



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		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
2. Institutional Status		

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

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.kec.ac.in/wp-content/uploads/2019/01/AQAR-2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.kec.ac.in

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.30	2014	21-Feb-2014	20-Feb-2019

6. Date of Establishment of IQAC	02-Dec-2013
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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
Initiative for Roof treatment of college building	01-Jun-2019 60	1500
Initiative to attend the	01-Jul-2019	120

smart india Hackathon	180	
Extending the wifi in the campus	01-Aug-2019 0	1500
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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
INSTITUTION	NEW GEN IEDC	DST NIMAT	2017 365	6000000
E.C.E DEPT.	MODROB	AICTE	2019 730	1636000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
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 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)

Orientation for NAAC new regulations

Conduct of OJT training for the vocational college students

Orientation and induction program for all first year students

The Institute participated in NIRF

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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	Achivements/Outcomes
Academic calendar is prepared and implemented	Implemented
Orientation for faculty on new teaching-learning methods.	Conducted and sponsored the faculty members to attend the training
Formation of research clusters for promoting inter disciplinary research and entrepreneurship.	Conducted awareness programs and developed prototypes
Thorough implementation of OBE principles	Various orientation programs conducted and implemented the OBE process
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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-Feb-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 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 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: The students are encouraged to go for

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
Training Programme on Data Science with Python	Nil	02/08/2020	5	Yes	Nil
Amazon Web Services (AWS) With the support of APSSDC	Nil	16/09/2019	7	Yes	Nil

TRANING PROGRAM ON REACT FRAME WORK	Nil	03/02/2020	7	Yes	Nil
Training Programme On Designing IOT Application Development	Nil	23/09/2019	6	Yes	Nil
Training Programme on Immersive Technologies -AR/VR	Nil	25/05/2020	5	Yes	Nil
Introduction to Data Visu alisation and Machine Learning using Python	Nil	10/12/2020	6	Yes	Nil
Training Programme on Arduino Programming	Nil	20/01/2020	6	Yes	Nil
The complete iOS 10 Developer- Real Apps in Swift 3	Nil	16/01/2019	9	Yes	Nil
Tech Explorations Arduino step by step getting Serious	Nil	16/01/2019	6	Yes	Nil
Introduction to Machine Learning	Nil	09/07/2019	10	Yes	Nil
Awareness programme on solar water pumping system	Nil	16/01/2019	7	Yes	Nil
MANUFACTUR ING (CNC)FOU NDATION	Nil	02/02/2019	20	Yes	Nil
CAE	Nil	05/08/2019	20	Yes	Nil
ORGANIC Solar CELL	Nil	09/05/2019	15	Yes	Nil

PRINTED CIRCUIT BOARD DEVELOPMENT	Nil	24/06/2019	22	Yes	Nil
HANDS ON TRANING MOTOR ASSEMBLING AND DISMANTELING	Nil	08/07/2019	10	Yes	Nil
ETAP SOFTWARE	Nil	08/01/2018	30	Yes	Nil
Certified program on Advanced Excel	Nil	17/07/2019	30	Yes	Nil
Quality control in Building Construction	Nil	06/01/2020	30	Yes	Nil
Material testing as per Indian Standards	Nil	03/11/2020	30	Yes	Nil
TOTAL QUALITY MANAGEMENT	Nil	23/09/2019	15	Yes	Nil
SUPLY CHAIN MANAGEMENT	Nil	22/10/2019	22	Yes	Nil
DATA ANALYSIS	Nil	11/11/2019	10	Yes	Nil
PRODUCTION OPERATION MANAGEMENT	Nil	23/12/2019	30	Yes	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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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
BTech	MECHANICAL ENGINEERING	01/07/2015
BTech	CIVIL ENGINEERING	01/07/2015
BTech	COMPUTER SCIENCE ENGINEERING	01/07/2015

BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	01/07/2015
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	01/07/2015
Mtech	MACHINE DESIGN	01/07/2017
Mtech	POWER ELECTRONICS	01/07/2017
Mtech	VLSI	01/07/2017
Mtech	EMBEDDED SYSTEMS	01/07/2017
Mtech	COMPUTER SCIENCE AND ENGINEERING	01/07/2017
MBA	MBA	01/07/2017

