



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		KATHIR COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr .A.R.Suresh
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04222203778
Mobile no.		9442765776
Registered Email		principal@kathir.ac.in
Alternate Email		kathirce@gmail.com
Address		Wisdom Tree, Avinashi Road, Neelambur
City/Town		Coimbatore
State/UT		Tamil Nadu
Pincode		641062
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr.B.Vaikundaselvan
Phone no/Alternate Phone no.	04222203778
Mobile no.	9843648317
Registered Email	iqac@kathir.ac.in
Alternate Email	kathirce@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://kathir.ac.in/uploads/2019-2020/2018-2019.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.kathir.ac.in/agar.shtml

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B	2.53	2016	24-May-2016	24-May-2021

6. Date of Establishment of IQAC	04-Jun-2019
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Seminar on quality improvement in assessment methods	11-Mar-2020 1	40
Workshop on 360 degree	02-Mar-2020	35

feedback by AICTE	1	
Discussion on model curriculum by AICTE	02-Dec-2019 1	30
IQAC Meeting 2	17-Feb-2020 1	10
IQAC Meeting 1	12-Sep-2019 1	10
Awareness program on Outcome based education	18-Nov-2019 1	35
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
KCE	PMKVY	AICTE	2018 1460	13
KCE	Deen Dayal Upadhyaya Grameen Kaushalya Yojana	Deen Dayal Upadhyaya Grameen Kaushalya Yojana	2018 1460	248
KCE	Cosmogems	Cosmogems	2018 3	3.5
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

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

No

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

Academic Audit

Blooms taxonomy in Assessment

Soft skill training to help improve placements

Usage of online tools to improve course delivery

Research awareness Program

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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
Signing of MOU with industrial organisations	MOU's Signed
International Conference	Organized on 09.03.2019
Student Enrichment Activities	Technical symposium was organized
Academic Calendar	Prepared
Faculty Enrichment program	Conducted
Certification Courses	Conducted
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Management	10-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:

No

17. Does the Institution have Management Information System ?

Yes

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

The Institute has a MIS, Rever Innovations software. The modules currently in operation include the admission application management system, the student on boarding and information system, Learning Management System among others. The HR modules and

Finance modules are currently in the process of implementation.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

Kathir College of Engineering strictly adheres to the curriculum and syllabi prescribed by University. A Program Advisory Committee (PAC) for each department is constituted by the principal to provide guidance for planning curriculum delivery and documentation. This committee periodically conducts meeting to finalize the curriculum delivery methods to be followed by the departments. In order to follow a systematic approach to have an effective teaching, learning and evaluation process, the recommendations provided by the committee are as follows.

- An academic calendar is prepared at the commencement of the semester and becomes the guiding document for scheduling teaching, learning and evaluation activities. It is prepared at the institution level and will be followed by every department before the semester starts. Schedules all the events planned by a department for a semester is included. The calendar is circulated and uploaded in the website for easy reference to students and faculty. The Academic Schedule provided by the University is observed while preparing the Academic Calendar. In addition, the assessment schedule laid down by the University with schedule of internal tests, last instruction day, commencement of end semester theory and practical examinations conducted by the University provides input to the institution's academic calendar.
- A detailed course plan document drives the planning of curriculum delivery and documentation of that subject. It is a vital document that micro-manages the activities to be carried out with regard to the teaching-learning process.
- The Course File is prepared by the faculty members who are assigned the courses, before the start of the semester and it is approved by the respective Head of the Department.
- The Course File which addresses the Course Planning and Delivery aspects, includes 1. Department Vision, Mission 2. Programme Outcomes (PO) 3. Programme Objectives 4. Course Syllabus 5. Course Objectives 6. Course Outcomes (CO) 7. Mapping of COs and POs 8. Identification of curriculum gap 9. Details of Content beyond syllabus 10. Lesson plan 11. Delivery methods / models planned and 12. Guest lectures, workshops planned.
- Course delivery constitutes 1. Course Material 2. List of textbooks, reference books, journals and websites 3. EBooks, E-Materials, video 4. Scope for self-learning 5. Old university question paper 6. Question bank (Unit I to V) 7. Slow learners coaching record
- Evaluation: The valuation scheme considers among other inputs, if the semester is odd or even, public holidays. The schedule for weekly tests, internal tests and model examinations are prepared by the examination cell of the institution. These schedules are integrated into the Academic Calendar for holistic reference and execution. The evaluation is performed in accordance with the curriculum design. The evaluation pattern consists of continuous internal assessment and university examination with 20% and 80 % weightage respectively. The internal assessment element of 20 marks is an average of three internal tests. The internal test question papers are prepared by the subject handling faculty members, indicating the CO and taxonomy level of the questions and reviewed by the HODs before sending it to the Examination Cell.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of	Duration	Focus on employ	Skill
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		Introduction		ability/entrepreneurship	Development
Digital Marketing	Nil	02/10/2019	12	Employability	Yes
Networking	Nil	23/11/2020	12	Employability	Yes
DBMS	Nil	02/11/2020	14	Employability	Yes
Embedded System Processor	Nil	19/11/2019	2	Employability	Embedded Systems hardware
Design of Embedded System issues	Nil	09/01/2020	2	Employability	Embedded Systems design
Opportunities for Entrepreneurs	Nil	30/01/2020	2	Entrepreneurship	Entrepreneurship skills
Advanced CNC Programming	Nil	02/09/2019	1	Employability	Programming Skills
ANSYS for Mechanical Engineers	Nil	02/09/2019	1	Employability	Design Skills
Life skill for Engineers	Nil	24/09/2019	1	Employability	Leadership skills

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science and Engineering	01/07/2019
BE	Civil Engineering	01/07/2019
BE	Electrical Electronics Engineering	01/07/2019
BE	Electronics and Communication Engineering	01/07/2019
BE	Mechanical Engineering	01/07/2019
ME	Applied Electronics	01/07/2019
ME	Computer Science and Engineering	01/07/2019

ME	Manufacturing Engineering	01/07/2019
ME	Power Electronics and Drives	01/07/2019
MBA	Master of Business Administration	01/07/2019

