



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		KARPAGAM COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. P. Vijayakumar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04222619030
Mobile no.		9894994643
Registered Email		office@kce.ac.in
Alternate Email		principal@kce.ac.in
Address		Othakkalmandapam
City/Town		Coimbatore
State/UT		Tamil Nadu
Pincode		641032
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	10-Jul-2010
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Shri. P. Sundaram
Phone no/Alternate Phone no.	04222619047
Mobile no.	8056128236
Registered Email	office@kce.ac.in
Alternate Email	iqac@kce.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://kce.ac.in/new/wp-content/uploads/2021/08/KCE-AQAR-2018-19.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

<http://kce.ac.in/academic-calendar/>

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.32	2016	19-Jan-2016	18-Jan-2021

6. Date of Establishment of IQAC

12-Oct-2015

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
Webinar on Problems, challenges and opportunities on Teaching	09-May-2020 1	50

online		
Workshop on Quality in education to bridge the gap between Institution and Industry	29-Jan-2020 1	29
Workshop on Revised Guidelines for NAAC Accreditation Issues and Challenges	29-Jul-2019 1	33
Workshop on Quality Management in Engineering Education	31-Oct-2019 1	47
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8. Provide the list of Special Status conferred 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
Karpagam College of Engineering	12 (B) and 2(f)	UGC	2020 0	0
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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 :	4
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)	
Disseminating and populating the Modified guidelines for NAAC Accreditation - Criterion wise	
Orientation programme for the newly recruited faculty members	

Workshop on Revised Guidelines for preparation of AQAR & SSR in synchronisation with standard Operating Procedures stipulated by NAAC

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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
Introducing New Courses to meet the Industry Expectation	150 New Courses added
Improving the R & D Activities	8 patents awarded and 20 filed 188 Publications
Promotion of research through seed money provision by the management	Rs. 9.04 Lakhs of seed money was provided by the management
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Council	20-Aug-2020

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

2020

Date of Submission

11-Feb-2020

17. Does the Institution have Management Information System ?

Yes

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

The Institution maintains centralised ERP software for the following. • Student personal data • Student attendance and records on progression of studies • Continuous Internal Assessment management system • Automated result analysis • Students attendance status and their performance for them and to parents • Examination management system • Event Management system

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	Auto	Automobile Engineering	15/06/2019
BE	Civil	Civil Engineering	15/06/2019
BE	CSE	Computer Science and Engineering	15/06/2019
BE	ECE	Electronics and Communication Engineering	15/06/2019
BE	EEE	Electrical and Electronics Engineering	15/06/2019
BE	EIE	Electrical and Instrumentation Engineering	15/06/2019
BE	ETE	Electronics and Telecommunication Engineering	15/06/2019
BE	Mech	Mechanical Engineering	15/06/2019
BTech	IT	Information Technology	15/06/2019
MBA	MBA	Master of Business Administration	15/06/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	All UG Programmes	Nil	18AF01/18CF01/18MF01/18LF01/18TF01/18EF01/18NF01/18PF01-Soft Skills	15/06/2019
BTech	Information Technology	Nil	18FF01 -Soft Skills	15/06/2019
BE	All UG Programmes	Nil	18AF02/18CF02/18PF02/18LF02/18EF02/18NF02/18TF02/ 8MF02 -Mini Project - I	15/06/2019

BTech	Information Technology	Nil	18FF02 -Mini Project - I	15/06/2019
BE	All UG Programmes	Nil	18AF03/18CF03 /18MF03/18LF03/18TF03/18EF03/18NF03/18PF03-Mini Project - II	15/06/2019
BTech	Information Technology	Nil	18FF03 -Mini Project - II	15/06/2019
BE	All UG Programmes	Nil	18AF05/18CF05 /18MF05/18LF05/18TF05/18EF05/18NF05/18PF05-Internship - I	15/06/2019
BTech	Information Technology	Nil	18FF05 -Internship - I	15/06/2019
BE	All UG Programmes	Nil	18AF06/18CF06 /18MF06/18LF06/18TF06/18EF06/18NF06/18PF06-Internship - II	15/06/2019
BTech	Information Technology	Nil	18FF06 -Internship - II	15/06/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Information Technology	15/06/2019
BE	Mechanical Engineering	15/06/2019
BE	Electronics and Telecommunication Engineering	15/06/2019
BE	Electronics and Instrumentation Engineering	15/06/2019
BE	Electrical and Electronics Engineering	15/06/2019
BE	Electronics and Communication Engineering	15/06/2019
BE	Computer Science and Engineering	15/06/2019
BE	Civil Engineering	15/06/2019
BE	Automobile Engineering	15/06/2019
MBA	MBA	15/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the

College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	All UG programmes	24/06/2019
BTech	Information Technology	24/06/2019
MBA	Master of Business Administration	24/06/2019
MCA	Master of Computer Applications	24/06/2019
ME	All PG programmes	24/06/2019

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
Programming with Arduino	06/09/2019	30
Wiring and Winding of Motors	05/10/2019	30
eSim	24/08/2020	13
Matlab and its Application	18/11/2019	48
VHDL	04/11/2019	98
Electronic Circuits Design Using eSim	05/08/2019	50
Bar Bending Schedule	11/11/2019	40
Analysis and Design of Structures using STAAD.PRO	26/12/2019	40
Comprehensive Algorithms	28/11/2019	77
Automation with Jenkins	28/11/2019	248
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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
BE	Automobile Engineering	188
BE	Civil Engineering	225
BE	Computer Science and Engineering	398
BE	Electronics and Communication Engineering	457
BE	Electrical and Electronics Engineering	377
BE	Electronics and Instrumentation Engineering	156

BE	Electronics and Telecommunication Engineering	97
BE	Mechanical Engineering	571
BTech	Information Technology	290
MBA	Master of Business Administration	71
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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>The feedback from stakeholders is obtained regularly for the development of curriculum, learning resources and sufficiency of infrastructure. The feedback is obtained both on-line and filled - in format. The formats are devised, keeping in view of critical metrics for each of the categories of survey. Some of the surveys are periodical and conducted in a routine manner while others are need based. Obtaining feedback from all the stakeholders is one of the good practices in KCE. It includes faculty feedback, alumni feedback, student feedback, course end survey and exit survey. Some other feedbacks such as Employers Feedback and Parents Feedback are obtained based on the needs. Course end survey and Faculty feedback of course are taken twice in a semester on various teaching/learning /curriculum design aspects and data is analysed by the HODs and remedial measures if any, are informed to the respective faculty for further improvements. Also, faculty feedback from course handling faculty is considered for syllabus revision. Structured feedback is taken from Alumni and employers and experts from academia, industry, profession bodies for revision of the syllabi and curriculum. Employer's feedback enables new course formation, course content revision, creation of facilities and knowledge exchange through conduct of value added courses. Also, Employers feedback and alumni feedback enable new course formation based on recent developments. Exit Survey is taken to analyse the learning outcome of the students and it enables the curriculum development/ syllabus revision in the course if necessary. The students feedback and Student Satisfaction Survey help the institution to modify the Teaching Learning and Evaluation (TLE) processes and for the augmentation of infrastructure facilities. Stakeholders' feedbacks are taken for suggestions and improvements in the curriculum.</p>

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
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MCA	Master of Computer Applications	60	25	25
MBA	Master of Business Administration	120	46	46
BTech	Information Technology	120	110	110
BE	Mechanical Engineering	180	98	98
BE	Electronics and Telecommunication Engineering	60	20	20
BE	Electrical and Electronics Engineering	180	79	79
BE	Electronics and Communication Engineering	180	167	167
BE	Computer Science and Engineering	180	133	133
BE	Civil Engineering	60	27	27
BE	Automobile Engineering	60	18	18
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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	3393	136	278	28	Nil

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
306	306	8	92	22	11

[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 Institution has a well-structured Mentoring system where in a Mentor is assigned to a batch of every 25-30 students from first year till final year. The mentors meet the students periodically to continuously monitor, counsel, guide, and motivate the wards in all academic/ personal matter. They also guide in choosing the electives, internship, training and projects besides career selection. The mentors maintain continuous record of their wards academic and personal matters. In academics, mentors maintain data of performance details for all the semesters. They offer professional guidance to the mentees in guiding them towards their professional goals, selecting a career and higher studies. In addition they also arrange for counselling in stress related issues with support of the professional counsellor available in the campus. The mentor is one vital source for a student where he/she can seek knowledge, guidance and support at all times. They bridge the communication gap between parents and the management by regularly updating the parents about their wards progress and other updates from the institution. Effective mentoring provides a trustworthy relationship between mentors and their wards which:

- Focuses on the needs of the students.
- Establishes adequate communication with parent and closely monitor the academic performance of the students.