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

	Certificate	Diploma Course
Number of Students	1278	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 Networking and Ethical Hacking	13/07/2019	36
Simulation and analysis of Networks using software(NS-2)	17/08/2019	42
Seminar on Machine Learning Algorithms	10/07/2019	40
Seminar in Network Engineering-Routing Switching	26/10/2019	45
Android Application Development in Mobile Phone Technology	16/09/2019	47
Seminar on Big Data Analytics	23/12/2019	40
Hands on Training to built data Warehouse explore WEKA	21/09/2019	50
ROBOTICS FUTURE TECHNOLOGY	21/09/2019	38
PLC SCADA WITH DRIVE	27/09/2019	41
MATLAB AND SIMULINK FOR ELECTRICAL ENGINEERS	10/02/2019	35
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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
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BTech	COMPUTER SCIENCE AND ENGINEERING	58
BTech	COMPUTER SCIENCE & ENGINEERING	35
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	4
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	4
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	4
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	4
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	102
MBA	MASTER OF BUSINESS ADMINISTRATION	10
BTech	MECHANICAL ENGINEERING	45
BTech	MECHANICAL ENGINEERING	80
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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)

<p>Feedback Obtained</p> <p>Feedback is regularly collected and analyzed from the various stakeholders like</p> <ul style="list-style-type: none"> • Students • Alumni • Parent • Employer • Teachers <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"> • The newly joined inexperienced staff members are given an orientation lecture for effective teaching by them. • 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. • 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. • 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. Impact Analysis: The following are the positive outcomes observed after adopting the above mentioned Teaching and Learning Process:

- Improved teaching capability of the staff members.
- Improved ambience for teaching and learning.
- Improved attendance of students.
- Improvement in academic performance by students.
- Active participation of students in competitive exams.
- Exposure to latest developments in their technological areas.
- Improved thinking capability for participation in project exhibition/ technical events conducted by other institutions.
- Improvement in the students' analytical abilities resulting in better placements.
- Appreciation from the management and parents.

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 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	ELECTRONICS AND COMMUNICATION ENGINEERING	120	81	81
BTech	COMPUTER SCIENCE AND ENGINEERING	120	120	120
BTech	CIVIL ENGINEERING	60	19	19
BTech	MECHANICAL ENGINEERING	60	17	17
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	120	10	10
Mtech	COMPUTER SCIENCE AND ENGINEERING	18	16	16
Mtech	MACHINE DESIGN	18	10	10
Mtech	EMBEDDED SYSTEMS	18	3	3
Mtech	POWER ELECTRONICS	18	5	5

Mtech	VLSI	24	7	7
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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
2019	1302	254	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
1556	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
119	144	Nil	28	20

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. C. G. Saravanan	Associate Professor	Bharathiar University, Coimbatore
2019	Dr. S. Nanda kishor	Associate Professor	Jain Deemed to be University
2019	Dr. S. Thulasi Krishna	Associate Professor	Royalaseema University, Kurnool
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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	10/06/2020	06/10/2020
BTech	04	I Year / II semester	10/06/2020	06/10/2020
BTech	03	I Year / II semester	10/06/2020	06/10/2020
BTech	02	I Year / II semester	10/06/2020	06/10/2020
BTech	01	I Year / II semester	10/06/2020	06/10/2020
BTech	05	I Year / I semester	10/01/2020	20/05/2020
BTech	04	I Year / I semester	10/01/2020	20/05/2020
BTech	03	I Year / I semester	10/01/2020	20/05/2020
BTech	02	I Year / I semester	10/01/2020	20/05/2020
BTech	01	I Year / I semester	10/01/2020	20/05/2020
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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)

www.kec.ac.in

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the	Number of students passed in final year	Pass Percentage
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			final year examination	examination	
01	BTech	Civil Engineering	33	32	96.97
02	BTech	Electrical and Electronics Engineering	30	23	76.67
03	BTech	Mechanical Engineering	46	35	76.09
04	BTech	Electronics and Communication Engineering	78	59	75.64
05	BTech	Computer Science and Engineering	93	80	86.02
43	Mtech	Power Electronics	6	6	100
15	Mtech	Machine Design	3	2	66.67
55	Mtech	Embedded systems	6	6	100
57	Mtech	VLSI	3	2	66.67
58	Mtech	Computer Science and Engineering	4	4	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)