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

	Certificate	Diploma Course
Number of Students	426	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Digital Marketing	09/09/2019	24
Networking	10/02/2020	27
DBMS	02/01/2020	25
Auto CAD	06/08/2019	10
STAAD Pro	10/02/2020	15
Virtual Instrumentation using Labview	17/09/2019	30
VHDL using Xilinx	11/02/2020	45
Advances in 3D printing	20/01/2020	30
Non Destructive Testing	10/04/2020	30
Computational Fluid Dynamics	15/05/2020	30
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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	Mechanical Engineering	44
BE	Civil Engineering	20
BE	Electronics and Communication Engineering	2
BE	Electrical and Electronics Engineering	7
MBA	Master of Business Administration	91
BE	Computer Science Engineering	37
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
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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

The various methodologies are adopted by the institution in order to enhance the teaching quality and the learning process. The structured feedback were obtained from the students, faculty members, the employers, alumni and the parents for further improvement of quality in the teaching learning process. Some of the feedback are collected directly and indirectly from the students are: • Feedback on the subject • Course end survey • Program Exit Survey • Alumni Survey • Feedback on the courses (through the class committee meeting). Some of the feedback are collected through online are: • Employers report about the student performance. • Industry peoples about the student knowledge. Employer's feedback is obtained by Training and Placement officer during campus placements regarding attitude and skills of the students. The feedback is analysed and utilized to improve the students' performance in the subsequent recruitments. Alumni Feedback from alumni obtained during alumni meeting are analysed and considered to prepare the students to meet the industry expectations. Parents Teachers meeting is conducted once in a semester. During the meeting the feedback is obtained regarding college facilities The rating criteria comprises of four parameters: 1. Excellent 2. Good 3. Satisfactory 4. Poor. Based on the feedback from the stakeholders the consolidated report will be prepared. The collective rating of student's response to all questions in feedback is calculated to 100. The action taken against the feedback collected are verified by the IQAC audit team and tracked for the closure of remedial actions suggested. Other Feedback Systems comprises: • Class Committee Meeting (CCM) The class committee members will meet three times in a semester, the date for the meeting will be decided by the IQAC team and the schedule will be published in the notice board of the department. During the meeting the chairperson of CCM will interact with the class committee members and collect the feedback for every subject. The report will be submitted to the HoD and the remedial action will be taken. • Mentor Mentee Meeting (MMM) The Mentor Mentee will meet once in a week. During the meeting the mentor will individually interact with their mentees. The discussion includes performance of the mentee in the university exam, Continuous Internal Assessment, Co- curricular and extracurricular activities. Mentor will suggest point to improve their performance in all aspects. Student's feedback about individual faculty member is analyzed by head of the department. Performance review meeting is conducted for the faculty who have secured less than class average. A Performance review is conducted by a senior team along Head of the Department to motivate the faculty members towards scoring higher student appraisal. Head of the Department along with overall lab incharge analyzed the feedback about lab incharge and lab assistants and motivate them to satisfy the student's requirements towards acquiring technical skills. Feedback on college facilities are obtained from the students are analyzed and the summary is sent to the Management Representative for further action.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
BE	Electronics and Communication Engineering	60	38	34
BE	Electrical Electronics Engineering	60	10	7
BE	Computer Science and Engineering	60	55	51
BE	Mechanical Engineering	120	14	11
BE	Civil Engineering	60	5	3
ME	Applied Electronics	18	Nil	Nil
ME	Computer Science and Engineering	18	10	6
ME	Manufacturing Engineering	18	7	4
ME	Power Electronics and Drives	18	10	5
MBA	Master of Business Administration	60	61	59
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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	656	148	93	20	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
113	113	20	22	6	2

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

Yes, Mentoring system is available in the Institution. The Institution has an effective monitoring system comprising of counsellors/ mentors/ advisors for each student for academic, personal, career and psycho-socio guidance. The mentoring system effectively addresses the concern of the student and enables the students to express/ share their academic and personal difficulties with their respective Advisor and Mentors. The college follows mentor mentee system for counselling, mentoring and to improve the academic performance of the students as well as to understand and solve personal issues of the students. Each class has a class advisor who also acts as a mentor for a group of students. Each mentor is allotted with 15 to 20 students to provide academic, personal and psycho-socio support and guidance. This ensures that every student is allotted a mentor. Students allocated to specific mentor will remain with him/her till the completion of the semester. Then for next semester, new mentors are appointed who are teaching the subjects to the respective class. The mentor maintains all particulars of students in the counselling records. It helps the mentor to evaluate the progress of the student during course of study. Both the class advisor and mentor constantly update the progress of the student to their parents/ guardians. Personal counselling is also given to the student to enhance academic, co-curricular and extracurricular activities. The mentor encourages the student to participate in various activities to enhance the overall development of the student. The counselling system also helps the students to clarify their doubts with the respective faculty and succeed in their examinations. The progress of the mentee is monitored and reviewed frequently to achieve the goals and the same is documented. Mentors encourage, create interest and guide the students to enroll for MOOC/ NPTEL courses and top contests in national/international level. The achievers are encouraged to attend extra classes to cope up with their peers. The progress of the students is periodically informed to their parents through phone call or SMS or through social media platforms and parent meeting is arranged during the need of hour. The mentor establishes the contact with the parents and appraise them about the development of their ward, periodically. Through this mentor-mentee system the institution assures a constructive professional relationship between students and the faculty. Apart from this every teacher is engaged in academic mentoring twice in a week during mandatory office hours which is scheduled after regular working hours of the college. The mentoring system helps the student to overcome any addictive behaviour and understand their areas of strength and weakness.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
804	113	1:7

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
113	87	26	26	5

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	K.V.Kannan Nithin	Professor	Best Academic Researcher Finalist
2019	V.S.Angulakshmi	Associate Professor	6th Academic Brilliance Award
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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-	Date of declaration of results of semester-
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			end examination	end/ year- end examination
BE	114	VIII/IV	29/05/2020	17/08/2020
BE	103	VIII/IV	29/05/2020	17/08/2020
BE	106	VIII/IV	29/05/2020	17/08/2020
BE	105	VIII/IV	29/05/2020	17/08/2020
BE	104	VIII/IV	29/05/2020	17/08/2020
ME	405	IV/II	29/05/2020	17/08/2020
ME	401	IV/II	29/05/2020	17/08/2020
ME	415	IV/II	29/05/2020	17/08/2020
ME	410	IV/II	29/05/2020	17/08/2020
MBA	631	IV/II	29/05/2020	17/08/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