Roles and responsibilities of Mentor

- Acts as a friend, philosopher and guide in times of need
- Acts as role model
- Provides guidance, encouragement, and moral support
- Acts as a catalyst in professional development and soft skills
- Offering guidance to their wards to reach their professional goals, selecting a career and higher studies
- Guides the ward to choose courses in accordance with the area of interest
- Monitors the academic progression and keep their parents informed.
- Motivates their ward for participation in co-curricular/ extra-curricular activities for holistic developments
- Identify and assist the ward to bridge the gap in their skill sets in the career progression

A mentor is an individual staff with expertise who can help in the holistic development of a mentee. A mentor often has two primary responsibilities towards the mentee. The career-related responsibility establishes the mentor as a coach who provides advice to enhance the mentee's professional learning performance and development. The psychosocial responsibility establishes the mentor as a role model and support system for the mentee. Both provide explicit and implicit lessons related to professional development as well as work-life balance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3529	203	1:17

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
60	60	Nil	60	9

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	Mr. KANNIMUTHU	Associate Professor	NPTEL Topper of 1 in Programming In Java
2019	Ms. SUMY P S	Assistant Professor	NPTEL Topper of 5 in Digital Circuits
2019	Mr. ASIF SHAHKUTTY	Assistant Professor	NPTEL Topper of 1 in Digital Circuits
2019	Mr. ARUNKUMAR P M	Assistant Professor	NPTEL Topper of 1 in Introduction to Internet of Things
2019	Mr. JAYADEVAN N M	Assistant Professor	NPTEL Topper of the course Embedded System Design with

			ARM
2019	Ms. R MIRDULA	Assistant Professor	NPTEL Topper of 1 in Programming in Java
2019	Mr. JAYADEVAN N M	Assistant Professor	NPTEL Topper of 5 in Introduction to Embedded System Design
2019	Dr RAMMOHAN T	Professor	Reviewer- IET Image Processing
2019	Ms. SUBHASHREE.K	Assistant Professor	NPTEL Topper of 1 in Programming, Data Structures And Algorithms Using Python
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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
MCA	MCA	5/3	13/11/2019	05/12/2019
MBA	MBA	3/2	03/01/2020	07/01/2020
BTech	Information Technology	7/4	13/11/2019	05/12/2019
BE	All UG programmes	7/4	13/11/2019	05/12/2019
MBA	MBA	4/2	29/09/2020	14/10/2020
BTech	Information Technology	8/4	29/09/2020	14/10/2020
BE	All UG programmes	8/4	29/09/2020	14/10/2020
MCA	MCA	6/3	29/09/2020	14/10/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	7260	0

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)

<https://kce.ac.in/new/wp-content/uploads/2020/06/PO-PSO.pdf>

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
MBA	MBA	Master of Business Administration	27	27	100
IT	BTech	Information Technology	95	95	100
MECH	BE	Mechanical Engineering	208	208	100
ETE	BE	Electronics and Telecommunication Engineering	46	46	100
EIE	BE	Electronics and Instrumentation Engineering	64	64	100
EEE	BE	Electrical and Electronics Engineering	146	146	100
ECE	BE	Electronics and Communication Engineering	153	153	100
CSE	BE	Computer Science and Engineering	114	114	100
Civil	BE	Civil Engineering	85	85	100
Auto	BE	Automobile Engineering	64	64	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)

<https://kce.ac.in/new/wp-content/uploads/2021/08/KCE-student-satisfaction-survey-report-2019-20.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Mr .SIVARAMKRISHNAN M

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Arul Antron Vijay S	PhD	12/07/2019	Anna University
National	Subbulakshmi P	PhD	02/08/2019	Anna University
National	Janaki K	PhD	10/07/2019	Anna University
National	Santhosh P	PhD	21/11/2019	Anna University
National	Umamageswari R	PhD	01/07/2020	Anna University
National	S.Lakshmi	PhD	19/09/2019	Anna University
National	S.Rathinamala	PhD	28/02/2020	Anna University
National	A.Angeline Peace Preethi	PhD	28/02/2020	Anna University
National	P.K.Anand Prem	PhD	02/03/2020	Anna University
National	M.P.Mohandas	PhD	12/06/2020	Anna University

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3.2 – Resource Mobilization for Research

3.2.1 – 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	1080	Department of Science and Technology (DST)	146.86	80.23
Major Projects	360	Vithai Agro Farms, Dindigul	2.76	2.76
Major Projects	360	Star Builders Coimbatore	2.01	2.01
Major Projects	360	Prosun Energy Pvt. Ltd,	2.2	2.2

		Coimbatore		
Major Projects	360	Techvolt Private Ltd. Coimbatore.	5.69	5.69
Major Projects	360	Livesky Technologies Coimbatore	4.65	4.65
Major Projects	360	Tamil Nadu State Council Science and Technology	0.08	0.08
Major Projects	360	Bannari Amman Engineering Industries pvt ltd	4.39	4.39
Major Projects	360	Siva Industries	3.63	3.63
Major Projects	360	Vijay oil and Gas Combustion System	4.92	4.92
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.08

3.3 – Innovation Ecosystem

3.3.1 – 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
Three wheeled electric vehicle design and fabrication	AUTOMOBILE ENGINEERING	15/07/2019
Electric Bike Design and Fabrication	AUTOMOBILE ENGINEERING	03/02/2020
Race Car Design and Fabrication	AUTOMOBILE ENGINEERING	25/02/2020
Hands on training programme on Concrete Mix Design M/S Ultra tech Cements	CIVIL ENGINEERING	17/08/2019
Innovative Ideas for Students Research	CIVIL ENGINEERING	06/09/2019
Workshop on Research Methodologies and its Applications	CSE	13/03/2020
One day National Level workshop on Artificial Intelligence and Machine Learning	ECE	06/03/2020

One day National Level workshop on Industrial standard IP core Flow using Verilog HDL	ECE	05/03/2020
One day National Level workshop on Real Time Applications of IoT	ECE	29/02/2020
One day National Level workshop on Introduction to e Sim For Circuit Design Applications	ECE	29/02/2020
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3.3.2 – 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
Technical Fest CRYPERA19-CODE BANG	HARIKRISHNAN D ARAVIND D	Coimbatore Institute of Technology	28/08/2019	First Place
Technical Fest CRYPERA19-LINKIT	ARAVIND C HARIKRISHNAN D	Coimbatore Institute of Technology	29/08/2019	First Place
11th National Level Intercollegiate Technical And Management Fest	RICHARD PHILIP P	Saveetha Engineering College	06/09/2019	Third Place
National Level Techno-Cultural - DYUKSHA20- SWAT THE BUG	GOWTHAM S THANGESH KUMAR K K	NSS College of Engineering	14/02/2020	First Place
National Level Techno-Cultural - DYUKSHA20- CODE MAESTRO	CLAUDIN NARSIS RAJKUMAR	NSS College of Engineering	14/02/2020	First Place
CSI Regional Student Convention Region-VII - TECHNOKRET 2K20 - MIND DRILL	HEMASHREE S GOWTHAM KRISHNA G K MADHUMITHA K	KPR Institute of Engineering and Technology	14/02/2020	First Place
CSI Regional Student Convention Region-VII - TECHNOKRET 2K20 - MIND DRILL	SHREENITHRA B RAGHUL S VISHNU SANKAR J	KPR Institute of Engineering and Technology	14/02/2020	Second Place
National Level Technical Symposium TECHOPEIDA	SUDHARSAN L SARVESH IYER	Dr.N.G.P Arts and Science College	13/02/2020	First Place

2020-PAPER PRESENTTION				
Information Retrieval Evaluation (FIRE19)	Dr. KANNI MUTHU S	Indian Statistical Institute, Kolkata	12/12/2019	Best Team Award
Student Branch Award	Dr. ANGEL LATHA MARY S	Computer Society of India	18/01/2020	Best Accredited Student Branch Award
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3.3.3 – 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
Nill	Nill	Nill	Stark Motorsports India	Motorsports	22/06/2020
Nill	Nill	Nill	Herbly	Cosmetics and Personal care	24/07/2020
Nill	Nill	Nill	Wizard Trader	Stocks and Trading	05/08/2020
Nill	Nill	Nill	E-Crussaders	Digital Marketing	04/09/2020
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	2
Electrical and Electronics Engineering	3
Electronics and Instrumentation Engineering	3
Electronics and Communication Engineering	3
MBA	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Automobile Engineering	3	Nill
International	Civil Engineering	6	Nill
International	Computer Science and Engineering	23	Nill
International	Electronics and Communication	55	Nill