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
Major Projects	730	AICTE - MODROB	16.36	13.08
Interdisciplinary Projects	365	DST NEWGEN IEDC	60	60
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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
IMPORTANCE OF INNOVATION INCUBATION BUSINESS PLAN AND STARTUP ECO SYSTEM FOR RURAL DEVELOPMENT	ECE	23/01/2020
Session on Career Opportunities in Renewable Energy Sector	career development center	07/01/2020
Awarness Program on Scope of Android Application Development	career development center	22/12/2020
Session on Significance of Nanotechnology in Construction Engineering	career development center	16/11/2019
Session on Trends Shaping the Future of Manufacturing	Career Development Center	24/10/2019
Awareness Program on Future Software Development Technologies	Career Development Center	06/02/2019
Session on Recent Inventions in the Electrical Engineering Industry	Career Development Center	09/01/2020
Session on Role of Computer Networking Professionals in IT Industry	Career Development Center	04/02/2020

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
Developing a hybrid algorithm for Secure data transmission through multimedia	S. NANDA KISHOR	JAIN DEEMED UNIVERSITY	26/08/2019	Ph.D E.C.E
Utilisation of electronic information resources by the faculty members in NAAC accredited Engineering Colleges in Andhra Pradesh	C G SARAVANA	BHARATHIAR UNIVERSITY	02/07/2019	Ph.D
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation	Name	Sponsored By	Name of the	Nature of Start-	Date of
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Center			Start-up	up	Commencement
0	0	0	0	0	Nil
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
9	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
E.C.E	1
H.A.S	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	4	Nil
International	C.S.E	9	Nil
International	C.E	9	Nil
International	E.E.E	18	Nil
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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
C.S.E	4
E.C.E	2
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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
No Data Entered/Not Applicable !!!						
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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
AN EFFICIENT APPROACH FOR SOCIALLY	D Sumathi R Bhavani	Journal of Emerging Technologies and	2019	2	Nil	Kuppam Engineering College

MOTIVATED RESOURCE SHARING		Innovative Research				
A SURVEY ON TRANSFER LEARNING FRAMEWORK FOR DATA SETS USING SEMI SUPERVISED LEARNING	D Sumathi S Balaji Dr G Vasanth	Journal of Emerging Technologies and Innovative Research	2019	2	Nil	Kuppam Engineering College
RANK BASED ENERGY EFFICIENT PROTOCOL FOR MANET RBEE	S Baskaran and K Logesh	Biosci Biotech Res Comm	2019	1	Nil	Kuppam Engineering College
MANAGING PRODUCT-DISCOUNTS USING LOWER BOUND APPROXIMATION ALGORITHM	D Sumathi C Vineeth Kumar K Satish Kumar K Kavya BM Lakshmi pathi	JETIR	2019	2	Nil	Kuppam Engineering College
MANAGING PRODUCT-DISCOUNTS USING LOWER BOUND APPROXIMATION ALGORITHM	D Sumathi C Vineeth Kumar K Satish Kumar K Kavya BM Lakshmi pathi	College conference	2019	2	Nil	Kuppam Engineering College
THE REMOTE HEALTH MONITORING SYSTEM WITH WIRELESS SENSOR AND IOT THROUGH MULTIVARIATE MEDICAL DATA	Dr D SUMATHI Dr SMITHA CHOWDARY CH	IN Patent App. 201 941 044 768	2019	2	Nil	Kuppam Engineering College
Optimal path Planning for Node Localization	R Kavi Priya	JETIR	2019	Nil	Nil	Kuppam Engineering College

n Using BAT and GWO Optimization Techniques: A Comparative study						
Privacy Preserving-Biometric Identification Scheme Over Cloud Encrypted Data	R Kavi Priya	JETIR	2019	Nil	Nil	Kuppam Engineering College
Understanding Green IoT: Research Applications and Future Directions.	N Meghashree R Girija D Sumathi	JETIR	2019	Nil	1	Kuppam Engineering College
Efficient facial recognition system using LBP technique	P AJAY KUMAR REDDY Dr G N Kodanda Ramaiah	International Journal of Recent Technology and Engineering	2019	Nil	2	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	2	15	10	11
Presented papers	4	10	12	9
Resource persons	1	12	16	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
Teachers day celebration	NSS	35	125
Independence day celebration	NSS	40	180

Republic day celebration	NSS	40	160
National Youth day	NSS	25	150
Ramanujan birthday celebration	NSS	30	190
Constitution day	NSS	20	110
Clean campus programme	NSS	20	120
Kalam birthday celebration	NSS	45	135
Gandhi Jayanthi celebration	NSS	30	100
Engineers day celebration	NSS	45	155
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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
NPTEL LOCAL CHAPTER	NPTELS BRAND AMBASSADOR	NPTEL IIT MADRAS	50
No file uploaded.			

