365	6000000
Kuppam Engineering College	NIDHI	DST	2018 365	1000000
Kuppam Engineering College	PMKVY-TI	AICTE	2018 730	2300000
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View Uploaded File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Initiative for improvement of placement by conducting in house training

Curriculum gap analysis to improve the student quality

Student internships and value added courses

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
Induction program for Freshers	As per the AICTE Model induction program was conducted for all I Year Students
ICT for faculty members	Faculty members were trained internally to improve the teaching methodologies
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Steering committee	30-Dec-2021

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2019

Date of Submission

22-Nov-2019

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

Yes, the institution has a Management Information System (MIS) that takes care of the following services. ? Admin ? Academic ? Placement ? Correspondence ? General ? Admission ? Examination ? Employee ? Hostel

**Part B**

**CRITERION I – CURRICULAR ASPECTS**

**1.1 – Curriculum Planning and Implementation**

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500

The Academic calendar prepared by institute is based on University calendar of academic activities taking care of number of working days not less than the minimum (90 days) prescribed by AICTE and University. The Department events are planned by DAC by strictly considering the academic calendar issued by the Institute. The Institute strictly adheres to the institute calendar. Curriculum

Delivery System (CDS) The various aspects in the CDS are as follows: •

Preparation of course files • Preparation of question bank • Preparation of assignments and tutorials • Lecture delivery methods • Learning methods

Preparation of course files: The academic file comprises of 1. Syllabus 2. Lesson plan 3. Course materials prepared from standard prescribed text books, NPTEL lectures and online sources. 4. Course objectives and course outcomes duly approved by HOD 5. Mid and Unit test assessment details 6. Action taken report in consultation with HOD 7. Impact analysis Preparation of question

bank: The question bank should be prepared consulting the previous year question papers of the University, question banks available from higher Institutions like IIT, IISC and NITs, standard text books, MOOCs and NPTEL lectures. Preparation of assignments and tutorials: The Assignments and tutorials are prepared giving due weightage for all the Units in the courses. Lecture delivery methods: The faculty members use chalk and board as well as audio-visual aids in teaching based on whether the course is descriptive or analytical. The faculty members revise the portion covered in the previous classes and also ask questions to the students to assess the extent to which the students are able to understand the covered portions. Students are also encouraged to interact during the lectures to enhance the ability for better understanding of the course. The students also encouraged to get clarification for their doubts during and after class hours. In addition the faculty members also using models, charts and case studies wherever required for quality improvement in teaching learning process. Learning methods: Web-based learning:

The students are exposed to effective use of online materials from various programs like NPTEL, MOOCs, SWAYAM and QEEE etc. The staff members also post their materials in the respective department website. The students also advised to refer to the course materials and tutorials available on some of the leading foreign universities websites. Computer-based learning: The students are given training for effective use of application, simulation and systems softwares to enhance their capability for better understanding of the concepts in the design and development of real time systems and for the solution of complex real time problems. They are also given training to take up assignments, tutorials and online examinations. Library enhanced learning: The students are encouraged to go to the library and refer to the standard books relevant to the courses and also the online journals available in the digital library. So that they are able to know the latest technological developments in their branch of study.

Library hour is earmarked for the same. Project-based learning:

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
MANUFACTURING (WELDING) FOUNDATION	Nil	02/02/2019	14	yes	Nil
TURNING -NC CONTROL PROGRAMMING	Nil	11/02/2019	5	yes	Nil
PLC	Nil	12/03/2018	5	yes	Nil

PROGRAM						
PCB AND PROTEUS	Nil	07/05/2018	15	yes	Nil	
AURDINO WITH IOT	Nil	14/11/2018	12	yes	Nil	
BASIC FUNDAMENTALS OF HOME ELECTRICAL WIRING	Nil	08/01/2019	30	yes	Nil	
ADVANCED STRUCTURAL ENGINEERING	Nil	07/04/2018	30	yes	Nil	
DESIGN AND DETAILING OF RC FRAMED BUILDING AS PER IS CODE	Nil	17/12/2018	30	yes	Nil	
QUANTITY TAKE OFF AND ESTIMATION	Nil	11/03/2019	30	yes	Nil	
MARKET PLANING MANAGEMENT	Nil	09/10/2018	30	yes	Nil	
LEADERSHIP AND STRATEGY	Nil	03/09/2018	14	yes	Nil	
SIX SIGMA	Nil	10/12/2018	20	yes	Nil	
STRATEGY IN DIGITAL AGE	Nil	14/12/2018	30	yes	Nil	
EMBEDDED SYSTEM DESIGN	Nil	15/01/2018	7	yes	Nil	
INTRODUCTION TO INTERNET OF THINGS	Nil	16/01/2019	7	yes	Nil	
Training Programme on Data Science with Python	Nil	12/10/2018	5	yes	Nil	
Amazon Web Services (AWS) With the support of APSSDC	Nil	23/07/2018	6	yes	Nil	
Training Programme On VB.NET	Nil	13/12/2018	5	yes	Nil	
Training Programme On	Nil	28/07/2018	6	yes	Nil	

Designing IOT Application Development					
Entrepreneurship Awareness Program	Nil	21/02/2019	10	yes	Nil
Training Programm Advanced Python and Introduction to Machine Learning	Nil	11/02/2019	6	yes	Nil
Training Programme on Arduino Programming	Nil	18/03/2019	6	yes	Nil
ROBCAD BASICS	Nil	11/02/2019	5	yes	Nil

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Mtech	COMPUTER SCIENCE & ENGINEERING	03/07/2017
Mtech	POWER ELECTRONICS	03/07/2017
Mtech	MACHINE DESIGN	03/07/2017
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	03/07/2015
BTech	CIVIL ENGINEERING	03/07/2015
BTech	COMPUTER SCIENCE & ENGINEERING	03/07/2015
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	03/07/2015
BTech	MECHANICAL ENGINEERING	03/07/2015
MBA	MASTER OF BUSINESS ADMINISTRATION	03/07/2017
Mtech	VLSI	03/07/2017
Mtech	EMBEDED SYSTEM	03/07/2017