1.The CIE questions are prepared by the subject handling faculty according to the level of understanding of the students. That is whether it is in the category of understanding, Remembering, Application etc 2. The CIE questions are also prepared for the specific portions covered for the particular period of assessment. 3. Once the questions are framed it is reviewed by the subject expert identified by the Head of the Department. 4. The questions are scrutinized in all the aspects and approved by both the subject expert and Head of the Department. 5. Two different set of question paper are prepared for each CIE and the particular question paper for the students is selected by the Exam cell coordinator for each department. 6. The evaluation of answer scripts is carried out by a different faculty having subject expertise and it is approved by a panel appointed by the Head of the department. 7. The evaluated answer scripts are distributed to the students and their grievance if any are addressed by the faculty. 8. All the marks are entered in the University portal periodically. 9. The answer scripts are stored in a strong room for feature auditing. 10. The students are given periodic coaching and encouragement to perform best in all CIE.

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

An academic calendar is arranged each semester dependent on the University academic timetable, Principal conducts meetings with IQAC, HODs and Coordinators Exam cell, Intra collegiate Festival Committee and Sports Committee members. The main purpose of fixing these dates in advance is to enable the departments to plan for their own department programmes and events. This ensures that the curriculum is enriched, also helps the students to plan their academic and extracurricular activities. Based on academic calendar, timetable, course document, lecture notes, laboratory manuals are arranged. The students are persistently surveyed all lecture the semester and the assessment depends on the internal test, model and university examinations. Class tests and internal test empower the staff to recognize the high level and the lethargic students. Progressed students can select self-study courses, testing tasks and analyses moderate students are given remedial coaching

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)

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
405	ME	Computer Science and Engineering	3	3	100
415	ME	Power Electronics and Drives	1	1	100
104	BE	Computer Science and Engineering	37	35	94.59
103	BE	Civil Engineering	16	12	75
106	BE	Electronics and Communication Engineering	54	8	15
114	BE	Mechanical Engineering	72	61	84
631	MBA	Master of Business Administration	32	32	100
105	BE	Electrical and Electronics Engineering	12	7	58.3
410	ME	Manufacturing Engineering	8	8	100
401	ME	Applied Electronics	2	2	100

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2.7 – Student Satisfaction Survey

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

http://kathir.ac.in/uploads/NAAC_Doc/SSS%202019-2020.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year

Interdisciplinary Projects	1095	Cosmogems	3.5	3.5
Minor Projects	1460	Deen Dayal Upadhyaya Grameen Kaushalya Yojana	500	248
Major Projects	1460	AICTE- PMKVY	45	13
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One day workshop on Guidelines for Patent Submission	Civil Engineering	21/11/2019
How to apply Patent easily	Mechanical Engineering	10/04/2020
Research funding	Mechanical Engineering	15/05/2020
One day workshop on Intellectual Property Law	MBA	15/10/2019
One day workshop on patent proposal writing	Electrical and Electronics Engineering	10/02/2020
Workshop on Automotive Electronics	Electronics and Communication Engineering	11/02/2020
Two days workshop on patenting system in India, filing procedure and commercialization	Computer Science Engineering	03/02/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Computer Science Engineering	9	5.2
International	ECE	5	6.43
International	EEE	3	0.8
International	Physics	3	0.56
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
EEE	3
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
COMPUTATION OF SKYLINE FOR AMALGAMATED SERVICE SELECTION USING BOTTOM UP ALGORITHM	Mr.S.M.K .RAMAKRISHNAN	IRJGES	2019	Nil	Nil	Nil
SECURE TRANSMISSION AGAINST SOURCE FORGERY AND PACKET DROPPED ATTACKS	Ms.S.RAJAAMBIKA	IJICE	2019	Nil	Nil	Nil
CO-OPERATIVE VIDEO STREAMING WITH HYBRID VEHICLE M-RELAY NETWORK	Dr.P.BANUMATHI	IJRRSET	2019	Nil	Nil	Nil

USING H.264/SVC							
SECURE TRANSMISSION AGAINST SOURCE FORGERY AND PACKET DROPPED ATTACKS	Ms.T.SAK THI SRTEE	IJICE	2019	Nil	Nil	Nil	Nil
CO-OPERATIVE VIDEO STREAMING WITH HYBRID VEHICLE M-RELAY NETWORK USING H.264/SVC	Dr.C.SUR ESHKUMAR	IJRRSET	2019	Nil	Nil	Nil	Nil
SECURE TRANSMISSION AGAINST SOURCE FORGERY AND PACKET DROPPED ATTACKS	Dr.A.N.N ANDAKUMAR	IJICE	2019	Nil	Nil	Nil	Nil
COMPUTATION OF SKYLINE FOR AMALGAMATED SERVICE SELECTION USING BOTTOM UP ALGORITHM	Dr.T.JOHN PETER	IRJGES	2019	Nil	Nil	Nil	Nil
CO-OPERATIVE VIDEO STREAMING WITH HYBRID VEHICLE M-RELAY NETWORK USING H.264/SVC	Ms.M.KAV ITHA	IJRRSET	2019	Nil	Nil	Nil	Nil
COMPUTATION OF SKYLINE FOR AMALGAMATED SERVICE	Ms.R.SAV ITHA	IRJGES	2019	Nil	Nil	Nil	Nil

SELECTION USING BOTTOM UP ALGORITHM						
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Newfangled Immaculate Trash Can Tracking System	Dr.M.Varatharaj Ms .S.Indhumathi	IJRASET	2020	Null	Null	Kathir College of Engineering
High Level Wing	Dr.M.Varatharaj	JES	2019	Null	Null	Kathir College of Engineering
Opulent Futuristic Smart Sensing Garden	Dr.M.Varatharaj Ms.N.Vani	IJCSE	2020	Null	Null	Kathir College of Engineering
IOT based Refuse Reuse Recycle for Zero Waste Management	Dr.M.Varatharaj	JETIR	2020	Null	Null	Kathir College of Engineering
Smart digital water flow surveillance system using IOT	Dr.M.Varatharaj	JETIR	2020	Null	Null	Kathir College of Engineering
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	7	22	7	11
Presented papers	23	9	6	Null
Resource persons	Null	6	1	4
No file uploaded.				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
KCE Pongal Celebration	KCE	6	500
Design thinking workshop	Tamilnadu Railways	1	100
Kalai Aruvi Science Competition	KCE	2	200
Motor Cycle Relay Rally	YRC with KCE	2	40
Kalakridhaa 2019	KCE	6	300
No file uploaded.			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Best Leader for Skill Development Trainers	Best Leader for Skill Development Trainers	Society of Scientific Research in Association with Alumni Association of Indian Engineers	40
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Road camp	KCE	Awareness camp for safe driving	2	65
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Sponsored Project- Computerized Engine Analysis	Dr.A.R.Suresh	COSMOGEMS	1095
Field Trip- Vidhya Tooling	Students	Kathir College of Engineering	1
Field Trip - Sathya Engg Works	Students	Kathir College of Engineering	1
Field Trip - SVK Industries	Students	Kathir College of Engineering	1