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	Yoga day Celebration	50	300
Swachh Bharath	NSS unit	Rally on water conservation	15	120
JNTUA NSS	NSS unit	Digital awareness	20	100
JNTUA NSS	NSS unit	Literacy Awareness	15	140
Swachh Bharath	NSS unit	clean India drive	10	40
JNTUA NSS	NSS unit	Rastriya Ektha Diwas	18	150
JNTUA NSS	NSS unit	Awareness programme on Aids	12	80
JNTUA NSS	NSS unit	Human Rights Day	10	40

JNTUA NSS	NSS unit	Programme on Gender equality	15	100
JNTUA NSS	NSS unit	Voters day	15	110
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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
Training	5	Internal	10
TECHNOLOGY TRANSFER	22	Internal	180
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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
TECHNOLOGY TRANSFER	HOW TO MAKE YOUR BIKE SMART	ASAHI DENSO	26/07/2019	20/03/2020	22
RESEARCH	MICROWAVE LAB INSTALLATION AND INTERNSHIP	TECHNILAB INSTRUMENTS	01/08/2019	24/07/2021	60
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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
STRYDO TECHNOLOGIES	20/01/2020	INTERNSHIP / TRAINING	95
TECHNILAB INSTRUMENTS	25/07/2019	TRAINING AND INTERNSHIP	60
REDHAT	18/04/2018	ONLINE TRAINING AND SOFT SKILLS	30
APITA	27/07/2017	PLACEMENT AND SOFT SKILL TRAINING	300
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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
270	263.8

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
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	26896	9039422	215	129289	27111	9168711
Reference Books	6096	2080498	46	24845	6142	2105343
e-Books	374	44250	41	1485	415	45735
Journals	127	77410	Nil	Nil	127	77410
e-Journals	4425	573007	Nil	Nil	4425	573007
Digital Database	838	51800	21	1587	859	53387
CD & Video	1872	58845	48	1542	1920	60387
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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
Venkob Rao	Transportation Engineering-II	Learning Management system - Institution Level	08/02/2019
R. Mytheli	Design Thinking	Learning Management system - Institution Level	08/02/2019
K. Peddulaiah	Engineering	Learning	08/02/2019

	Chemistry	Management system - Institution Level	
M. Gopala krishnan	Thermal Engineering	Learning Management system - Institution Level	08/02/2019
Dr. K Rasadurai	Antennas and Wave propagation	Learning Management system - Institution Level	08/02/2019
Y. Ramachandran	Human Resource Management	Learning Management system - Institution Level	08/02/2019
Dr. K. Logesh	Computer Networks	Learning Management system - Institution Level	01/10/2020
Dr. V. Govindarajalu	Communicative English	Learning Management system - Institution Level	01/10/2020
V.S.Satheesh	Finite Element Methods	Learning Management system - Institution Level	01/10/2020
S.N. Nagaraj	Computer Aided Drafting	Learning Management system - Institution Level	01/10/2019
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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	140	0
Added	0	0	0	0	0	0	0	0	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	http://10.10.0.20/kec/index.php

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
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221

221

42

42

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.

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

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	338	2951000
Financial Support from Other Sources			
a) National	JAGANANNA VIDYA DEEVENA	882	40894400

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
Bridge courses for II year	08/07/2019	180	KEC internal faculty
Bridge courses for I year	01/06/2019	208	KEC internal faculty
Language lab-II for I Year II sem	17/12/2019	365	KEC internal faculty
Language lab-I for I Year	10/06/2019	137	KEC internal faculty
Remedial coaching for II, III AND IV year	16/09/2019	291	KEC internal faculty
Remedial coaching for I year	26/08/2019	184	KEC internal faculty
Companies Specific Training	09/10/2019	110	Mission Ignite
NQT Specific Training	27/07/2019	120	Mission Ignite
Companies Specific Employability Skills Training	08/07/2019	120	Mission Ignite
Companies Specific Training	24/06/2019	120	Mission Ignite
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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 scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	National Level Test Specific Internal Training for Programming skills by CDC, KEC	Nil	120	Nil	Nil
2019	TCS NQT Specific Training by	Nil	120	Nil	Nil