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	1271	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Seminar on Ethical Hacking and Network Security	10/05/2018	35
Hands on training program on MYSQL	07/07/2018	40
Seminar on Machine Learning Techniques	08/11/2018	40
Seminar on Advanced Java Programming	15/09/2018	45
Hands on training on PHP	20/10/2018	45
Seminar on Big Data Analytics	04/07/2018	40
Hands on Training to built data Warehouse explore WEKA(Data Mining Laboratory)	19/01/2018	50
IOT BASED UNDER GROUND CABLE FAULT DISTANCE DETECTION	03/04/2018	35
GSM BASED WITH SECURITY SYSTEM	04/04/2018	30
ADVANCES IN SOLAR ENERGY TECHNOLOGIES	15/03/2018	38
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#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	COMPUTER SCIENCE AND ENGINEERING	32
BTech	COMPUTER SCIENCE AND ENGINEERING	55
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	10
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	1
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	1
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	16
BTech	ELECTRICAL &	38



	ELECTRONICS ENGINEERING	
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	6
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	3
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	100
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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

Feedback Obtained
<p>Feedback is regularly collected and analyzed from the various stakeholders like</p> <ul style="list-style-type: none"> <li>• Students</li> <li>• Alumni</li> <li>• Parent</li> <li>• Employer</li> <li>• Teachers</li> </ul> <p>All the students are required to fill a feedback-form appraising the faculty twice in a semester using a scale of 1 (excellent), 2 (good), 3 (average) and 4 (poor). Based on the average feedback from the students, the staff members are classified in to having excellent, good, average and poor teaching capabilities. The average and poor assessed teachers by the students are given adequate training and counseling in order to slide them over to excellent and good categories.</p> <ul style="list-style-type: none"> <li>• The newly joined inexperienced staff members are given an orientation lecture for effective teaching by them.</li> <li>• Lecture classes are monitored by senior Professors and Head of the Department. They give constructive comments to improve the quality of teaching and the teaching- learning process.</li> <li>• Counseling by the respective HOD for those faculty members who have secured low scores and negative comments, if any, in the feedback. This motivates them to improve their skills and abilities as a teacher.</li> <li>• Corrective actions based on students' feedback and assessment by the Head of the Department. If serious complaints are received from students about their course handling ability then an explanation from the concerned faculty is called for by the HOD. If the explanation is not satisfactory then the HOD in consultation with the principal and management instruct the staff member to improve his/her teaching skills by providing them suitable training and advice.</li> </ul> <p>Impact Analysis: The following are the positive outcomes observed after adopting the above mentioned Teaching and Learning Process:</p> <ul style="list-style-type: none"> <li>• Improved teaching capability of the staff members.</li> <li>• Improved ambience for teaching and learning.</li> <li>• Improved attendance of students.</li> <li>• Improvement in academic performance by students.</li> <li>• Active participation of students in competitive exams.</li> <li>• Exposure to latest developments in their technological areas.</li> <li>• Improved thinking capability for participation in project exhibition/ technical events conducted by other institutions.</li> <li>• Improvement in the students' analytical abilities resulting in better placements.</li> <li>• Appreciation from the management and parents.</li> </ul> <p>Feedback on facilities Assessment is based on student feedback collection, analysis and corrective action taken. Feedback from all the students on facilities like class rooms, computer and other laboratories, workshop, wash room, drinking</p>

water and etc. is obtained once in a semester to improve the overall ambience and working environment. Programme coordinator will collect Students feedback form on facilities from the students as per the format depicted below. Also students /faculty members can utilize the suggestion box to post the views regarding their requirements and suggestions. Feedback from alumni / employer The current syllabus prescribed by the university will be shared with the senior alumni and employers for the purpose of identifying the gap between industry and academia. The analysis will be used to design/conduct the value added programs and certificate programs for the current students.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	COMPUTER SCIENCE AND ENGINEERING	120	103	103
BTech	CIVIL ENGINEERING	60	33	33
BTech	MECHANICAL ENGINEERING	60	32	32
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	120	90	90
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	120	30	30
Mtech	COMPUTER SCIENCE AND ENGINEERING	18	6	6
Mtech	MACHINE DESIGN	18	6	6
Mtech	EMBEDDED SYSTEMS	18	7	7
Mtech	POWER ELECTRONICS	18	11	11
Mtech	VLSI	24	3	3
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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1343	239	110	29	5

## 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
144	144	34	29	2	9

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The students, based on their performance in internal (Mid examinations) and End semester examination, are categorized into fast, average and slow learners. The students are identified as per the above categories by following the process detailed below For slow learners, remedial classes are arranged for giving extra coaching in the courses find difficult by them. For average and fast learners, additional exercise problems from standard books and mini projects are given to further enhance their learning ability. Students' who have psychological problems due to family and surrounding environment are given frequent counselling to overcome their problems in order that they perform well in their academic pursuit. Type : Professional guidance Frequency : Once in semester ( at the semester start) Mentor : Senior faculty, industry person Procedure : Seminar training, mock test, involvement in the department activities such as class representatives, active participation in technical and non-technical clubs in the institute Type : Career advancement Frequency : Once in semester Mentor : Training and placement coordinator Procedure : Discussion on employment opportunities/higher studies/entrepreneur skill developments Type : Course work specific Frequency : Twice in a semester Mentor : Senior faculty Procedure : Discussion on improvement in knowledgebase based on the students course specific interest Type : Laboratory Frequency : Twice in a semester Mentor : Senior faculty Procedure : Improvement on the ability for excellence in real time execution of projects/experiments The Institution responds to the needs of the fast learners by:

- Providing E-Journal facilities in the library /Study material provided by NPTEL in the digital library and Internet facility etc.,
- Encouraging them to become members of professional societies and to take active part in the society activities.
- Providing incentives for publications in national / international conferences / journals.
- Permitting them to utilize the facilities available in RD centers in the institute related to their branch of study.
- Providing adequate opportunities for them to showcase their talents and motivating them to present their innovative ideas in exhibitions and technical competitions by suitable rewards.
- Providing them opportunities to exhibit their Leadership skills in academics and co-academics and extra-curricular activities.
- Motivating them to improve their presentation skills verbal non-verbal through Seminar presentations, Project presentation and inter – collegiate competitions

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1582	144	1:11

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
128	144	0	26	19

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. S. Baskaran	Associate Professor	Vels Deemed to be University, Chennai

2018	Dr. K. Mahalakshmi	Associate Professor	Anna University, Chennai
2018	Dr. D. Jayakumar	Associate Professor	St. Peters Institute of Higher Education and Research Deemed to be University
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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	05	I Year / II semester	01/06/2019	20/09/2019
BTech	04	I Year / II semester	01/06/2019	20/09/2019
BTech	03	I Year / II semester	01/06/2019	20/09/2019
BTech	02	I Year / II semester	01/06/2019	20/09/2019
BTech	01	I Year / II semester	01/06/2019	20/09/2019
BTech	05	I Year / I semester	17/11/2018	12/03/2019
BTech	04	I Year / I semester	17/11/2018	12/03/2019
BTech	03	I Year / I semester	17/11/2018	12/03/2019
BTech	02	I Year / I semester	17/11/2018	12/03/2019
BTech	01	I Year / I semester	17/11/2018	12/03/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Institute is affiliated to JNTUA University, anantapur and follows the Examination pattern of the university. The University guidelines are strictly adhered to with respect to evaluation process. There are two Internal tests conducted. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar which is prepared based on the university academic calendar. The institute has reformed the continuous internal evaluation system from faculty centric to student centric. The Institute Exam cell framed guidelines for conducting the CIE in line with calendar of the Affiliate University and the Institutions. As per the guidelines, the following reforms have been carried out effectively conducting CIE: • Scheduling of Internal Examination, Seating arrangements, hall invigilators listed for every examination. • Preparing the

question paper for the internal examination in the prescribed pattern based on Knowledge level using revised Bloom's taxonomy. • Scrutiny of the prepared question paper is carried out by HoD/ Program coordinator/ Subject expert to ensure quality of the Question paper. • Monitoring the attendance of the students for the Examination. • Internal Assessment has to be carried out within the stipulated time. • After completion of the internal examination, the faculty evaluate 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 also signature is obtained from each student in their blue books after verifying their marks. • Result review meetings are conducted with result analysis and the remedial actions for further improvements are arrived after discussion with faculty, HoD and Principal. The evaluation for laboratory courses are assessed in the similar pattern followed for theory courses. For each laboratory sessions, the student is assessed through viva questions, observations and the marks are registered in the index sheet and record notebooks. The evaluation for project course is assessed by conducting periodical project reviews covering key parameters like problem formulations , understanding of the project, presentation skills, communication of ideas , technical knowledge , team work and project management. Major project consists of 200 marks. The project review committee organizes review meetings to assess the progress of all the project batches.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The Academic calendar prepared by institute is based on University calendar of academic activities taking care of number of working days not less than the minimum (90 days) prescribed by AICTE and University. The Institute strictly adheres to the institute calendar also the university academic calendar for conduct of continuous internal examinations and external end examinations. The institute academic calendar comprises the following Commencement of classwork / semester End of semester Events scheduled Holidays planned Schedule of continuous internal exams Schedule of external end exams All the important days like yoga day, womens day, international women child day, etc. The academic calendar is strictly adhered.

## 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 in website of the institution (to provide the weblink)

<http://www.kec.ac.in>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BTech	Civil Engineering	39	34	87.18
02	BTech	Electrical and Electronics Engineering	34	18	52.94
03	BTech	Mechanical Engineering	48	45	93.75

04	BTech	Electronics and Communication Engineering	72	65	90.28
05	BTech	Computer Science and Engineering	87	68	78.16
43	Mtech	Power Electronics	4	4	100
15	Mtech	Machine Design	4	3	75
55	Mtech	Embedded systems	7	7	100
57	Mtech	VLSI	13	13	100
58	Mtech	Computer Science and Engineering	5	5	100
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.kec.ac.in>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Interdisciplinary Projects	365	DST New Gen IEDC 2017 2nd Year	47.5	47.5
Minor Projects	90	DST NIMAT FDP ON ENTREPRENEURSHIP	2.5	2.5
Any Other (Specify)	60	NCW - AWARENESS ON LEGAL RIGHT OF WOMEN	0.25	0.25
Any Other (Specify)	180	NCW - WOMEN IN SCIENCE AND TECHNOLOGY	2.5	2.5
Any Other (Specify)	180	MRD-IITM-NPTEL AWARENESS WORKSHOP	3	3
Interdisciplinary Projects	730	AICTE - PMKVY TI	28.75	8.63
Minor Projects	180	DST NIMAT	1	1

Major Projects	365	DST NIDHI START UP	10	7
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
ENTRENEURSHIP AWARENES CAMP	MECH	06/10/2018
ENTRENEURSHIP AWARENES CAMP	ECE	29/03/2019
ENTRENEURSHIP AWARENES CAMP	CSE	21/02/2019
ENTRENEURSHIP AWARENES CAMP	CE	29/03/2019
ENTRENEURSHIP AWARENES CAMP	EEE	29/03/2019
WORKSHOP ON IPR	ECE	10/01/2019
PROTOTYPE TO PRODUCT	ECE	29/09/2018
Session on Design And Analysis of Residential Building	CAREER DEVELOPMENT CELL	27/03/2019
Session on Role of Internet of Things in Future	CAREER DEVELOPMENT CELL	27/04/2019
Session on the Future of Robotics Technology	CAREER DEVELOPMENT CELL	20/04/2019
Awariness Program on Recent Trends in Manufacturing Technology	CAREER DEVELOPMENT CELL	25/03/2019
Awariness Program on Emerging Technologies in Software Industry	CAREER DEVELOPMENT CELL	04/04/2019
Session on Interior Design as a Career Choice	CAREER DEVELOPMENT CELL	21/03/2019
Awariness Program on Influential Trends in Electrical Engineering	CAREER DEVELOPMENT CELL	09/01/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
A TRUST AWARE SCHEDULING MECHANISM TO IMPROVE QUALITY OF SERVICE IN CLOUD	D. SUMATHI	ANNA UNIVERSITY	30/12/2018	Ph.D C.S.E
AN ENERGY	S. BASKARAN	VELS DEEMED	23/04/2019	Ph,D Mobile