Field Trip - Sandfits Foundries	Students	Kathir College of Engineering	1
Field Trip - Conveyor Tech	Students	Kathir College of Engineering	1
Field Trip - Yathi Pumps	Students	Kathir College of Engineering	1
No file uploaded.			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	AUTOMATIC THEFT DETECTION AND WARNING SYSTEM UNDER VIDEO SURVEILLANCE SYSTEM	Proplus Groups, Coimbatore	02/01/2020	31/03/2020	3
Internship	FAKE PRODUCT REVIEW ANALYSIS	Tekzie, Coimbatore	02/01/2020	31/03/2020	3
Internship	ANDROID BASED E-COMPLAINT SYSTEM	AJ Tech Research Labs, Coimbatore	02/01/2020	31/03/2020	3
Internship	POINT OF INTEREST RECOMMENDATION ENGINE	Tekzie, Coimbatore	02/01/2020	31/03/2020	3
Internship	Basics of AutoCAD, QGIS and ARCGIS	Athira Geospatial Services Private Limited, Chennai	06/12/2019	05/01/2020	10
Internship	Building drawings with AutoCAD	Subramanian Associates, Coimbatore	08/12/2019	07/01/2020	10
Internship	Internship	SS Technovation	03/12/2019	31/12/2019	30
Internship	INNOVATIVE EARING AID FOR BLINDS USING PY	AJ Tech Research Labs, Coimbatore	02/01/2020	31/03/2020	04

AUDIO MODULE					
Internship	PRODUCTIVE AND PROTECTED STANDARD FOR CLOUD-SUPPORTED ONLINE MEDICAL SERVICE	Proplus Groups, Coimbatore	02/01/2020	31/03/2020	3
Internship	AUTOMATIC THEFT DETECTION AND WARNING SYSTEM UNDER VIDEO SURVEILLANCE SYSTEM	Tekzie, Coimbatore	02/01/2020	31/03/2020	3
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Athira Geospatial Services Private Limited, Chennai	02/01/2019	Placement activities	14
Andal Engineering	03/12/2019	Seminar, internship, Placement	32
CADD Technology	05/02/2020	CAD training	42
Hitec Power, Coimbatore	03/07/2019	To develop the skills of the students	52
Lams Automation	13/04/2020	To develop the skills of the students in automation industry	47
No file uploaded.			

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
7.5	7.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
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
OPAC	Fully	Null	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Journals	11500	Null	Null	Null	11500	Null
Digital Database	Null	Null	Null	Null	Null	Null
CD & Video	1410	Null	Null	Null	1410	Null
Library Automation	Null	Null	Null	Null	Null	Null
Text Books	19001	6904076	Null	Null	19001	6904076
Reference Books	10025	3655061	Null	Null	10025	3655061
e-Books	139	337641	Null	Null	139	337641
Journals	209	667213	Null	Null	209	667213
No file uploaded.						

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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	652	450	0	150	0	22	30	30	0
Added	25	12	4	4	5	0	0	0	0
Total	677	462	4	154	5	22	30	30	0

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

30 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

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
150	141	20	16

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

Overall Infrastructure Management: The Institution has an Administrative Officer who oversees the maintenance of the buildings, class rooms and laboratories. A Team lead by the Maintenance Engineer (Civil) supports the Administrative Officer in the overall maintenance of the campus. Painting of the walls is done once in three years and also on requirement basis. The Maintenance Engineer (Civil) goes around the campus regularly, identify and sort out problems with the help of concerned people then and there for minor issues. Repair and Maintenance activities are carried out regularly. Stock verification of assets is done annually and worn out equipment's/components/machines are repaired/replaced. Wherever necessary the college has entered into AMC with various companies for maintaining the equipment and infrastructural facilities. The respective departments are made responsible for maintenance of equipment's and renewal of AMC. The equipment's which are not under AMC are serviced based on the request submitted by the concerned HOD, with the help of the company which has supplied the item or with the help of competent technicians/engineers. **Electrical Maintenance:** A separate Electrical Maintenance team headed by an electrical supervisor exists in the campus. Electrical maintenance covers all aspects of testing, monitoring, fixing and replacement of electrical component/system. The maintenance is carried out by an accredited electrical engineer who has knowledge about the National electric Code and native regulations. **Laboratory Maintenance:** The laboratories are under the control of the respective HoDs. Each lab has a lab incharge and a lab technician. Stock registers and maintenance registers are maintained in laboratories and are audited annually. Faults identified by the lab incharge / lab technicians are rectified by trained technicians after

obtaining approval from the HoD / Principal. Smart Board and System Maintenance: All class rooms are equipped with smart boards and a team of technicians ensure that the boards are working flawlessly. A Professor in charge for smart board, with the competent technical team, is responsible for servicing the smart boards annually. IT Infrastructure Maintenance: System Maintenance team comprising of overall Campus System Manager, System Administrator and a strong technical team maintain the systems in the campus. The periodical maintenance work is being followed as per the schedule below. In addition to this, back up of data and Hard disk clean up and defragmentation utilities are done regularly. Scrap systems are disposed off through buyback systems. Library Maintenance: The college Library is headed by the Librarian. The library resources are maintained by the library team. • Library follows the Government norms for weeding out the worn-out books • Stock verification of the library books is done annually. Sports complex: The Physical Director is incharge of the sports complex and gymnasiums inside the campus. The playground courts are kept tidy and maintained in a Fit for use condition always. Worn-out sports items are replaced annually. The overall maintenance of the Gym equipment's and sports items is the responsibility of the sports department.