	Engineering		
International	Electrical and Electronics Engineering	30	Nil
International	Electronics and Instrumentation Engineering	12	Nil
International	Electronics and Telecommunication Engineering	9	Nil
International	Mechanical Engineering	14	Nil
International	Information Technology	20	Nil
International	Master of Business Administration	8	Nil
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Engineering	9
Electronics and Instrumentation Engineering	8
Electrical and Electronics Engineering	32
Computer Science and Engineering	6
Civil Engineering	10
Science and Humanities	3
Information Technology	6
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Portable water tank cleaner	Published	306727	25/10/2019
Tank cleaning equipment set	Published	306728	09/08/2019
Cleaning mechanism for cylindrical tank	Published	306731	06/12/2019
Acupressure foot rejuvenator	Published	306735	09/08/2019
Horizontal Air Purifier	Published	315943-001	08/11/2019
Indoor Air Purifier	Published	315943-003	08/11/2019

Multistage air purification channel	Published	315943-007	08/11/2019
Air purification device	Published	315943-009	15/11/2019
U-Turn Signal indication method with colour coding for light vehicles, heavy vehicles and two wheelers	Filed	TEMP/E-1/16129/	Nil
Indicator with U-Turn indication on the front top and back top of light and heavy vehicle	Filed	TEMP/E-1/18342/	Nil
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3.4.5 – 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
GSM BASED DOOR LOCK SYSTEM	A. NAJMA, B. MOHANA, A. MOHANBABU	International Journal of Innovative Technology and Exploring Engineering	2019	Nil	Karpagam College of Engineering	3
METICULOUS FUZZY CONVOLUTION C MEANS FOR OPTIMIZED BIG DATA ANALYTICS: ADAPTATION TOWARDS DEEP LEARNING	NAGARAJ BALAKRISHNAN, ARUNKUMAR RAJENDRAN, KARTHIGAIGUMAR PALANIVEL	International Journal of Machine Learning and Cybernetics	2019	Nil	Karpagam College of Engineering	3
ADVANCED ALGORITHMS FOR MEDICAL IMAGE PROCESSING	RAJENDRAN THAVASIMUTHU, K.P. SRIDHAR, S. MANIMURUGAN, DEEPA S.	The Open Biomedical Engineering Journal	2019	Nil	Karpagam College of Engineering	4
PIR AND	P.EBEN	Internat	2019	Nil	Karpagam	5

IR SENSOR BASED SMART HOME AUTOMATION SYSTEM USING IOT FOR ENERGY SAVING APPLICATIONS	SOPHIA, PRITHVIRAJAN .R, THIRUNAVUKARASU. S, MUTHURAJ.K, S. SARMILA	ional Journal of Innovative Technology and Exploring Engineering			College of Engineering	
PERFORMANCE ANALYSIS OF RECTANGULAR MICROSTRIP PATCH ANTENNA FOR WIRELESS APPLICATION USING FPGA	S GNANAMURUGAN, P. SIVAKUMAR	Microprocessors and Microsystems	2019	Nil	Karpagam College of Engineering	5
A NEW HEALTHCARE DIAGNOSIS SYSTEM USING AN IOT-BASED FUZZY CLASSIFIER WITH FPGA	SAMBIT SATPATHY, PRAKASH MOHAN, SANCHALIDAS, SWAPAN DEBBARMA	The Journal of Supercomputing	2020	Nil	Karpagam College of Engineering	12
RETINAL MICROANEURYSMS DETECTION USING LOCAL CONVERGENCE INDEX FEATURES	A.MOHANBABU, S.DEEPIKA, R.JANANI VIDHYA, M. SANTHANA, R.SRUTHILAKSHMI	International Journal of Innovative Technology and Exploring Engineering	2019	Nil	Karpagam College of Engineering	13
DEEP BELIEF NETWORK ENHANCED INTRUSION DETECTION SYSTEM TO PREVENT SECURITY BREACH IN THE INTERNET OF THINGS	NAGARAJ BALAKRISHNAN, ARUNKUMAR RAJENDRAN, DANILO PELUSI, VIJAYAKUMAR PONNUSAMY	Internet of Things	2019	Nil	Karpagam College of Engineering	14
RECENT INNOVATIONS IN SOFT COMPUTING	RAJENDRAN THAVASIMUTHU, K.P.	Current Signal Transduction Therapy	2019	Nil	Karpagam College of Engineering	15

APPLICATIONS	SRIDHAR, S. MANIMURUGAN, DEEPA S.					
TUNING OF A PID CONTROLLER USING EVOLUTIONARY MULTI OBJECTIVE OPTIMIZATION METHODOLOGIES AND APPLICATION TO THE PULP AND PAPER INDUSTRY	K. NISI, B. NAGARAJ, A. AGALYA	International Journal of Machine Learning and Cybernetics	2019	Nil	Karpagam College of Engineering	17
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3.4.6 – 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
DEEP BELIEF NETWORK ENHANCED INTRUSION DETECTION SYSTEM TO PREVENT SECURITY BREACH IN THE INTERNET OF THINGS	NAGARAJ BALAKRISHNAN, ARUNKUMAR RAJENDRAN, DANILO PELUSI, VI JAYAKUMAR PONNUSAMY	Internet of Things	2019	Nil	11	Karpagam College of Engineering
RETINAL MICROANEURYSMS DETECTION USING LOCAL CONVERGENCE INDEX FEATURES	A.MOHANABABU, S.DEEPIKA, R.JANANI VIDHYA, M. SANTHANA, R.SRUTHILAKSHMI	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	Nil	13	Karpagam College of Engineering
CONVOLUTIONAL NEURAL NETWORK BASED EARLY FIRE DETECTION	FAISAL SAEED, ANAND PAUL, P. K ARTHIGAIKUMAR, ANAND NAYYAR	Multimedia Tools and Applications	2019	Nil	13	Karpagam College of Engineering

ADVANCED ALGORITHMS FOR MEDICAL IMAGE PROCESSING	RAJENDRAN THAVASIMUTHU, K.P. SRIDHAR, S. MANIMURUGAN, DEEPA S.	The Open Biomedical Engineering Journal	2019	Nill	15	Karpagam College of Engineering
TUNING OF A PID CONTROLLER USING EVOLUTIONARY MULTI OBJECTIVE OPTIMIZATION METHODOLOGIES AND APPLICATION TO THE PULP AND PAPER INDUSTRY	K. NISI, B. NAGARAJ, A. AGALYA	International Journal of Machine Learning and Cybernetics	2019	Nill	17	Karpagam College of Engineering
POWER FLOW MANAGEMENT IN MICRO GRID THROUGH RENEWABLE ENERGY SOURCES USING A HYBRID MODIFIED DRAGONFLY ALGORITHM WITH BAT SEARCH ALGORITHM	SURESH KUMAR K, P. VIJAYAKUMAR	Elsevier-Energy	2019	Nill	22	Karpagam College of Engineering
FLOCCULATION: AN EFFECTIVE WAY TO HARVEST MICROALGAE FOR BIODIESEL PRODUCTION	M.MUBARAK, A.SHAJJA, T.VSUCHITHRA	Journal of Environmental Chemical Engineering (Elsevier)	2019	Nill	25	Karpagam College of Engineering
STATISTICAL OPTIMIZATION AND KINETIC STUDY ON BIODIESEL PRODUCTION	CHOKKALINGAM SENTHILKUMAR, CHANDRASEKARAN KRISHNA RAJ, PANDIAN	Chemical Engineering Communications	2019	Nill	11	Karpagam College of Engineering