EFFICIENT PROTOCOL BASED ON TRUST AND REPUTATION FOR MOBILE AD HOC NETWORK		UNIVERSITY		ad hoc network
VLSI COMBINED RADIX 2,4,8 SDF FFT DIF ALGORITHM	D. JAYAKUMAR	SR. PETERS DEEMED TO BE UNIVERSITY	20/11/2018	Ph.D, VLSI
CERTAIN INVESTIGATIONS ON SECURE ROUTING AGAINST MALICIOUS ATTACKS IN MOBILE AD-HOC NETWORK	K. MAHALAKSHMI	ANNA UNIVERSITY	01/07/2018	Ph.D ECE
SMART BINS	SANTHOSH, MOHAN	DST NIDHI	12/12/2018	best start-up Rs. 2 laths cash award
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start- up	Date of Commencement
NEW GENERATION IEDC	Santhosh B, Mohan	DST NIDHI	intellibin solutions pvt ltd.- SMART BIN	Hardware manufacturer	12/12/2018
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
8	0	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
ECE	2
CSE	1

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	E.C.E	8	Nill
International	C.S.E	4	Nill
International	EEE	2	Nill
International	MECH	1	Nill
International	M B A	2	Nill



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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
E.C.E	5
C.S.E	7
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Nill	Nill	Nill	2018	Nill	Nill	Nill
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A High Secure Data Transmission Through Video Files	S.Nanda Kishor	Jour of Adv Research in Dynamical Control Systems	2018	4	0	Kuppam Engineering College
Design of Non-Volatile Cache Memory Using Spin Orbit Torque MRAM and Schottky Diode	Santhosh B. Panjagal	International journal of scientific research in science, engineering and technology	2018	1	0	Kuppam Engineering College
Mitigation of Voltage sags using Grey Wolf optimization in the grids connected Energy Resources	Dr K.Ramesh	Bioscience biotechnology research communications.	2018	3	0	Kuppam Engineering College
	Dr	Internat	2018	3	0	Kuppam E

Automated Elephant Entry Prevention for Human and Crop Protection	K.Ramesh	ional journal of engineering technology				ngineering College
TRUST BASED CLUSTER-ENERGY EFFICIENT MULTICAST ROUTING IN MOBILE ADHOC NETWORKS	S. Baskaran	Appl. Math. Inf. Sci	2018	1	3	Kuppam Engineering College
MODELLING AND STATIC ANALYSIS OF FEMUR BONE BY USING CAE	SN NAGARAJ	IJSR	2018	0	0	Kuppam Engineering College
Online-offline multi-authority CPABE with decryption outsourcing	SUNEETHA Y	Nill	2018	0	0	Kuppam Engineering College
An Efficient and Scalable Auto Recommender System Based on Users Behavior	K PRAKASH	International Journal of Scientific Research in Computer Science and Engineering	2018	0	0	Kuppam Engineering College
PERFORMANCE MEASUREMENT OF INFORMATION HIDING USING POLYNOMIAL EQUATIONS	Dr. G.N. Kodanda Ramaiah	International Journal of Pure and Applied Mathematics	2018	6	0	Kuppam Engineering College
PERFORMANCE MEASUREMENT OF INFORMATION HIDING USING POLYNOMIAL	S.Nanda Kishor	International Journal of Pure and Applied Mathematics	2018	4	0	Kuppam Engineering College

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**3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :**

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	36	24	6
Presented papers	9	22	26	5
Resource persons	2	10	15	10
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**3.4 – Extension Activities**

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Clean campus programme	NSS	10	100
Independence day celebration	NSS	50	250
Teachers day celebration	NSS	40	150
Engineers day celebration	NSS	35	120
Gandhi Jayanthi celebration	NSS	20	80
Kalam birthday celebration	NSS	60	160
Awareness Programme on Cardiac arrest	NSS/PES	30	180
Constitution day	NSS	15	80
Ramanujan birthday celebration	NSS	28	180
National Youth day	NSS	30	110
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
BEST SERVICE IN FIELD OF RURAL EDUCATION	FIELD OF EDUCATION	GOVERNMENT OF ANDHRA PRADESH	Nil

NPTEL ACTIVE SPOC	ONLINE EDUCATION	NPTEL IIT MADRAS	40
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
JNTUA - NSS	NSS unit	Surveying agriculturle land	10	40
JNTUA - NSS	NSS unit	Programme on Gender equality	12	80
JNTUA - NSS	NSS unit	Awareness programme on Aids	18	150
Swachh Bharath	NSS unit	cleaning of Checkdam	10	40
JNTUA - NSS	NSS unit	voter Awareness Programme	25	125
JNTUA - NSS	NSS unit	Digital awareness campaign	20	100
Swachh Bharath	NSS unit	Tree Plantation Programme	15	120
JNTUA - NSS	NSS unit	Rally for soldiers martyrs of India	50	300
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### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
INTERNSHIP	3	0	15
INTERNSHIP	5	0	15
PROJECT WORK	5	0	30
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

PROJECT WORK	PROJECT WORK	TECHNOLOGICS GLOBAL P LTD	21/01/2019	22/02/2019	5
INTERNSHIP	INTERNSHIP	TECHNILAB INSTRUMENTS	04/02/2019	18/02/2019	5
HYDRO	INTERNSHIP	HYDRO KUPPAM	26/09/2018	13/10/2018	3
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
AIC-SKU Confederation, Sri Krishnadevaraya University Campus, Anantapur	08/02/2019	Technical / Innovation / Incubation and Entrepreneurial Activities	12
FINNLOGIC IT SOLUTIONS	06/12/2018	IT SOLUTIONS/ TRAINING	50
YOUNG MIND	15/02/2019	TRAINING	45
REDHAT	18/04/2017	SOFT SKILL TRAINING	35
PARIKSHA	09/06/2017	ONLINE TRAINING	243
APITA	27/07/2017	SOFT SKILLS AND TRAINING, PLACEMENT ACTIVITIES	140
CAREER PRIME	27/08/2018	SOFT SKILLS AND TRAINING, PLACEMENT ACTIVITIES	186
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#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
215	210.89

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing

Others	Existing
No file uploaded.	