<http://kathir.ac.in/uploads/2019-2020/4.4.2.pdf>

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	Nil	Nil	Nil
Financial Support from Other Sources			
a) National	TamilNadu Government Scholarship	401	2174175
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
Personal counselling	16/03/2020	8	KCE Civil Faculty
Remedial coaching for slow learners	18/11/2019	15	KCE Civil Faculty
Remedial Coaching for slow learners	01/08/2019	37	KCE ECE Faculty
Essential Aspects for A Successful Career	16/05/2020	62	Mr.E.Allan Joshua, Content Writer, Zoho Corporation, Chennai
Internet of Things Technology and Its	22/08/2019	46	Mr.M.Mugilan, CTO/RD Head, Monc Technologies

Applications			
Emerging Technologies Innovation	14/09/2019	80	Wipro Limited, Bengaluru
Machine Learning	10/03/2020	40	BuzzTech Training Institute, Coimbatore
Industrial Automation and Robotics	26/06/2019	45	Mr.Rudhra Kumaran.G, Application Engineer, Axis Global Automation Pvt. Limited, Coimbatore
Leadership and Skill Management	03/09/2019	80	Mr.A.Aravindhnan, Chair, Student Activities Committee, IEEE Computer Society India Council LKW REM Scholar, Tedx Speaker

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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	Gate Coaching	60	Nil	Nil	Nil
2019	Career Guidance Program on Government Services Exams	5	10	Nil	5
2019	Career Guidance and Counselling	Nil	72	Nil	Nil
2020	GATE Forum	48	Nil	Nil	Nil
2020	Master's Education Abroad	Nil	38	Nil	Nil
2020	Overseas Education in Canada	Nil	25	Nil	Nil
2020	Career Guidance by Science and	134	Nil	Nil	Nil

	Humanities Department				
2019	A primer on opportunities in the banking sector	110	110	Nil	Nil
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	4

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
Ss Technovation, Sri Andal Engineering, Cadd Technology, Propluslogistics, SIG Technologies, Infotest Lab, C CUBE	94	39	Shri MS Co Pvt Ltd, Integral global Solutions, MS Associates, Just dial Limited, Maha Readymix, TCS, Cochin Shipyard, Jayem Automotive, Sakthi Ancillary, KLR Technologies, WIPRO, I EXPLORE CORP, OASYS	77	41
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	BE	CSE	Kathir College of Engineering	ME (CSE)
2020	1	BE	ECE	MIT	M.E. - Wireless Technologies
2020	1	BE	Mech	Dr. NGPIT	ME

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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
No Data Entered/Not Applicable !!!	
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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
Sports	Intra college level	10
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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
No Data Entered/Not Applicable !!!						
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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)

Our pioneering Institute involves our students in all the activities of the College right from curricular to co-curricular and extra-curricular activities. Students are fine-tuned from first year through final year in lot of academic activities such as 'Class Committee Meeting', 'Library Advisory Committee', Grievance Redressal Cell, etc. Class committee meetings are conducted at regular intervals and the constitution of the class committee meeting consists of average, above average and below average students along with subject handling faculty members and Head of the department, hence, the students' participation and suggestions are registered and rectified then and there. This is an ample example of students' involvement in academic administration. In the same fashion, students take part in Library advisory committee meetings and share their valuable opinions in bringing reforms in library. In addition, they outline the books, journals (National and International), e-journals and magazines useful to their studies and research. During University examinations, the library hours are extended based on the suggestions of student members of library advisory committee. Further, Grievance redressal cell consists of student members in its cell in order to redress their grievances pertaining to academic and general. Correspondingly, in co-curricular activities, students are given opportunity to involve themselves in various portfolios such as President, Vice-President, Treasurer, Secretary and Member in 'Department Associations', 'Entrepreneur Development Cell', ISTE, IEEE, SAE IE (I) student chapters, 'Hostel and Mess committee', 'Anti-Ragging Committee', etc. Departmental associations are being run by the students of the concerned departments and they themselves arrange 'Symposiums', 'Conferences' and 'Workshops' on latest trends in Engineering and Technology once in a year with the guidance from the Head of the Department as well as from the faculty members. On the other hand, Entrepreneur development cell plays a key role in creating future entrepreneurs among the students of the College. 'Guest Lectures', 'Seminars' and 'Workshops' on Entrepreneurship are being arranged by the student members of EDC to encourage their peer group to have their 'Start-

ups'. Members of various students' chapters, 'Anti-Ragging Committee', 'Hostel and Mess Committee' give a chance for the students to learn about the administrative problems and execute an appropriate solution for those difficulties. These managerial level activities bring out hidden leadership qualities of the students during their under graduation / post-graduation studies itself. Similarly, students from first through final year involve in extra-curricular activities such as 'Sports Club', 'Debate Club', 'Fine Arts Club', 'Photography Club', etc. It is mandatory that all students of the college should have been enrolled in any one of the clubs and must participate in all its activities in order to sharpen their skills in all arenas. These extra-curricular activities bring out the innate traits of the students. Another area, where students' participation is highly appreciable, is 'Training and Placement Cell'. All through the year several 'Personality Enhancement Programmes' are being conducted based on students requirements. Our students' involvement and participation in various administrative bodies show that how they are encouraged to be a part of decision making in all administrative levels.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The main objectives of alumni association are 1. To promote and foster mutually beneficial interaction between Alumni and the Institute. 2. To encourage the Alumni to take abiding interest in the process and development of Institute. 3. To arrange and support in placement activities for the students of Institute 4. To encourage the students of the Institute and members of the Association for research development work in various fields like engineering, computer Industrialization etc. 5. To mentor the students of the Institute for higher education, development of character and being GOOD citizens. 6. To provide scholarships to deserving students of the Institute for the purpose of education and sports. 7. To encourage and guide the students of the Institute on self employment to become entrepreneurs. 8. To guide students of the Institute on various professional avenues available and support them through various activities such as expert advice, seminars, visit etc. 9. Promote the Industry Institute interaction to bridge the gap between industry requirements and education offered and enhance student's employability. 10. To encourage and support students of the Institute in sports, cultural and extracurricular activities. 11. To organize debates on various social issues Sighting the above objectives of Alumni Association, our alumni contributes in many ways for the development and betterment of our Institute. Our students and Institute are benefited in various fields such as student placement, training, expert lectures, career guidance sessions, Industrial visits and mentoring. The alumni of Institute is guiding and nurturing our students to become engineering professionals. It is our plan to develop everlasting relations with our alumni which in turn will give rise to mutual benefits.