FROM A POTENTIAL NON-EDIBLE BIO-OIL OF WILD RADISH	SIVAKUMAR ANIRBID SIRCAR					
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	10	74	27	5
Presented papers	48	61	Nill	6
Resource persons	Nill	9	9	4
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
MR. SUNDAR GANESH. C. S MR.A.CHARLES	Artificial Intelligence-Based Chatbot for Appliance Control	Katomaran Technology and Business Solutions	151750
DR. JUSTIN VARGHESE MS.R.NANDHINI MS.K.SUBHASREE	Computer vision algorithms for automating machine part defect identification and classification process	Steps Knowledge Services Pvt Ltd,Coimbatore	144500
DR.S.KANNIMUTHU DR.S.ARUL ANTRAN VIJAY DR.P.M.ARUNKUMAR	Administration and monitoring system for Healthcare	Dhanvi Info tech Coimbatore	125250
MS.S.MOHANAPRIYA MS.A.SENTHILANANDHI MS. ASWATHYDEVARAJ. P.V.	Web based Organic product maintenance system	Nattrinai Nalam Saravanampatti	115250
MS.AARTHI.D MS.VAISHNAVI MS.K.KEERTHIKA	Automation of account system for Petrol Bunk	Sri Mookambikai Agencies Sultanpet	120750
DR.A.RAJENDRAN DR.C.PRIYA G.RAJARATHINAM MR.C.MUKUNTHRAJ MR.JAYADEVAN	A Pilot study on Automation in sorting detective machine components	Steps knowledge services Coimbatore	135000
DR.V.SAMINATHAN MS. L.SARANYA	Device application development for	Linumiz Namakal	151000

	cold chain		
DR.VIMALATHIYAN RATHNASABAOATHY DR.S.DEEPA P.ARCHANA MS. HAAPPILA. T.	RFID counting system for textile industries	Krishtec Coimbatore	200000
DR. RAMMOHAN T MRS. VIDYALAKSHMI R	Match box Microcontroller for zone box	SMINT TIQ Pvt. Ltd. Chennai	145000
DR. MEENU D NAIR MR. SIVARAMAKRISHNAN. M	Energy Audit in Chemical Industry	MRK Chemicals	120250
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
DR. M. R. VANITHAMANI MBA	Customer retention and satisfaction	Amman Jewellers Tirupur	3000	35
PROF. J. ABHISHEK NARAYAN MBA	Digital Marketing	Jayam Oils Karur	3000	28
DR.SRINIVASAN C B MECH	Training on Creativity and Innovation	Santech Coimbatore	25000	4
DR.VIMALANAND S MECH	Training on Problem Solving	Techflow Coimbatore	30000	6
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3.6 – Extension Activities

3.6.1 – 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
An awareness programme on "Holistic Nutrition"(Prime Ministers Overreaching Scheme for Holistic Nourishment Abhiyaan)"	NSS KCE	2	37
A Lecture on "Stress Management"	NSS KCE	2	41
A Guest Lecture on "Social Responsibility as an NSS Volunteer"	NSS KCE	2	32

An Orientation program on NSS	NSS KCE	1	24
Distribution of flood relief materials donated by our NSS volunteers to the tribal people at Gudalur	NSS KCE	2	1
Seed Ball preparation	NSS KCE	1	10
"Soft Skills Training Program" for the children at Government Primary School at Chettipalayam.	NSS KCE	1	18
Distribution of stationery items for the Government Primary School Children at Kil Kothagiri Near Kothagiri The Nilgiris.	NSS KCE	1	2
A visit to the Orphanage "Families for Children" at Pothanur	NSS KCE	2	24
A Seminar on "Drug Abuse and illicit Trafficking	Department of Forensic Medicine Coimbatore Medical College and Hospital	2	25
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3.6.2 – 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
National Integration Camp	Mr.S.Kavin Raja and Ms.S .Kiruba Devi	Ek Bharat Shreshtha Bharat Club Ministry of Youth Affairs and Sports Government of India	2
Best Volunteer award	Indira Gandhi Award received by Ms.S.T.Nivetha ECE	Ministry of Youth Affairs and Sports Government of India	1
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3.6.3 – 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
Ek Bharat Shreshtha Bharat	NSS KCE	Inauguration of Ek Bharat Shreshtha Bharat Club	4	44
Gender Sensitization	NSS KCE	A Lecture on "Female Foeticide"	2	28
National Unity Day	NSS KCE	National Unity day celebrations	2	20
Awareness on Covid 19	NSS and Ministry of Youth Affairs and Sports	Awareness about Covid 19 was informed to the children at Panchayat Union Public School Hubbathalai Coonoor The Nilgiris	1	8
Birthday Celebration of Bharathiyar	Sri Venkateswara College of Engineering Chennai and Yuvaskathi NGO Chennai	Youth motivation program	1	7
National Education Policy	NSS and UBA	Webinar on National Education Policy 2020	1	45
Gandhi Jayanthi	NSS KCE	Gandhi Jayanthi Celebrations with tribal kids at Jambukandi and Kootupuli tribal hamlets Anaikatti forest range Coimbatore	1	19
Independence Day	NSS KCE	Independence Day celebration at Mangarai tribal hamlet Anaikatti forest range Coimbatore	1	46
Yoga Day	NSS Vaanam Foundation NGO and Isha Yoga	Webinar on Yoga for respiratory	1	30

	Foundation NGO Coimbatore	Health		
Swachh Bharat Mission	NSS KCE	Campus Cleaning program	2	149
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Faculty exchange	Mr.KRISHNA KUMAR.R Mr.THILAGARAJ.M Mr.PALPANDIAN.P Dr.GOVINDA KUMAR.E	Karpagam College of Engineering	6
Industrial Training	Mr. JOTHI PRAKASH V	Karpagam College of Engineering	5
Faculty exchange	Dr. P. MURUGESWARI	Karpagam College of Engineering	1
Faculty exchange	Mr.G. ASHOK KUMAR	Karpagam College of Engineering	1
Faculty exchange	Mr.CHITHARTHAN S Mr.PERIYASAMY, Mr. KONDUSAMY V	Karpagam College of Engineering	12
Industrial Training	Mr.MOHANRAJ J	Karpagam College of Engineering	2
On-the-job training	Mr.RAM PRASHATH R Ms.GOMATHI R	Karpagam College of Engineering	6
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3.7.2 – 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
Internship	Internship Program	Shrimp Hoard Technologies	15/06/2020	30/06/2020	6
Training	Training Program	TRIARCSYS Private Limited	12/01/2020	17/01/2020	4
Internship	Internship Program	STEM Industries Pvt	19/05/2020	20/06/2020	4
Internship	Internship Program	E-shark Technologies	22/06/2020	27/07/2020	8

Internship	Internship Program	E-shark Technologies	18/05/2020	22/06/2020	13
Internship	Internship Program	Averzs Technologies	04/04/2020	08/06/2020	7
Internship	Internship Program	Averzs Technologies	11/05/2020	15/06/2020	8
Internship	Internship Program	Chola Design Solution	15/06/2020	04/07/2020	4
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NEXUS Automation Solutions	01/06/2019	Seminar on Automation Products And PLC Selection Faculty Training and Student Internship	108
Prosun Energy Pvt Ltd	05/06/2019	A National Level Workshop on Design Of Solar Photovoltaic Panel For Residential Purpose 2019-20	40
RRT Electro Power(P) Ltd.	20/09/2019	One Day National Level Workshop on Industrial Automation Using PLC And SCADA During 2019-20	49
Techvolt Software Pvt Ltd. Coimbatore.	03/10/2019	Workshop on "Security issues in Internet of Things" on 29-02-2020. Provided syllabus for industry courses	90
IndoShell Cast Pvt. Ltd. Coimbatore	19/08/2019	Workshop on Machine Monitoring using IoT	4
Karupa foundations	28/08/2019	One Day National Level Hands on Training on LabVIEW for Graphical System Design on 26-02-20	49
Stem Industries pvt Ltd	20/07/2019	One day National Level workshop on Introduction to e-	26

		Sim for Circuit Design Applications on 29-02-2020	
Nitroware Technologies Coimbatore	11/11/2019	Training, Workshops	25
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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
695.75	631.21

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing
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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 patially)	Version	Year of automation
KCELMS	Fully	3.0	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	45353	11463730	1059	283237	46412	11746967
Reference Books	1981	884175	21	30500	2002	914675
e-Books	1114	13570	499	Nil	1613	13570
Journals	268	466477	7	20800	275	487277

e- Journals	5196	70992	721	205745	5917	276737
CD & Video	3622	Nil	20	Nil	3642	Nil
Weeding (hard & soft)	162	27046	5	1600	167	28646
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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
Faculty members of EEE Department	Power Electronics	Google Classroom	24/06/2019
Faculty members of EEE Department	Electronic Circuits	Google Classroom	24/06/2019
Faculty members of EEE Department	Transmission and Distribution	Google Classroom	24/06/2019
Faculty members of EEE Department	Electrical Drives and Control	Google Classroom	24/06/2019
Faculty members of EEE Department	Power System Operation and Control	Google Classroom	24/06/2019
Faculty members of EEE Department	Virtual Instrumentation	Google Classroom	24/06/2019
Faculty members of EEE Department	DC and Synchronous Machines	Google Classroom	24/06/2019
Faculty members of ECE Department	Electromagnetic fields	Google Classroom	24/06/2019
Faculty members of ECE Department	Electronic circuits	Google Classroom	24/06/2019
Faculty members of ECE Department	Digital signal processing	Google Classroom	24/06/2019
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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	1883	25	0	0	8	11	230	200	60
Added	0	0	0	0	0	0	0	0	0
Total	1883	25	0	0	8	11	230	200	60