## 4.2 – Library as a Learning Resource

### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Easylib	Fully	4.3.3	2009

### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	26605	8854634	291	184788	26896	9039422
Reference Books	6061	2052046	35	28452	6096	2080498
e-Books	320	30000	54	14250	374	44250
Journals	127	77410	0	0	127	77410
e-Journals	4425	573007	0	0	4425	573007
Digital Database	814	50000	3	1800	817	51800
CD & Video	1802	57200	70	1645	1872	58845
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### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
0	00	0	Nil
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## 4.3 – IT Infrastructure

### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	772	9	140	1	1	2	7	60	0
Added	0	0	0	0	0	0	0	80	0
Total	772	9	140	1	1	2	7	140	0

### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

140 MBPS/ GBPS
----------------

#### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Web contents	<a href="http://10.10.0.20/kec/index.php">http://10.10.0.20/kec/index.php</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
161	161	49	49

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Standard procedure has been framed for civil maintenance, laboratory, power supply, software up keeping, library. Civil Maintenance Civil works in-charge inspects the premises at regular intervals and identifies the problems and takes necessary action upon the complaints received from various departments subjected to degree of urgency of the problem. He checks whether all the water storage and sanitation systems are properly cleaned at regular intervals. On receiving the complaints through note from departments, problem will be identified and it is resolved using the expertise of skilled workers.

Laboratory maintenance Each Laboratory maintains an inventory register of equipment, instruments and machines available with the laboratory including basic description and purchase details. A unique number is assigned for every equipment / machines / instruments. Preventive Maintenance Lab in-charge prepares a list of equipment / machines and prepares a plan for preventive maintenance of the same to ensure smooth and uninterrupted functioning of equipment / machines. The preventive maintenance schedule contains the details of the parameters to be maintained with intervals for all the equipment / machines available with the laboratory. Breakdown Maintenance If the breakdown is minor in nature, the same is attended to by the technician attached to the department. If the breakdown is major, lab in-charge will initiate action to repair the same in shortest possible time through an external agency, after getting approval from the HOD. Calibration Lab-in-charge of each Laboratory prepares and maintains a list of meters, gauges and other measuring instruments and testing machines, which need periodical calibration. The Lab-in-charge in consultation with HOD scrutinizes the list to decide on the external and internal calibration of equipment. Every HOD scrutinizes all the Maintenance and Calibration records of the laboratory once in a month for updating, maintenance and calibration compliance. Computing its related equipments The maintenance of computers and common equipments is under the charge of in-house System Administrator and Officer-Administration respectively. Maintenance work includes, a) Installation b) Maintenance On receipt of the computers and equipments, the computer supplier takes up and completes the installation and after the performance test by the supplier, they are taken over by System Administrator / Officer-Administration. System Administrator / Officer-Administration makes necessary entry in the inventory register and allot a unique number to each equipment. The unit is allocated to lab. / Departments based on priorities and the same is installed in the section. service engineer visits the department and studies and records the exact nature of the problem and takes necessary action to solve the problem.

**CRITERION V – STUDENT SUPPORT AND PROGRESSION****5.1 – Student Support****5.1.1 – Scholarships and Financial Support**

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	BCN Society scholarship	670	6031750
Financial Support from Other Sources			
a) National	GOVT. OF AP-JNANA BHUMI	936	33894000
b) International	Nil	Nil	Nil
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**5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,**

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft Skills Workshop	09/07/2018	120	Andhra Pradesh Information Technology Academy (APITA)
Awareness Program on Campus recruitment	18/07/2018	250	Career Prime
Companies Specific Technical Skills and Employability Skills Requirement	10/08/2018	250	Qspiders
Companies Test Process Training	25/08/2018	50	VIT, Vellore
Companies Specific Training	28/08/2018	194	Career Prime
Campus Training program	04/10/2018	94	Qspiders
Companies Specific Training	11/11/2018	125	Talentio Solutions
Remedial coaching for I year	23/08/2018	130	KEC internal faculty
Remedial coaching for II, III AND IV year	18/09/2018	322	KEC internal faculty
Language lab-I for I Year	12/06/2018	379	KEC internal faculty
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**5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year**

Year	Name of the	Number of	Number of	Number of	Number of
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	scheme	benefited students for competitive examination	benefited students by career counseling activities	students who have passed in the comp. exam	students placed
2018	Soft Skills Workshop by Andhra Pradesh Information Technology Academy (APITA)	Nill	120	Nill	Nill
2018	Awariness Program on campus recruitment by Career Prime	Nill	250	Nill	Nill
2018	Wipro Specific Training by Talentio Solutions	Nill	125	Nill	Nill
2018	Qspiders - Campus Training	Nill	94	Nill	Nill
2019	Session on Innovation to Incubation & KEC Ideathon Contest	Nill	150	Nill	Nill
2019	Companies Specific Technical Skills and Employability Skills Requirement by QSpiders, Bengaluru	Nill	250	Nill	Nill
2019	TCS Test Process Training	Nill	50	Nill	Nill
2019	TCS Ninja Specific Training by careerPrime	Nill	194	Nill	Nill
2019	TCS Ninja - Mock Interview	Nill	10	Nill	Nill
2019	Designing	Nill	80	Nill	Nill