5.4.2 – No. of enrolled Alumni:

157

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

39250

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meeting was organized on 15.12.2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

In the academic year 2019 – 2020, the process of strategy development was decentralised with regard to: 1) Admissions for the respective departments and 2) Training of students for placement of department students. Admissions for the respective departments The institute has taken note of the need for each department to plan, and organise the admissions strategy and training for placement strategy to better meet the needs of their prospective students and their current students and has accordingly decentralised the same. The COVID pandemic also necessitated such a decentralisation to better make use of each department's unique advantages, proximity to prospective students, and resources. The department level strategy for admissions and training for placement was supported at the institutional level by allocation of financial budgets, marketing collaterals, and other resources. The strategy meetings were conducted at the department level with the participation of all faculty members of the department. This approach enabled contribution by all faculty members. All faculty members weighed in with their experiences, insight and professional contacts. The department level admission strategy included mapping geographical areas for addressing prospective students at schools off-line and online through open sessions and at other forums of the school for meeting and interacting with them, and their teachers. The decisions about fee concessions for meritorious students, deserving students were also in the purview of the respective departments with due approvals from the institution's top management. Training of students for placement of department students The training needs of students of each department are unique. This need for a distinctive training strategy addresses the general aptitude and also the domain specific training needs. However, wherever possible the training needs were integrated across departments and addressed by an integrated training plan. The integrated training plan also brought the per- students-training-cost to a more affordable level. The training needs assessment also included identification of organisations for in-plant training. The training needs were assessed by a baseline test for general aptitude and for the technical domain preferred by the students along with inputs from the faculty mentors, class advisors, and the Head of Department. The above mentioned decentralisation saw increased participation from faculty members and also the involvement of student representatives. The top management institutional support was also encouraging.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	The Institute follows curriculum and syllabi framed by Anna University, Chennai. The Institution follows the academic calendar framed before the commencement of semester. The academic, co-curricular and extracurricular activities are regularly planned through the academic committee. The lesson plan is prepared before the commencement of classes and delivered

using modern pedagogical tools. The curriculum delivery is done in the classrooms as per the Timetable. Learning opportunities beyond the syllabi are provided through study tours, industrial visits, special lectures by resource persons, workshops/seminars/conferences etc. Student participation in other workshops/seminars/conferences/competitions, internships extra-curricular activities, sports activities is encouraged. Service and extension-related learning through camps and organizing events for social causes is also organized.

Teaching and Learning

The Institute follows the guidelines of the affiliating University, Anna University for academic schedule. To ensure the quality of teaching-learning, the Institute practices Outcome based education. The course plans are recorded before the commencement of classes. The completion of syllabus coverage is regularly monitored by Head of the Department. The Institute encourages faculty members to attend faculty empowerment programs, periodically for the effective implementation of outcome-based education. Feedback mechanisms such as oral and written feedback are obtained from students periodically for each subject and overall, to ascertain the quality of curriculum delivery and incorporate workable suggestions of students. Mentoring system with a mentor assigned to each group of students. The teachers are encouraged to develop e-content and usage of ICT tools for effective teaching learning process.

Examination and Evaluation

The Institution follows a strict evaluation process as given by the guidelines of Anna University. The evaluation is done periodically in line with the academic calendar of Anna University ensuring transparency in the process of scheduling and conducting the Internal Assessment tests. The schedule of tests is informed to the students well in advance and the evaluated scripts are displayed to the students after the exams are over. The Grievances during the tests are resolved in time bound manner and malpractice during the exams is

prohibited. The slow learners are counselled and motivated by the faculty and HoD to achieve success in their exams by improving their learning ability.

Research and Development

The Institute motivates the faculty and students to submit project proposals and publish research articles in highly reputed Journals and Conferences. The Institute also supports the faculty to carry out consultancy projects, collaborative research projects. Centres for research and Centres for excellence are also established to inculcate research practices among the students and faculty. Strong encouragement to faculty to complete their PhD is given by the Institution. The faculty are motivated to engage in minor or major research projects and obtain grants from the university or the UGC and encouragement for the faculty to participate in conferences and present their research work is also provided.

Library, ICT and Physical Infrastructure / Instrumentation

The library holds a good stock of textbooks, reference books including the books mentioned in the prescribed syllabi of the affiliating university. Our library has the facility of e-journals like Springer and Delnet are accessible for the students and the faculty members that help them to update their knowledge in the field of their study. The library houses a digital library section, where e-books and resources like NPTEL videos etc are made available. A minimum of 50 students make use of facilities available in the digital library. The classrooms have ceiling mounted LCD projectors connected to computers, sound system, and pull-down screens. Internet accessibility is provided for staff and students.

Human Resource Management

The Institute has well defined organizational hierarchy with participative management to provide effective governance and leadership. Extensive use of participatory management/decentralized governance for capacity development and leadership among staff is practiced. Multiple opportunities for leadership for various assignments/tasks/responsibilities are made available to staff and students.

	<p>Faculty members are encouraged to attend seminars/conferences, present papers, avail of refresher courses to keep abreast of changing times/advancements. Further the Institute provide operational autonomy to the Departments in academic pursuit and decision-making process. The Institute has well-structured Performance Appraisal system for teaching and non-teaching staff. The Institute also has an efficient Financial Management system through regular audits.</p>
Industry Interaction / Collaboration	<p>The strength of the Institution includes the range of tie-ups and linkages/networking with other organizations to effectively operationalise the curriculum. The Institute has signed functional MoU's with various industries covering different departments. Exposure visits, study tours, extension work, student placements, student internships, partnership/sponsorship for events/programs, access to research facilities, access to/sharing of expertise, research collaborations, and cultural and educational exchange programs are the outcomes of these linkages.</p>
Admission of Students	<p>The admissions of the students are strictly followed as per rules and regulation based on the Government of Tamil Nadu and AICTE norms for admissions in UG and PG programmes. Admissions are done through regular counselling and management quota. To ensure publicity and transparency in the admission process, a separate Admissions Department exists, and they advertise in local National dailies, and in our Website.</p>