	Mission Ignite, Bangalore.				
2019	Presentation Session on Cocubes Recruitment Pattern by Cocubes Technologies Pvt. Ltd.	Nil	100	Nil	Nil
2019	Awareness Program on Employment Opportunities in Japan for Engineering Graduates by Knock and Click Consultancy Pvt. Ltd., Bangalore.	Nil	80	Nil	Nil
2019	Wipro Specific Training by Mission Ignite, Bangalore.	Nil	120	Nil	Nil
2019	CTS Specific Training by CDC, KEC	Nil	120	Nil	Nil
2019	National Level Test specific Training for Employability Skills by Mission Ignite, Bangalore.	Nil	120	Nil	Nil
2019	National Level Test specific Training for Coding Skills Verbal Skills by Mission Ignite, Bangalore.	Nil	120	Nil	Nil
2020		Nil	84	Nil	Nil

	INTRODUCTION TO IOT AND ARDUINO				
2019	Online Assessment on Employability and Coding Skills by HireMee	Nil	220	Nil	Nil
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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
1	1	40

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
TCS, Edupolis Tech, CTS, Aliens Group, WIPRO, Windcare India P.Ltd, KodNest, IBM, Qspiders, L-Cube Innov.Sol P.Ltd., DXCT, MAD-ELEPHANT NTW TECH P.LTD, Greatcoder Technologies P.Ltd, Tekademics Pvt, Altruist India P.LTD, Jaro Education, Atos Syntel	362	304	Tata Consultancy Services (NQT) Cognizant Technology Solutions Wipro DXC Technology Atos Syntel Magzter Digital Pvt. Ltd.,	350	16
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students	Programme graduated from	Department graduated from	Name of institution joined	Name of programme
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	enrolling into higher education				admitted to
2019	5	KUPPAM ENGINEERING COLLEGE	CSE	KUPPAM ENGINEERING COLLEGE	COMPUTER SCIENCE AND TECHNOLOGY
2019	1	KUPPAM ENGINEERING COLLEGE	CIVIL	UNIVERSITY OF SALFORD	M.S
2019	1	KUPPAM ENGINEERING COLLEGE	EEE	KUPPAM ENGINEERING COLLEGE	M.TECH POWER ELECTRONICS
2019	1	KUPPAM ENGINEERING COLLEGE	CIVIL	VISHVESHWA RAIHAH INSTITUTE OD SCIENCE AND TECHNOLOGY	M.TECH
2019	1	KUPPAM ENGINEERING COLLEGE	CIVIL	UNIVERSITY OF NORTHAMPTON	MBA
2019	7	KUPPAM ENGINEERING COLLEGE	MECH	KUPPAM ENGINEERING COLLEGE	M.TECH
2019	Nil	KUPPAM ENGINEERING COLLEGE	ECE	KUPPAM ENGINEERING COLLEGE	M.TECH
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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
Any Other	2
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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
chess for girls	Institute level	7
table tennis(boys)	Institute level	14
tennikoit for girls	Institute level	14
badminton for boys	Institute level	7
badminton for girls double	Institute level	14
kabadi	Institute level	84
tug of war for boys	Institute level	140
tug of war for girls	Institute level	120
basketball for boys	Institute level	84
kho kho for girls	Institute level	56
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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
2019	FOOTBALL	National	1	Nil	17F41A0217	PRANAV
2019	CARROM	National	1	Nil	16F41A0461	M SHIDDARTHA REDDY
2019	CARROM	National	1	Nil	16F41A0581	P SATHISH KUMAR
2019	BADMINTON	National	1	Nil	16F41A0580	P F ELIZABETH ASHLIN
2019	BADMINTON	National	1	Nil	17F41A0103	AMRUHTA THAMPAN
2019	BADMINTON	National	1	Nil	16F41A0202	AAREESH JOSHY
2019	BADMINTON	National	1	Nil	18F45A0313	RASIMENTI MUKESH
2019	BASKETBALL	National	1	Nil	19F41A0592	SAMEENDRA P MANOJ
2019	FOOTBALL	National	1	Nil	16F41A0202	AMAL JYOTHI
2019	FOOTBALL	National	1	Nil	17F41A0560	MAHIN T B