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

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
Google Classroom	https://kce.ac.in/academics/department-of-automobile-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-civil-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-electronics-and-communication-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-electrical-and-electronics-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-mechanical-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-electronics-and-telecommunication-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-electronics-and-instrumentation-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-computer-science-and-engineering/
Google Classroom	https://kce.ac.in/academics/department-of-information-technology/

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
654.25	603.44	210.1	155.95

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)

The entire physical academic and support facilities in the campus are maintained and serviced by a team of employees coming under the Estate Department. The same is headed by a manager (administration). He is supported by section-wise field level in-charges. These support services are broadly

classified as under: • Civil maintenance • Electrical maintenance including solar power captive power • Water support sewage and STP • Plumbing and RO facilities • Carpentry • Central computing facility (CCF) • Housekeeping cleanliness • Gardening landscaping and ambience • Security (24X7) and safety aspects. Each of the above divisions is given well-defined work schedule and they are regular in the up-keep running and maintenance of the above facilities. Further qualified personnel oversee the sections' working to ensure trouble-free service availability. The institution which is functioning in a rural area has the locational advantage in getting suitable employees to work especially in horticulture conservation and housekeeping work. Thus rural employment too is created. Budgetary support: At the beginning of academic year division wise budgetary provisions are made based on the past records for these services. This may involve employee cost consumables stock purchases. The entire finance requirement is met from own sources. The finance committee for the institution approves the budgetary requirements. The book of accounts is audited regularly and certified by auditors every year before filing the returns to Income Tax Authorities. Utilizing the facilities: While preventive maintenance is periodically undertaken by the individual sections. Break-down /out of service requirements are availed by the respective departments by initiating a 'service note'. Normally the head of the relevant department will forward such request to the Estate department. The Principal periodically verifies the efficiency and effective working of these divisions. Impediments if any shall get resolved in consultation with the management. Administrative academic audit (external) is also undertaken in order to bring the quality improvements in their functioning. The campus wi-fi facilities PCs LAN printers UPS etc. are coming under the purview of Central Computing Facility (CCF). Centralized facilities such as auditorium meeting halls placement centre are under the management of a Dean. Gymnasium indoor game facilities are monitored by the physical director and the central library is administered by the librarian with his team. Well laid out guidelines are available in the institutes' Academic Administrative Audit manual.

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	Karpagam Charitable Trust	5	105000
Financial Support from Other Sources			
a) National	Scholarship grant by the Government of TN	2429	41904589
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
Mentoring	01/07/2019	3529	Designated Mentor- KCE

Yoga	19/08/2019	643	Ms.T.V.Jeyalakshmi, SKY Yoga Trust, Coimbatore
Bridge courses	16/08/2019	103	Respective Course handling faculty - KCE
Language lab	06/01/2020	635	Department of English- KCE
Remedial Coaching	21/08/2019	1128	In House Experts
Soft Skill development	08/07/2019	2393	Strides Consulting Inc., Chennai
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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	Guidance For Competitive Examinations and Career Counselling	201	1144	33	726
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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
Nil	Nil	Nil

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
Cognizant Technology Solutions	434	128	Dynaspede Integrated Systems Pvt. Ltd.	105	14
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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	1	BE	ELECTRICAL AND ELECTRONICS ENGINEERING	Sri Krishna College Of Engineering and Technology	MBA
2019	1	BE	ELECTRICAL AND ELECTRONICS ENGINEERING	Alliance University	MBA
2019	1	BE	COMPUTER SCIENCE AND ENGINEERING	Alagappa University	MBA
2019	1	BE	COMPUTER SCIENCE AND ENGINEERING	Kumaraguru College Of Technology	M.E-CSE
2019	1	BE	COMPUTER SCIENCE AND ENGINEERING	Sri Krishna College Of Technology	MBA
2019	1	BE	CIVIL ENGINEERING	NIT, Suratkal,	M.Tech. (Remote Sensing and GIS)
2019	1	BE	CIVIL ENGINEERING	K.S. Rangasamy College Of Technology	M.E (Industrial Safety Engineering)
2019	1	BE	CIVIL ENGINEERING	ST. Xavier's Catholic College Of Engineering	M. Tech.(Construction Engineering and Project Management)
2019	1	BE	CIVIL ENGINEERING	Kongu Engineering College	M.E (Structural Engineering)
2019	1	BE	CIVIL ENGINEERING	Crescent Institute of Science and Technology	M. Tech.(Construction Engineering and Project Management)

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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
GRE	5
TOFEL	1

Civil Services	1
Any Other	22
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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
Takshak 2020	National	342
Kalam 20	National	435
Dhuruva'20	National	872
Anna University Chennai Zone 10 Ball Badminton men Tournament	Zone	78
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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	Second Prize	National	Nill	1	17F221	NIRMAL KUMAR M
2019	Second Prize	National	Nill	1	17F120	HARI SHANKARAN N
2019	Second Prize	National	Nill	1	18F101	ABDULA KHAF S
2019	First Place	National	Nill	1	18F116	HARI PRASAND M
2019	Second Prize	National	Nill	1	18F116	HARI PRASAND M
2019	Runners	National	Nill	1	17A118	Karthick S
2019	SILVER Medal	Nill	1	Nill	16L129	S. PRAVIN KUMAR
2019	SILVER Medal	Nill	1	Nill	17M704	GOWTHAM M
2019	SILVER Medal	Nill	1	Nill	17C140	VIGNESH R
2019	SILVER Medal	Nill	1	Nill	18F126	LOGESH
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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)

KCE encourages student's representation in both academic and administrative bodies for the effective functioning of the institution on the whole. This is enabling them in acquiring better academic environment. Common Course Committee

The students are involved in academic activities like common course committee and class committee. In common course committee they express their views about the academic matters in terms of progress of the course work. The suggestions given by the by students for the enrichment of academic activities are considered and appropriate action will be taken by the HoD/Principal. Class Committee Every class has a class committee which consists of the students and faculty members Students in the class committee represent their class on the whole and difficulty as observed by their classmates, feedback on faculty handling the course. Class committee meets twice a semester. Each class committee consists of six to eight students selected by the respective class tutor based on their academic activities. Office bearers of department associations Each Department Association is led by students by president, secretary and treasurer with a group of office bearers as specified in the institution guidelines. The student associations' plans and coordinates events like workshops, technical symposiums and technical events with the guidance of the faculty coordinator at regular intervals. Member of Anti Ragging Committee The students in the anti-ragging committee are creating the awareness about the ragging and its consequences to the students and make the campus as a ragging free campus. Mess Committee As a member in mess committee, they represent their friends in hostel on the feedback and variation in food menu, room facilities, up keeping the facilities provided in the hostel. Nominee in IQAC As a member in IQAC, he/she provides suggestions and improvement measures in quality related inputs. Quality Circle As a member in quality circle, they can express their views and ideas to improve the quality of teaching learning process and happiness index of the stakeholders. NSS: The NSS wing of the college is actively organizing various activities with The help of students. Annual NSS camp is held every year where in the students are involved in cleaning of nearby villages with the active involvement of Student members. Further the NSS wing also organizes awareness programmes, Blood Donation Camps, traffic regulation activities and capacity building activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Karpagam College of Engineering has a registered Alumni Association under the Tamil Nadu Societies Registration Act, 1975 and rules 1978 (Tamil Nadu Act 27 of 1975) which is registered on 31st December 2015. The name of the alumni association is registered as "KCE Alumni Association". The association updates the Alumni member details for all the batches periodically to know the current status of the alumni members. KCE alumni association is carrying out various activities throughout the year. These activities aim at not only bringing the members to a close family atmosphere but also carrying out various service activities. Alumni of the College contributed both financially and non-financially over the years in growth and development of the College. It meets periodically to discuss the ways and means to improve the academic environment of the College, as well as to exchange views on the employment opportunities and scope for higher education. Alumni members extend their support to the Institution by permitting the students to visit their industry (entrepreneurs) and offering the Internships to our students. Alumni of the respective departments regularly visit the institution for interaction with the students regarding placements and higher studies in abroad and provide the training the students for placement. They also guide their juniors towards placement by educating them on the skill sets to be developed to achieve better placements. Alumni also contribute in the design and development of curriculum and syllabi as a member in Board of Studies (BoS) of the programmes as well as Academic Council. The purpose of having a proactive alumni association in two way process. For the students of the institution they act as guide, advisor in

motivating the students to reach their professional goal. Every year the KCE Alumni Association organizes events like Alumni Day, Young Alumni Meet, Entrepreneurship and career guidance programmes.