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

E-governance area	Details
Planning and Development	<p>Rever Innovations software is used for planning various academic activities at the Institution. Google sheet and MS Office is used for Official documents, Data Storage of academic and administrative nature.</p>
Administration	<p>Rever Innovations software is used for Management Information System at the Institution.</p>

Finance and Accounts	Finance and accounts uses Tally and MS Excel for carrying out accounting activities.
Student Admission and Support	Rever Innovations software is used for for managing the student's details and their fees details.
Examination	Various activities pertaining to examinations are carried out through Anna University web portal coel.annauniv.edu. Periodic entries for Internal marks and attendance are carried out in this portal by the faculty and results are published in this website. The students are provided with individual login id and can check their assessment entries and University examination results through this website

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Suresh. A.R	International Conference on Advances in Material Science and Nanotechnology- ICMN 2K19	Stella Marys College of Engineering Azhikal	500
2019	Dr. Rajan. K	International Conference on Recent Developments-Mechanical Engineering ICRDME 2019	SA Engineering College	1000
2019	Dr. P.Ravi Kumar	ISCO 2019	Karpagam College of Engineering	1000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Guest	Nil		Nil	20	Nil

	lecture on the title "Advances in Robotics, Mr.Sampath , Senior Manager, Hirotech Automation		22/08/2019			
2019	Nil	Two days Hands on Training Programme onWelding, Machining, Engine Assembling	09/12/2019	Nil	Nil	7
2020	Nil	One day Hands on Training Programme onRefriga tion and Air condit ioning service	22/01/2020	Nil	Nil	9
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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
Short Term Training Program on PEDAGOGY ON EMOTIONAL INTELLIGENCE SKILLS FOR CAREER GROWTH AND SUCCESS	2	01/07/2019	06/07/2019	6
One Week Faculty Development Program on Latex and Xfix	5	15/07/2019	19/07/2019	5
One day Workshop on clean technologies	19	17/08/2019	17/08/2019	1
Short term Course On 2D	17	29/06/2019	01/07/2019	3

and 3D drawing in Autocad in Udemey				
FDP on Behaviour of Structural Systems	3	22/05/2020	24/05/2020	3
FDP(Augmented Reality/Virtual Reality)	2	27/05/2019	29/05/2019	3
FDP(Theory of Computation)	3	10/06/2019	12/06/2019	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
Nill	26	Nill	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Appreciation for producing 100 results in theory subjects and 85 and above results in analytical subjects in end semester examinations in the subjects handled.</p> <ul style="list-style-type: none"> • Monetary incentives for publication / presentation of papers in peer reviewed Journals and Conferences. • Granting permission for attending Conferences, Seminars, Workshops, Faculty Development Programme, etc.[50 of registration fee] • Permission to register for doing M.Phil/ Ph.D. programmes to enhance their qualifications. • Some other benefits such as Group Medical Insurance, Medical Leave Facility, On duty facility, Provident Fund, ESI, etc 	<p>Permission to do higher studies to enhance their qualifications. ESI and PF contribution by the Management Group</p> <p>Insurance Concessional Transport Facility Leave facility such as Casual Leave, Medical Leave and Maternity Leave Facility</p>	<p>The students scholarship schemes such as Yoga Single Parent Scholarship :Student with Single Parent No Parent Scholarship :Student with No Parent alive Deserving Student Scholarship Deserving Student who excel in Curricular, Co-curricular Extracurricular activities Scholarship for the deserving sports students Best Outgoing Student [BOG] Award for final year student with monetary benefit. Outstanding Student Award for II and III year student with monetary benefit. Remission of Travel and Registration fee for achievers in CoCurricular activities. Support for getting Educational Bank Loan / Financial Assistance from Private Trust.</p>

6.4 – Financial Management and Resource Mobilization

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

The institute regularly follows Internal external financial audit system.

Internal auditing is a continuous process in addition to the external auditors to verify the entire income, expenditure and the capital expenditure of the institute each year. Internal Auditors team has been appointed and the team checks and verifies all vouchers of the transactions that are carried out in quarterly basis. Likewise an external audit is also carried out on an elaborate way. The institutional accounts are audited regularly by both Internal and external audits. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected and precautionary steps are taken to avoid such errors in future.

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

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

6.4.3 – Total corpus fund generated

95678

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	External Experts from reputed Institutions	Yes	Internal Faculty Coordinators
Administrative	Yes	K.P.Vasanthakumar Agency, Anna Nagar, Chennai	Yes	Accounts

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

1. During the meeting, the parents are informed about the Attendance of the ward, internal marks, dress code, code of conduct and the overall academic performance of the student. 2. Parents suggest the ways and means for the development of the college during parents meeting. 3. Educative programmes for parents are offered through these kind of gatherings. Parents are oriented on online fee payment system, usage of online education, handling of present day youth.
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6.5.3 – Development programmes for support staff (at least three)

Permission to do higher studies to enhance their qualifications. Frequent training programmes are conducted to upgrade their skills. They are sent for Industrial training during vacation to improve their skills Programme targeting Ethics, Team Building, Leadership skills, etc is conducted once in a month

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

1. Effective implementation of Outcome Based Education (OBE) and Choice Based Credit System (CBCS) is in practice. 2. CBCS offers a range of choice for students to choose from Professional Core and Electives, Open Electives, Engineering and Basic Science, Humanities and Science courses and Employability enhancement courses. 3. Internships / Field visits and career-oriented training
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incorporated in the curriculum 4. To inculcate lifelong learning, the Institution motivates faculty members and students to complete one course per year in self-learning mode through online portals like NPTEL, SWAYAM, Udemy, etc

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
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	Awareness program on Outcome based education	18/11/2019	18/11/2019	18/11/2019	35
2019	IQAC Meeting 1	12/09/2019	12/09/2019	12/09/2019	10
2020	IQAC Meeting 2	17/02/2020	17/02/2020	17/02/2020	10
2019	Discussion on model curriculum by AICTE	02/12/2019	02/12/2019	02/12/2019	30
2020	Workshop on 360 degree feedback by AICTE	02/03/2020	02/03/2020	02/03/2020	35
2020	Seminar on quality improvement in assessment methods	11/03/2020	11/03/2020	11/03/2020	40