Contest by  
CAD Center,  
Bangalore

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	15

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
TWENTY ORGANISATIONS	369	157	seven organisations	360	20
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	B.TECH	CSE	KUPPAM ENGINEERING COLLEGE	M.TECH -CSE
2018	1	B.TECH	CSE	JNTUA	M.TECH -CSE
2018	7	B.TECH	ECE	KUPPAM ENGINEERING COLLEGE	M.TECH-VLSI
2018	2	B.TECH	ECE	KUPPAM ENGINEERING COLLEGE	MBA
2018	1	B.TECH	CIVIL	GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING	M.TECH-STRUCT.
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	4
Any Other	8
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
SHUTTLE BADMINTON	UNIVERSITY LEVEL	300
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### 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)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	BADMINTON	National	1	Nill	16F41A0580	ELIZABETH
2018	BADMINTON	National	1	Nill	15F41A0436	RAVI KARTHIK
2018	FOOTBALL	National	1	Nill	16F41A0406	K S AKSHAY
2018	FOOTBALL	National	1	Nill	18545A0316	P GANESH KUMAR REDDY
2018	FOOTBALL	National	1	Nill	16F41A0203	AMAL JYOTHI
2018	FOOTBALL	National	1	Nill	16F41A0205	K S BISMIN
2018	FOOTBALL	National	1	Nill	17F41A0560	T B MAHIN
2018	FOOTBALL	National	1	Nill	17F41A0214	P G MEGHARAJ
2018	FOOTBALL	National	1	Nill	17F41A0217	M PRANAV
2018	FOOTBALL	National	1	Nill	17F41A0536	EBIN JACOB
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Students have active representation on academic and administrative bodies and committees of the Institute. Class Committees All programmes have class committees for each course that comprise of student members representing meritorious as well as average and weak students. The Class Committees provide feedback on all aspects of the programme and respective course. Class Committee Meetings are held regularly, at least twice in each semester. Cultural and Sports Committees Students have strong representations in all cultural and sports and games committees and help in organization and management of events. Hostel Administration Students provide strong support in the administration and management of hostel affairs. Organization of Special Events Students organizes, and celebrates the National Teachers Day, on Sept. 5, every year by honoring teachers and presenting cultural programme. And other National celebrations that include, Independence Day, Republic Day, Engineers Day, Science Day and various NSS and social service activities.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

918

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

ALUMNI MEET 2K19 CONDUCTED ON 02/02/2019

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization: Practice-1: Department Association All the departments of the institution have established student councils which are termed as department associations. These student councils are run by the students and a teacher mentor is allotted to supervise the planned activities. Student Association activities are planned for student development and to cater to the co-curricular and industry needs. The benefit of lies in meeting diversified needs of the students based on their Program of study. Activities are planned at the beginning of the academic year and implemented accordingly. A faculty member is nominated as the faculty representative to guide the activities along with student representatives chosen from the different programs offered by the department. Practice-2: Formation of various committees in college level. Various committees were formed and delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. College Academic Committee (CAC) To implement the university norms and policies and decisions of management Preparation of Academic calendar Review of the syllabus coverage Entrepreneurship Development Cell (EDC) To provide a support system for technocrats and entrepreneurs Ability Skills to promote self-employment and develop entrepreneurship among students as an attractive and viable career option. Research Advisory Committee (RAC) Development of in house projects Interaction with industry for consultation projects Establishment of Incubation centers / Center of excellence Applying for proposals and Research Grants Effective utilization of Center of excellence. Professional Bodies/ Chapters Membership Motivating all the staff and students to be member of the ISTE/IE/CSI Planning, preparing and sending proposals to various professional societies such as ISTE/CSI, etc, for obtaining their grants/permissions etc., Organizing and conducting student's chapter activities programmes effectively. Internal Quality Assurance Cell (IQAC) Preparation of quality manual and procedures for Quality improvement of the college Coordinating with ALL committees for smooth functioning. Arrangement of internal audit review of effectiveness of quality system Verification of academic documents Anti - Ragging Committee To maintain discipline in the campus and to ensure the implementation of guidelines/ order issued by AICTE/UGC/University/Govt. in order to prevent ragging in the Campus Implementation of the decision of enquiry committee Career Development Cell (CDC) Preparation and maintenance of student databases Training in soft skills, aptitude, technical and communication skills.(using the internal faculty members) Mock interviews to students to face the interview Grievances Redressal Cell (GRC) Students: Faculty: Women Empowerment Cell (WEC) Educate the staff (Teaching and Non-

Teaching) and the students' community towards gender sensitization. Provide helpline and helpdesk counseling service for both hostellers and day scholar  
 Staff Selection Notification of vacancy position Scrutinizing applications received Conduct of interview Issue of appointment / relieving orders  
 Maintenance of Academic buildings, Hostel Guest House Electrical repair works, mason works All other maintenance works in the campus Maintenance of guest house, seminar hall, conference room

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	Industry Advisory Boards are being formulated in the departments to facilitate Industry-Institute interaction for the benefit of all the stakeholders Statutory bodies of the institution involve Industry representatives in its Internal Quality Assurance Cell and Governing Body. KEC NewGen IEDC has a mission to "Promote knowledge-based and technology-driven start-ups by connecting young minds and their innovation potential in an academic environment". KEC signed MOU with the industries for the embellishment of startups and incubation center.
Research and Development	Faculty members are encouraged to attend training programs in advanced technologies with financial support. Research centers are established to carryout research in specific projects funded by management of the institution to inculcate research culture. The NewGen IEDC cell encourage students and faculty members to develop the project model with the maximum funding of Rs. 2.5 Lakhs. Each year around 15-20 projects are converted as models.
Teaching and Learning	Student feedback on teaching-learning is a quality practice followed across all the programs and every student provides feedback on the teacher and the teaching-learning practices. Teaching skills are improved among faculty members through Faculty development programs on pedagogy. Events/ Programs on pedagogy are conducted for Young faculty members to improve their teaching skills. Modern Teaching methods are adopted to improve student learning outcomes. The best practiced models are submitted to the