5.4.2 – No. of registered Alumni:

5751

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

1026500

5.4.4 – Meetings/activities organized by Alumni Association :

21

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)

The institution has delegation of authority at various levels to provide functional autonomy. The Governing Council is the apex body and the delegation percolates down to various functional heads. Policy level: The institution is administered by the Governing Council. The Managing Trustee is the Chairman of the Governing Council, and the Principal is the Member Secretary who coordinates all the activities. The Governing Council has faculty representation through two senior professors, having long tenure of service in the institution nominated as members. Policy matters, be it infrastructure augmentation, investment in the laboratories, introduction of new programmes and financial policy are dealt in a participative manner. This decentralization from the top management helps in active participation besides a sense of belonging in the development of the institution. Each department functions as a subunit in deciding and implementing the student centric programmes and activities. All the Departments have functional autonomy. Each Department is having Class Committee for academic needs. The HODs discuss the department level matters with the faculty members in the Department. Meetings are held regularly with the faculty to bring out the best in them. In addition, meetings with Heads of Departments Chaired by the Principal and meeting of the Principal with the faculty at regular intervals reflect participative management. Such meetings provide a platform for open discussion and encourage the involvement of the faculty for improvement and efficiency of the institutional progress. IQAC, the extended arm of NAAC for quality sustenance has representatives from the students, administrative officials, faculty members at different cadre levels nominated in the team involve in the administrative and academic processes. Significant achievement of quality is ensured by active involvement of all stakeholders. Further, various in-house committees like Committee for SC/ST, Grievance Redressal Committee, Internal Complaint Committee, Women Development Cell, Anti-Ragging Committee, Prevention of Sexual Harassment Cell and Gender Equity Committee are having nominees from students and faculty.

Financial Level: The effective functioning of the institution is ensured through transparent decision making. The Principal is supported by the Deans, Controller of Examinations and Heads of the Departments in the administration of the institution. A number of events are regularly organised in the institution and participated extensively by the faculty and students for which the expenses of varying measure are incurred. In order to facilitate faster approval, provision for the expenses by up-front / reimbursement, the institution has a policy framework on delegation at different levels. The financial committee in the meeting held on 25.06.2014 discussed at length about capital investment, recurring expenditure, maintenance expenses and provision

for conducting events of academic nature such as seminars, workshop and decided to enhance the financial expenditure limits allowed as follows: Principal Rs.25,000/. HODs Rs.1000/. However the budget approval is vested with the governing council and the approval of expenditure is as mentioned above.

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	<ul style="list-style-type: none"> • In the academic bodies like Board of Studies (BoS), Academic Council experts from industry are members • Inputs from industry are utilized in devising the curriculum and syllabi. • Invited lectures are offered by industrial experts for selected topics of a course. • MoUs are signed with industries for setting up of Centres of Excellence, for the faculty internship, students visit and internship.
Human Resource Management	<ul style="list-style-type: none"> • Faculty members are permitted to attend orientation programmes, Seminars, Workshops and refresher courses to have more contacts with the outside world • Faculty are encouraged to Organise Seminars, workshops and FDPs in the Institution to improvise their academic skills • Regular workshops are conducted for non teaching staff for their skill up gradation • The faculty members are encouraged to act as resource persons, doctoral committee members, examiners for viva voce etc. • Faculty members publishing papers in journals, Completing NPTEL/Online certifications, creating online course contents for smart classes are suitably rewarded by the institution.
Research and Development	<ul style="list-style-type: none"> • In order to improve the culture of Research and Development in the institution, various activities are organised regularly on writing quality journal papers, writing funding proposals, product development and applying for patents. • Establishing formal and informal linkages with reputed research Institutions • Department level research committee has been constituted and periodic meetings are conducted to review the research progress. • Seed money assistance is provided by the management to carry out basic research • Local industries are

approached for consultancy/ research projects • Faculty are motivated to apply and seek funds from various Government agencies for research activities • Management encourages by providing career advancement incentives for getting research funds and additional qualification.

Examination and Evaluation

As the learning is a continuous process, the evaluation is carried out in two stages viz. Continuous Internal Assessment (CIA) and End Semester Examinations (ESE) each carrying 50 weightage. To test the higher order thinking skills of students the question papers are set employing the concept of 'Blooms Taxonomy'. In order to enhance the analytical skills of students and enable them to face competitive examinations, the question paper are set with 20 of questions from GATE/ other competitive examinations. To improve the practical knowledge of the students the other modes of evaluation like mini project, quiz, presentations, etc. are also followed in the institution. MCQ type of Assessment pattern is followed during the Covid - 19 period

Teaching and Learning

The major stakeholder of Teaching and Learning process is the students. Instead of teaching "tailor made" group of courses, Choice Based Credit System is introduced as a student centric methodology for selection of courses of their choice. Based on the pace of learning of the students, it is permitted to register for the number of courses to obtain the required credits in a semester. Further fast learners are allowed to get online credits. Vacation courses are also offered to make up for the credit requirements. In order to plan and implement the process of moulding the graduates for needs of the Nation/ Industry, Outcome Based Education (OBE) has been introduced and to improve the standard of evaluation, the concept of 'Blooms Taxonomy' is followed. For better pedagogy ICT based teaching, smart classrooms, video lectures, MOOCs and Webinars have been included. Industry experts are invited for the partial delivery of the course to expose the students to the industrial practice. The students are also encouraged to enrol for various

online courses available through SWAYAM and NPTEL. The learning outcomes are measured separately according to the graduate attributes of the programme. During the covid - 19 situation, all the courses are taught in online mode with practicals carried out using vlab and other simulators

Curriculum Development

Development of a creative curriculum that is versatile, sensitive to and widely suitable to the needs of the learners is framed taking suggestions from all major stake holders. The curriculum is designed with in-depth emphasis on fundamentals that seamlessly combines theory, practice, self-study and creative learning. Addition of courses for creative, analytical and technical aspects of engineering which provide global competitiveness is aimed at. The conducive environment of teaching and learning nurtures the qualities of leadership, teamwork and professional ethics. The curriculum also emphasises application, product development and testing. An advisory committee is constituted that regularly reviews and provides recommendations for the development of the curriculum. During the curriculum design, the input from stakeholders namely Employer, Alumni and industrial inputs are also taken to meet the industrial demand and employer expectation

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

E-governance area	Details
Administration	The ERP has various modules for managing admission, timetable preparation, course enrolments, examinations, placement management, hostel management and Library Automation system and fee collection.
Finance and Accounts	There is a specialised system of software for maintenance of account. The features of the software include Complete book keeping that includes accounting, inventory management and payroll preparation. Transactions are tallied on a daily basis and the end of the year audited by external auditors for filing Income tax returns for the institution.
Student Admission and Support	The Admission is carried under single window system/ Management quota. After

	<p>the admission process, the database maintenance of the students admitted in the institution is using the ERP module. The progress and performance data of the entire student is available in the module. Generation of reports on the performance and attendance of the students is obtained using the module. Students assistance/ scholarships data is also available in the module. Students attendance report is maintained using the module.</p>
Examination	<p>Processing of application and hall ticket generation for the End Semester Examinations. Generation of Barcodes (dummy numbers) for evaluation of answer scripts. Generation of reports for the result passing board and online declaration of results. Generation of Grade sheets</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	Ms.SUMY P S	Nill	NPTEL SWAYAM	3400
2019	Mr.SAJEESH S	Nill	NPTEL SWAYAM	2750
2019	Mr.GAJENDRAN P	Nill	NPTEL SWAYAM	2750
2019	Mr.CHARLES A	Nill	NPTEL SWAYAM	1400
2019	Mr.RANGANATHAN T	Nill	NPTEL SWAYAM	1400
2019	Dr. MEENU D NAIR	Nill	NPTEL SWAYAM	1400
2019	Mr.GOVINDARAJ V	Nill	NPTEL SWAYAM	1400
2019	Dr. RAMMOHAN T	Nill	NPTEL SWAYAM	850
2019	Ms.MADHUMITHA K P	Nill	NPTEL SWAYAM	1350
2019	Dr. TAMILSELVAN V	Nill	NPTEL SWAYAM	1650