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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:

983

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

ALUMNI MEET 2K19

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 polices 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
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.
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.
Research and Development	Faculty members are encouraged to

	<p>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.</p>
Human Resource Management	<p>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.</p>
Industry Interaction / Collaboration	<p>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.</p>

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

E-governace area	Details
Student Admission and Support	<p>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 fee. Sending SMS/Email regarding</p>

	<p>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
2019	Dr D Sumathi R Kavipriya and Meneka	5G theory to practice and its Application	Eshwari Engineering College AICTE	4500
2019	Dr N Muneendra	National Conference on Opportunities and Challenges in Entrepreneur ship	Nill	500
2019	V Shanmugam and P	Team work and positive work	TEQIP3	Nill

	Karthigayan	culture		
2019	K Peddulaiah	Emerging trends in chemical sciences Dravidian University	Nil	1000
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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)
2019	Nil	Technical Refreshment Program	18/06/2019	20/06/2019	Nil	6
2019	Introduction to web development	Nil	17/07/2020	19/07/2020	22	Nil
2019	A curtain raiser on immersive technology AR-VR	Nil	25/07/2020	25/07/2020	31	Nil
2019	Nil	Training on Maintenance of LAB equipments and instruments	19/12/2019	19/12/2019	Nil	18
2019	Nil	Basic CAD training	25/11/2019	27/11/2019	Nil	6
2019	Nil	Material Testing Quality control	16/04/2020	17/04/2020	Nil	3
2019	Nil	Google services	19/06/2019	20/06/2019	Nil	25
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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	Number of teachers who attended	From Date	To date	Duration
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development programme				
APSSDC online FDP on staad pro	3	13/07/2020	26/07/2020	13
APSSDC Online FDP on building drafting using AUTOCAD	3	13/07/2020	26/07/2020	13
Modelling and simulation of renewable energy sources	3	29/06/2020	30/06/2020	2
Challenges and emerging solutions for environmental protection	2	22/07/2020	24/07/2020	3
Civil engineering practices	1	28/05/2020	29/05/2020	2
Earthquake resistant design of structures	7	10/07/2020	10/07/2020	1
Planning aspects and practical site difficulties	7	11/07/2020	11/07/2020	1
Recent advances in environmental engineering	1	30/06/2020	30/06/2020	1
Design consideration for water and waste water treatment facilities	1	09/06/2020	09/06/2020	1
Net zero energy building certification for enhanced benefits	1	11/06/2020	11/06/2020	1
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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	82	82

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Conference Participation /Publication incentive /Patent Rights Publications / Books 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	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	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

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 !!!		
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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)

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.

- Continuous monitoring of students and provide feedback on their performance
- 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)

The institution has proposed and implemented several approved quality initiatives during the academic year 2018-19 on different fronts of academics and administration. Encouragement to design and develop projects/apps to address the problems identified. Encouragement for the startups and incubation centers through newGEN IEDC Improved placements with better annual packages. MOUs with the industries for the industrial visits and field trips. Extensive training programmes conducted for faculty members to enhance pedagogical approaches. Exclusive training program for students based on the industry requirement.

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
2019	IQAC MEETING	20/04/2019	01/05/2019	23/12/2019	15
2019	IQAC Meeting	21/12/2019	02/01/2020	29/05/2020	17
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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
Women's Day	07/03/2020	07/03/2020	120	Nil

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	Nil
Rest Rooms	Yes	2
Scribes for examination	Yes	Nil

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
2019	1	1	19/09/2019	1	Awareness on Higher Education	Significance of Higher Education and Path after X or SSC	100
2019	1	1	07/10/2019	1	Awareness on Technical Education	Scope of Science and Technology	150
2019	1	1	13/11/2019	1	Awareness on Afforestation	Global Warming Pollution	100
2019	1	1	18/12/2019	1	Awareness on Higher Education	Importance of Higher Education and What to do after Intermediate	150

[View File](#)

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
Importance of Profession Ethics	27/11/2019	27/11/2019	110
Founder's Day	27/12/2019	27/12/2019	240
Mobile Phone Hazards	22/01/2020	22/01/2020	180
Choosing a Right Career	19/02/2020	19/02/2020	120

[View File](#)

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 APSCE 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 wellbeing 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 sensitise 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