	Chairman, IQAC and they are reviewed for Institutionalization of the practices. Blooms taxonomy is used to assess student learning. Well-defined rubrics are designed for different curricular components to evaluate the attainment of the Course and the Program level outcomes.
Curriculum Development	The Kuppam Engineering College is affiliated to JNTUA and program curriculum is as per the scheme and syllabi of affiliated university. Generally, Curriculum maintains the balance in the composition of foundation courses, core courses, elective courses, interdisciplinary courses, project work and technical seminar. All the programs offered by the departments/institution are in-line with the principles and concepts of Outcome Based Education (OBE). As per OBE, Program Educational Objectives, Program Outcomes as per graduate attributes, Program Specific Outcomes and Course Outcomes are appropriately framed along with the program curriculum for the assessment of student learning outcomes.
Human Resource Management	Faculty members are encouraged to attend training programs in advanced technologies with financial support. Research centers are established to carryout research in specific projects funded by management of the institution to inculcate research culture. The NewGen IEDC cell encourage students and faculty members to develop the project model with the maximum funding of Rs. 2.5 Lakhs. Each year around 15-20 projects are converted as models.

#### 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	Logins of HODs of Kuppam engineering college can edit the profile of his department students Generate readmission order when detained student is promoted. ERP automation supports students from the process of registration/admission upto the process of providing provisional certificate and Consolidate Marks Memo. Mentor-Mentee Module-conducting recording of counseling sessions, update mentee co-curricular and extracurricular participation details. Applying for transportation facility and payment of

	<p>fee. Sending SMS/Email regarding student attendance details to parents. Students can view their daily attendance report as well the consolidated report.</p>
Administration	<p>Employers Role module- creation of roles, assigning roles, removal of roles Payroll, leave management for all the faculty members are undertaken through ECAP ERP. Day-today office administration for approvals, recommendations are undertaken though the same. Work flow management-setting workflows for different activities. Faculty members apply for different leaves through the software. Communication module- sending circulars, messages, notes are also supported.</p>
Planning and Development	<p>Prospective plan for the institution is formulated. Accordingly, strategic plan for the institution and individual departments is prepared to meet the perspective plan. Annual Operating plan activities of the institution and the departments which are formulated in accordance with the academic plan is uploaded in ECAP- ERP at the start of the academic year.</p>
Finance and Accounts	<p>Updating Employee Leave information and processing of student tuition fees, hostel payment fees, Stock and inventory, approval, stock issue, purchase order, Online education verification module-back ground verification requests, online payment are supported</p>

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr.G.N.Kodandaramaiah	Nill	INSTITUTE OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS	9440
2018	Mr. SARTAJ PATEL	Nill	INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME)	2000
2018	Mr. NAVEEN KUMAR	Nill	INDIAN SOCIETY OF	2000

			MECHANICAL ENGINEERS (ISME)	
2018	Mr. NAGESH.N	Nill	INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME)	2000
2018	Dr. P. PALANI SWAMY	Nill	INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME)	2000
2018	Dr. VIJENDRA KUMAR	Nill	INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME)	2000
2018	Mr. K. GANESH	Nill	INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME)	2000
2018	Mr.K.Nagaraju	Nill	INDIAN CONCRETE INSTITUTE	10620
2018	Mr.L.Ravikumar	Nill	INDIAN CONCRETE INSTITUTE	8260
2018	Dr.K.Rasadurai	Nill	INSTITUTE OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS	8260
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Nill	Nill	Nill	Nill	Nill	Nill
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):



Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
144	144	81	81

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Conference Participation /Publication incentive /Patent Rights Publications / Books</p> <p>2.Financial assistance to attend FDP 3. Paid leave for Ph.D. Scholars 4. Free quarters for faculties 5. Subsidized transportation 6. Paid Maternity leave 7. Loan without interest</p>	<p>1. Admission Fee concession for their wards in the school and college 2. EPF ESI -statutory benefits to the eligible 3.Free transportation for Administrative Staff 5.Festival bonus during Diwali 6. Free lunch in the college canteen</p>	<p>1. To encourage the students, management is pleased to announce the following incentives and rewards for students college toppers 2.The university topper will be awarded a cash price. 3. They will be provided additional books from library 4. There will be a best student award department wise 5. There will be free and subsidized add-on skills programs as per industries requirements 6. Free hostel accommodation to financially poor students</p>

#### 6.4 – Financial Management and Resource Mobilization

##### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institution conducts internal and external financial audits regularly. Audit is conducted by the Auditor appointed by the Governing Body of the College and approved by the JNTUA Anantapur.

##### 6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		
No file uploaded.		

##### 6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

#### 6.5 – Internal Quality Assurance System

##### 6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	JNTUA	Yes	IQAC
Administrative	Yes	JNTUA	Yes	IQAC

##### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

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Parents' meet is organized as a quality practice by the institution annually.

Every year parents week is organized to meet the parents that give the convenience to the parents to meet the officials of the department and college during the week. Parent - Teacher Association helps in the following aspects.

- a. Continuous monitoring of students and provide feedback on their performance
- b. Faculty members understand the aspirations of parents from their wards and guide them through effective counselling of students based on their performance and encourage them accordingly to ensure stakeholders satisfaction.
- c. Parents can understand the functioning and the facilities or services available for student welfare at the institution.
- d. Feedback from parents is obtained and analyzed for the further improvement of the system.

#### 6.5.3 – Development programmes for support staff (at least three)

Institution organizes training programs and workshop to enhance their capabilities and facilitate better support in administration activities and in academic laboratories. Following are a few activities in this regard. A two days FDP on professionalism and its challenges was conducted for the faculty members in two phases 1415-07-2018 and 2123-07-2018. Also faculty members were encouraged to attend the programs held at UGC Hyderabad and Bhrathiar university, Coimbatore.