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional	Title of the administrative	From date	To Date	Number of participants	Number of participants
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	development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)
2019	Training on LabView	Nil	19/09/2019	03/10/2019	17	Nil
2019	One day workshop on Modern Industrial drives- Advancements and Applications	Nil	20/09/2019	20/09/2019	18	Nil
2019	One day workshop on Real Time Applications using LABVIEW with Arduino	Nil	06/12/2019	06/12/2019	29	Nil
2020	One day workshop on Journal writing, IPR and Patent Drafting	Nil	13/12/2019	13/12/2019	46	Nil
2020	Advances and development in electrical and electronics engineering ICADEE 2K20	Nil	06/02/2020	07/02/2020	64	Nil
2020	Faculty Development Programme on Research Avenues in Electrical Engineering	Nil	06/07/2020	10/07/2020	27	Nil
2020	Faculty Development Programme on Recent	Nil	10/08/2020	14/08/2020	201	Nil

	Developments in Electrical Engineering					
2020	Faculty Development Programme on Challenges and Innovations in Electrical Engineering Systems	Nil	09/06/2020	13/06/2020	50	Nil
2020	One day National Level workshop on Artificial Intelligence and Machine Learning	Nil	06/03/2020	06/03/2020	5	Nil
2020	One day National Level workshop on Industrial standard IP core Flow using Verilog HDL	Nil	05/03/2020	05/03/2020	5	Nil
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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
FDP on Technological Advancement in Power System Control, Power Controllers, Drives E-Vehicles	1	27/04/2020	01/05/2020	5
STTP on Neural network	1	20/04/2020	24/04/2020	5

and CNN				
STC Academic leadership enhancement in technical institution	1	04/05/2020	08/05/2020	5
STC on Social Entrepreneurship for Technical Entrepreneurs	1	18/05/2020	22/05/2020	5
STC on Research Oriented Project Work	1	11/05/2020	15/05/2020	5
STC on Image and Embedded Processing	1	27/04/2020	01/05/2020	5
AICTE FDP on Internet of Things	1	15/04/2020	19/04/2020	5
NPTEL FDP on Fundamentals of Electric Drives	1	29/07/2019	20/09/2019	56
NPTEL FDP on Accreditation and Outcome Based Learning	2	29/07/2019	20/09/2020	56
FDP on Recent Advancements in Electrical Drives and control	4	27/11/2019	29/11/2019	3
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
60	60	28	28

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Free medical facility Group insurance Subsidised hostel accommodation and subsidised Transportation facilities	Free medical facility Group insurance Subsidised hostel accommodation and subsidised Transportation facilities	Free medical facility Recreational facilities Scholarships offered by the institution Assistance for getting government and Non Government scholarships Group Insurance

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 is self-financed and the management is by the Governing council. The institution is started by M/S Karpagam Charity Trust having Dr.R.Vasanthakumar as the chairman. Overall the trust administers the institution and looks after the financial matters. The institution has a system for internal audit and accounts. External audit as per the statutory requirements is regularly carried out and returns submitted to Income-tax authority every year. M/S Rajan Sankar and Co is the external auditor appointed and the finalisation of accounts done during the year 2019-20.

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
All India Council for Technical Education	93000	ATAL-FDP on Blockchain
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6.4.3 – Total corpus fund generated

281000

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	Team of Academic Experts	Yes	IQAC
Administrative	Yes	External Expert	Yes	IQAC

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

- Active Participation in IQAC meeting
- Two way interaction on the academic performance of students and motivate them for improvements
- Parents are periodically appraised on the developmental activities undertaken in the institution thereby they are the "brand ambassadors" of the institution.

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

- Technical training program for lab assistants and technicians
- Computer Training program for administrative staff and lab technicians
- First aid and fire Safety Training for all lab supporting staff
- Orientation programme for security and conservancy staff

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

- NBA Accreditation for five programmes obtained.
- 100 percent implementation of Choice Based Credit System
- 100 percent implementation of Outcome-Based Education for all the programmes
- Introduction of the internship course in line with AICTE Guidelines

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No

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	One day workshop on Revised Guidelines for NAAC Accreditation – Issues and Challenges	29/07/2019	29/07/2019	29/07/2019	33
2019	One day workshop on Quality Management in Engineering Education	31/10/2019	31/10/2019	31/10/2019	47
2020	One day workshop on Quality in education to bridge the gap between Institution and Industry	29/01/2020	29/01/2020	29/01/2020	29
2020	Webinar on Problems, challenges and opportunities on Teaching online	09/05/2020	09/05/2020	09/05/2020	50

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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 Celebration	08/03/2020	08/03/2020	163	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

50 KW Grid Connected Roof Top Solar PV Power Plant: Solar Power system with a capacity of 50 KW is used for lights, fans, machineries in the campus and hostel. The number of solar PV panels involved in this plant is 150 and each 4V (Open Circuit Voltage), 9.05 A (Short Circuit Current), 16.49 (Module

Efficiency), -45°C to 85°C (Operating Temperature). An energy audit has been initiated and measures are being taken to increase the harvesting of solar energy on campus. Also, Solar Power Generation is being encouraged by the government that cover buy-back, wheeling and banking of the produced electricity in the state. Total Electricity consumption for the year 2020 1635332 kWhr Amount of Electricity generated through solar power for the year 2020 68787 Total percentage of power met through solar power plant 23.77.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	10
Ramp/Rails	Yes	10
Rest Rooms	Yes	10

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	Nil	1	10/06/2019	1	PMKVY	Under this scheme the following training was offered to make them employable. 1. CNC turner, 2. Assistant Electrician 3. Mobile phone hardware repair technician 4. Field technician network and storage	100
2020	1	Nil	04/01/2020	1	Education outreach Program	Computer training	8

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Policies, Rules and Regulations	10/06/2019	The handbook provide complete information from admission, rules for discipline, welfare committee, faculty and staff recruitment, promotional policies, code of professional ethics. It is available in the institution website kce.ac.in/wp-content/uploads/2019/10/KCE_Policies_Rules-Last-amended-on-August-2019.pdf
Academic Calendar	10/06/2019	The academic calendar is prepared by the institution listing the events planned in advance before the commencement of the academic year and is provided to all students and hosted in the college website. Dates for continuous internal assessment (CIA), conferences, commencement dates of practical and end semester examination, list of holidays, student's feedback dates etc. is printed. http://kce.ac.in/academic-calendar/

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day	21/06/2019	21/06/2019	85
Kargil Day	26/07/2019	26/07/2019	250
Independence Day	15/08/2019	15/08/2019	300
Teacher Day	05/09/2019	05/09/2019	200
Engineers Day	15/09/2019	15/09/2019	550
Indian Constitution Day	26/11/2019	26/11/2019	250
Republic Day	26/01/2020	26/01/2020	300
Science Day	28/02/2020	28/02/2020	250
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Total Ban on plastics
- Plantation of trees
- Using LED light
- Ban on Entry of vehicles inside the campus
- Recycling the sewage water and using it for watering the plants
- Litter free campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices - I

1. Title of the Practice Academia Industry Collaboration
2. Objectives of the Practice Relationships between academia and industry are very important for all the industrial sectors. A good connection between industry and academia can create the necessary synergies to create innovations, to revise the curricula and adapt them to the needs of the industry, to promote the education centers as focal points in the industries, and to promote entrepreneurial activities among the students to contribute as catalysts of innovation. It is then of crucial importance to fulfil the knowledge triangle, bringing together industry, academia, and research, and create an ecosystem including all stakeholders. The institution realises the needs of changing times and future needs of industry requirements and intends a predominant collaboration of today's industry in reorienting curriculum, leaving space of practical hours in the form of trainings and internships at these industries and specific interactions with industry associates in the form of workshops, conferences, symposia etc. at the college campus.
3. The Context In recent years, education on a whole has shifted away from a focus on real problem solving toward more abstract based education, leaving institutions more concerned with producing pure knowledge than in working with industry to address their challenges. One consequence of this has been that institutions in India attract far less industry funding per researcher than universities in competitor nations do. A second challenge has been that polytechnic and engineering colleges/universities have not been producing sufficient numbers of graduates with the skills that employers need. For instance, the Indian Society for Technical Education (ISTE) contends that the number of unfilled manufacturing jobs due to manufacturing employers being unable to find individuals with the skills they require. The institution through its organisational structure has laid stress on the need of appropriate academia industry interaction for each of its faculties and students. The biggest challenge lies in liberating the conventional thought process of teaching faculty members, who have more believed in conventional text book and classroom teaching. The need of the hour also demands appropriate industry collaboration at different levels like developing curriculum or giving practical exposure to the budding professionals so as to make them industry ready.
4. The Practice The practice of Academia Industry Collaboration could be described as one of carrying forward the stage in today's world for which a higher education intuition like ours is preparing students for. The conventional focus of a teaching institute used to be measured with the quality of teachers it has as employees and students which it admits, but in today's world success of a higher education institute is more aptly measured by how much is the system contributing to the states or nations development in the form of manpower, economy etc. Our country faces the challenge of brain drain too, thus it becomes mandatory to look into further depth of the cycle of preparing a student for a ready industry job within our country.
 - As mentioned before industry involvement in academia happens at the initial stage itself that is during curriculum framing.
 - Faculty who has prior experience in the particular stream are sent for industrial training for a certain duration wherein they interact with the industry personal and frame the syllabus that is in line with the industry.
 - After framing the syllabus, faculty undergo intense training in the industry where in they are stuffed with knowledge necessary to handle the course for which they have framed the syllabus.
 - The institution encourages the faculty to get trained by industries in their respective streams and this

practice helps us in preparing our students for employment. • The institution also encourages students to undergo On the Job Training (OJT), internships, inplant trainings etc where in students get chance to work in the industries/companies during their vacation period. • Such a kind of practice is required and is to be carried forwards so as to incorporate the fluctuations or changes the industry sees more frequently. • Through this practice the institution has also been able to work in sync with the government policies especially in the field of education, skill development, entrepreneurship and MSME.

5. Evidence of Success The evidence of success lies in obtaining internships, placing the students in the companies that we have signed MoU with. Many students have grabbed this opportunity and have received internship offers or have been placed. On an annual basis the number of such collaborations has increased in the last five years. There are various steps in development of this collaboration as well. The first would be a simple interaction in the form of guest lecture or an industrial visit. The understanding and focus to future growth of both industry and academia leads to a permanent collaboration in the form of MoU. The institute has much such collaboration which have grown in the last five years. One of our targets was to assess our courses for focus on employability, skill development and entrepreneurship which is a direct outcome of successful industry academia collaborations. We have been able to achieve this goal to a desired level at the end of five years. Over these years we have developed handful of Industry Academia courses, Industry supported laboratories which have helped us take our practice forward. Another milestone event in the same regards has been the Internship program that has been mandated by UGC from R2018. This step has been carried forward by the institution and the students are to undergo internship after their semester examinations. This will help them to understand the technology adopted in the industry. This will also make the students aim and make themselves Industry ready. The table below highlights the number of students placed in companies during the last five years. Every year out of the total students placed more than 30 of students are first graduate students. This proves that we are moving in the right path and we are in the process of improving the percentage of first graduate students getting placed in companies.

S.No	Year of graduation	No of registered students	No of students placed
1.	2016	1043	815
2.	2017	989	786
3.	2018	1012	792
4.	2019	948	753
5.	2020	923	726

6. Problems Encountered and Resources Required A sustainable relationship with the Industry requires a constant networking environment and an ever-growing and adapting nature of the academic workforce, so as we can live up to the expectations of the students and provide them with over the board opportunities to have a prospering career. The institution has always been proactive in taking forward this practice and has provided all the financial and logistic support for training faculty members students at the Industry. Another challenge has been the ever-growing Educational environment especially for us from the southern region, which we have taken for us as the driving force to think out of the box policies in relation to Industry Academia Collaborations. Our Industry Institute Interaction Cell (3I Cell) tackles this challenge and makes regular interactions with Industry and organising seminars, guest lectures that are delivered by the experts from the industry.

Best Practices - II

1. Title of the Practice Green initiatives and usage of renewable energy
2. Objectives of the Practice The objectives and the corresponding intended outcomes of Green initiatives and usage of renewable energy are

1. Expansion of the installation and usage of renewable power sources thereby minimize the power consumption from the grid.
2. Recycle of used water and hence reduce the requirement of fresh water.
3. Use of battery-operated vehicles inside the campus and reduction of pollution.
4. Expansion of green cover inside the campus to attract more varieties of birds.
5. Ban on use of plastics an initiative towards plastic free campus.
6. Completely pollution free environment in the

campus. 3. The Context 1. The conventional fuels are fast depleting and the world have started moving to alternate power sources. With availability in abundance and non-polluting nature, solar and wind sources are the preferred choices among alternate sources. So, the institution has ventured in to the area of power generation using solar energy and has been attempting to expand. 2. Considering the drastic decrease in ground water level, measures are devised to minimize the demand for water. The Sewage Treatment Plant is setup for recycling the grey water is used for gardening. . 4. The Practice 1. A solar PV of 50kW is installed in the institution. About 10 of energy demand is met through solar power. Energy audit is conducted in the campus every year for an inspection survey and an analysis of energy flows or energy conservation inside the campus. It includes a process or system to reduce the amount of energy input into the system without negatively affecting the output. 2. Sewage Treatment Plant (STP) with a capacity of 500 KLD is installed and the same is used for gardening through sprinkler system. 3. In order to reduce pollution inside the

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

<https://kce.ac.in/internal-quality-assurance-cell-igac/>

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

The Vision and priority of Institution is to give utmost importance for students' progression in terms of their education, training, skill development and successful career. Students are offered quality education and training with highly qualified and experienced faculty members. The management provided intellectual and academic capability by Information and Communications Technology (ICT) based teaching within the campus. ICT has differentiated the teaching learning process and its environment by incorporating more practical sessions and involvement of students in various technical and non-technical activities to realize their skills, talents and passion. Students are open to choose courses of their choice under CBCS curriculum under a set of mandatory credits that are to be earned and be eligible for a degree. During induction in first year, the students undergo 14 days induction program "YUVA" where they unwind themselves from the groove of schooling. Students begin their first semester by opting for foreign languages like Japanese, French and German. These courses aid them to pursue higher education in foreign universities. Similarly, in each semester students learn courses that are useful for their professional growth. The syllabus is framed keeping in mind the current needs/ trends. Syllabus is reframed under various regulations to keep them abreast. Students are given courses that are relevant to the industry. Experts from reputed industries handle courses to keep the students informed about the real time examples and case studies. Interdisciplinary courses are offered to students to make them multi-dimensional and to make them flexible enough to suit any industry. Faculty undertake NPTEL courses, Faculty Development Program (FDP) every year to keep themselves updated. Courses such as soft skills are made compulsorily to students so that they can equip themselves with interpersonal and intrapersonal skills that are very much required to get hired. The recruitment season begins at the beginning of Final Year and many companies visit the campus and hire students. Many of the students who are getting hired are first graduate in their family. They share their emotions and joy with their parents during the OFFER DAY which is held every year to felicitate the students after getting placed. It is a sight to behold as the parents feel that they had chosen the right institution for their kids. We, the management and faculty take pride from this for making our students industry

ready and as a good Samaritan. Students who are not interested in placement and opt for other options such as higher studies and entrepreneurship are fed with the skills that are necessary to attain the goal.

Provide the weblink of the institution

<https://kce.ac.in/internal-quality-assurance-cell-igac/>

8.Future Plans of Actions for Next Academic Year

The institutional strategic Plan for the next academic year (2020-21) is prepared by a series of discussions involving the various stake holders of the institute. It starts with the collection of the feedback from various stake holders and discussion at the college level involving the representatives of the management Principal Deans Head of the Departments. And faculty members. Many brain storming sessions were conducted. STRATEGY 1: To introduce new programmes in emerging areas of technology. 21st century is the era of knowledge. The trend is IT enabled services growing leaps and bounces. Hence the major stake holder the students prefer placements to Higher studies. In order to enhance their chance of getting placed the plan is to introduce the following new programmes from the academic year 2020-2021 • B. Tech. Artificial Intelligence and Data Science • B.E. Cyber Security • B.E. Computer Science and Technology The preparations of the curricula and the syllabi for the above programmes are in progress with the inputs from industry alumni and employers as usual STRATEGY 2: To focus more on research and Development of faculty and student community. In addition to Teaching Research adds the core competency of the institution. In order to encourage the publication the institution offers incentives for the faculty members who publish their research papers in Scopus/ SCI/ WoS journals. Seed money assistance is provided to carry out the projects. Awareness is created to the students to convert the projects in to journal papers and journal papers into patent. The plan is to create forum that kindles the creativity of the students to combine and carry out inter disciplinary projects with the guidance of a faculty members. The ultimate objective is to increase the publication in reputed journals apply for projects from various funding agencies by both the student and faculty members In view of the Institutions broad based Action plan for the long term as mentioned above The programme centres are motivated to prepare an Action Plan for every academic year independently. The plan would prepare attainable target based plan / goal under each metrics of NAACs criteria which shall be meticulously followed-up for the successful implementation and its proper documentation.