#### 6.5.4 – Post Accreditation initiative(s) (mention at least three)

Institution organizes training programs and workshop to enhance their capabilities and facilitate better support in administration activities and in academic laboratories. Following are a few activities in this regard. A two days FDP on professionalism and its challenges was conducted for the faculty members in two phases 1415-07-2018 and 2123-07-2018. Also faculty members were encouraged to attend the programs held at UGC Hyderabad and Bhrathiar university, Coimbatore.

#### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

#### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	<b>IQAC Meeting</b>	21/07/2018	01/08/2018	30/04/2019	14
2019	<b>IQAC Meeting</b>	29/12/2018	01/01/2019	31/05/2019	16
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### CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

#### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male

Orientation to Girl students/ Women on Women Empower Cell and its significance	18/07/2018	18/07/2018	150	0
Nationwide competition to create awareness about legal rights of women	03/11/2018	03/11/2018	80	50
Kishori Vikasam Phase-II	28/12/2018	29/12/2018	60	40
Grievance Redressal Complaint Boxes under Nirbhaya act has been launched in KEC premises by DSP Mr.N.YUGANDHAR BABU	30/01/2019	30/01/2019	44	0
Woman's Day	08/03/2019	08/03/2019	150	0

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
350 KVA solar panels were installed in roof top to reduce the conventional energy. Solar water heaters were installed in the roof top of both boys and girls hostels. Solar water heaters were installed in the college mess which reduces the cooking gas consumption.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Ramp/Rails	Yes	2
Braille Software/facilities	Yes	0
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	23/11/2018	1	Futuristic Oppor	Digital Literacy	80

					tunities of Digital Literacy		
2018	1	1	05/12/2018	1	Awareness on Higher Education	Importa nce of Higher Education and Path after X or SSC	100
2018	1	1	10/12/2018	1	Awareness on Higher Education	Importa nce of Higher Education and What to do after Int ermediate	150
2018	1	1	17/12/2018	1	Awareness program on "Personal Hygiene"	Importa nce of Personal Hygiene	100
2019	1	1	03/01/2019	1	Awareness on "Child Labour"	Importa nce of Education	150
2019	1	1	19/01/2019	1	Awareness on "Water Conservat ion"	Water Scarcity and Impor tance of Water	100
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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
SERVICE BOOK	01/02/2018	Hand book on service rules was published and made available in all the departments and sections for the reference for all staff members of the college.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Ethical Considerations in Corporate Valuations	16/08/2018	16/08/2018	120
Ethical Considerations in	17/08/2018	17/08/2018	120

Corporate Valuations			
Founder's Day	27/12/2018	27/12/2018	250
Leadership Skills for Civil Engineers	21/01/2019	21/01/2019	50
Leadership Skills for Mechanical Engineers	07/02/2019	07/02/2019	50
<a href="#">View File</a>			

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

• Installation of Solar Panels to explore new renewable energy sources 350 KVA solar panel was installed to reduce the consumption the conventional energy resources. • Plastic-free environment • Rain Water Harvesting structures • Green landscaping with trees and plants • Waste management which includes Solid waste management ,Liquid waste management, E-waste management • Installed solar water heater for hostels • A small section of non-teaching staff use bicycles for mobility within the campus and nearby • A large number of faculty and students of the institution use the transport provided by the management. • A small section of the students and staff use public transport also. • The campus possesses well laid roads which are friendly to the inmates of the campus. • Vehicles are parked away from the academic buildings to reduce the sound and air pollution. • Automation of the entire academic and administrative practices are underway which shall reduce the use of paper. • Different types of dustbins are provided on campus to collect the plastic for careful disposal. • The entire campus is well maintained with a rich collection of trees and plants that make the environment carbon dioxide free and to maintain inmates good health. • The campus is enriched with greenery of 35 of total area which includes landscapes with grass, bushes, trees and ornamental trees by maintaining biodiversity. • Energy Efficient electronic gadgets like 5 rated air conditioners are used and maintained regularly. • Unwanted usage of power is discouraged in Institute

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

The NSS units along with the volunteers conduct the orientation to the children's junior colleges and schools in Kuppam constituency. The rural background students are enabled good knowledge to take decision on their career and higher education. Also the college conducts one month training program for the students on Govt. vocational junior college, which helps them to gain the hands on experience with the latest equipment. Developed "VAJRAPAAT -Android APP" for warning of Lightning Strikes by our college with the courtesy of APSCH ISRO, Srihari Kota. This app proactively alerts people on severe weather occurrences happening within their close proximity. This proactive alerting will help ensure the wellbeing of all such app consumers. The app covers the entire state of Andhra Pradesh. Andhra Pradesh Severe Weather Alert app proactively notifies users of hazardous weather conditions and helps them protect their well being in a timely manner. Andhra Pradesh Severe Weather Alert app also alerts alternate POC of the user so they also are aware of the mobile users location and the weather condition the user is encountering.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.kec.ac.in>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vision of the Institution to produce the graduates with is to high ethical values for the socio-economic development of the rural society of our nation. The institutive moulds and empowers students in the pursuit of knowledge, values and social responsibility and help them achieve excellence in various fields, thereby also preparing them to face global challenges. The institute provides a platform to business Start-ups to develop their ideas into commercially viable products through newgenIEDC. The College emphasizes the need to mainstream the marginalized and weaker sections of students to ensure justice and equity in society. The Mission is to steer the education it offers not only towards the pragmatic goal of employability, but also to build a life of the mind and sensitize and orient its students to the service of the community. All the departments in KEC have started Student Technical Associations, which are associated with professional bodies. The activity envisaged under this includes skill-oriented programs and activities inclined towards service to the society with social ethical values. Student Clubs: To develop multi-disciplinary skills among students, KEC has established student clubs like App Development Club, sports Club, Robotic Club, Web Application Development Club and coding Club. They strive to inculcate the attitude, orientation and skills essential for developing socially relevant and feasible products.

Provide the weblink of the institution

<http://www.kec.ac.in>

### 8.Future Plans of Actions for Next Academic Year

To strive to work for NIRF rankings To obtain NAAC Accreditation To obtain NBA Accreditation for other UG and PG courses Strengthen the existing center of Research Improving industry academic partnership