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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 Empowerment Program	08/03/2020	08/03/2020	255	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

Roof top solar panel with a capacity of 35 kW. 31.25 percentage of power requirement of the college is met by the renewable energy sources

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	10/01/2020	1	Blood donation camp	Donated the blood to a hospital	25
2020	1	1	06/03/2020	1	Tree Plantation	Provided green cover	30
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Students Hand Book	20/05/2019	Separate code of conduct hand book is available for the students
Faculty Service Rules	03/06/2019	Staff Members follow the service rules and promotion policies of the Kathir College of Engineering.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2019	15/08/2019	30
Pongal celebration	13/01/2020	13/01/2020	100
Republic day	26/01/2020	26/01/2020	40
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Installation of Solar Panels to explore renewable energy sources
Campus is free from polythene carry bags
New saplings are added to increase the green cover of the campus
Paperless office
Rain water harvesting
Minimizing Water Wastage

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-1: TITLE: Improving academic performance for moderate students
Objective of the Practice: • To impart normal learning practice for moderate students • To accomplish anticipated academic performance • To empower the moderate students to finish the degree within the specified time • To empower the moderate students to meet all requirements for placement drives
The Context In consistently around 30 of students were discovered to be qualified in higher secondary education with below half in their total. This influences their academic performance which affects college and individual department academic objectives. Subsequently, in every department, the students with below 60 marks in higher secondary education are distinguished as moderate students. To empower the moderate students to adapt to the Anna University courses and to perform better, the Institution have started extraordinary training class for moderate students
The Practice: • Mentoring and checking the moderate students subject wise and ability of the concepts is talked about in the class. • Guiding Special Coaching classes for moderate students between 3 p.m. to 4 p.m. week days and at 11 a.m. to 12.30 pm on Saturdays to improve their presentation. • Guiding intermittent tests during 3.00 p.m. to 4.00 p.m. on week days • Tasks are given on themes, which are repeated regularly in university examination. • Preparing on repeated and most expected university questions. • Instruction given well in advance about the portion for internal examinations. • Appropriating and talking about answers with moderate students after completing the internal examinations. • Pointing on academic and personal matters
Evidence of Success: • Our students have exposed improvement in their academic performance • students have effectively finished their courses in the specified time. It can be seen that there is an improvement of 25 of students have finished their program during the academic year 2018-19. • The students have educated time management to finish their course. • The achievement rate in the final exam has been improved after the conduct of moderate students class • It is perceived that there is significant progress in the pass percentage moderate students
Best Practice-2: TITLE: Placement training programs and training for competitive examinations
Objectives of the practice: • To inspire most extreme number of students to enroll in training and placement cell • To prepare the students to get complete the placement test and evaluation • To build the quantity of students placed during every year • To prepare the

students to meet competitive assessments positively The context: The opportunities set by the companies continue to change step by step. The present innovation world is extremely unstable. This is demonstrated in the field of IT where greater part of our college placements occur. To address the issue of unemployability, high unstable of innovation we need to give more attention on eternal upgradation of skills. The training program that we plan and convey centers around relational skills, aptitude, soft skills, center competency, programming basics, progressed programming and so on. The adequacy of the training program estimated utilizing different outsider appraisals. We have planned our placement program as given below, so all hard soft skills preparing are planned judiciously on each of the four years of the training. I year - Communication Skill development II year - Placement training on soft and hard skills III year - Boot camps IV year - Placement The practice: The department of training and placement designs and implements training programs, appraisals, and other support accomplishments. Here is the list of activities that we convey to our students. Here is the list of programs that we deliver to our students.

- Soft-skills training program
- Infosys campus connect program
- Aptitude training program
- Boot camp on Phython Programming
- Top Coders event
- InfyTQ certification training program
- The department-specific technical training program
- Wipro TalentNext J2EE training program (JAVA, DS and Oracle)

Evidence of Success We can see revolution in the students' expertise level post-execution of these practices. We had the option to see improvement on

- Improvement of practical thinking ability
- Quicker critical thinking capacity
- Improvement on the certainty level
- Continuous learning and practice
- Development on the self-confidence level

Number of students placed in the reputed organization has shown progress

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

<http://kathir.ac.in/uploads/2019-2020/7.2%20Best%20Practices.pdf>

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

Kathir College of Engineering knows that Quality of learning can never be isolated from Research activities at different levels. Hence, Laboratories are established by the management to support research activities of faculty members and students. Students are encouraged to involve in research activities such as 'Research Paper Presentation' in National conferences and International conferences all over India. Also, faculty members are encouraged to publish 'Research papers' in National and International Journals to carry out their research in different core areas. This student faculty research culture kindles the interest of all other students to involve in research activities. Kathir College of Engineering aims to be an institution par excellence in research activities along with world class learning environment. To support the research activities, Kathir College of Engineering has:

1. KCE - IIT Bombay Remote centre for Applied Research and Workshop Interaction: IIT Bombay Remote Centre has been established in our College to conduct online 'workshops' / 'seminars' for faculty members of Engineering Colleges in and around Coimbatore. The facilities of the centre are also available for general public to conduct Web conferences.
2. KCARDS Centre for Embedded System Research and Development: KCARDS Lab is one of the state of art laboratories where in the students are exposed to carry out projects starting from the basic level to the higher level in order to complete a product based project at the end of their course.
3. KCE - National Instruments centre for innovation using LabVIEW: National Instruments (NI) LabVIEW Academy has been set up in the campus with an investment of Rs 25 Lakhs. It houses the latest hardware and software necessary

for training the students in the area of Automation. The students trained in this Centre can take up the CLAD exams and get the chance of placement in MNCs and Blue chip companies. 4. KCE - Texas Instruments Centre for Industrial Automation: This laboratory has been established in collaboration with Texas Instruments (TI) with the sole aim of providing an in-depth understanding of 'Analog Electronics and its applications' for the students of EEE and ECE. Training programmes are organised now and then on 'Analog electronics' for both faculty members and students.

Provide the weblink of the institution

<http://kathir.ac.in/uploads/2019-2020/sss.pdf>

8.Future Plans of Actions for Next Academic Year

1. Seek Online International Engagements at both the Faculty and Student Level which does not require travel. 2. Build collaborations with Bodies/Organizations in Government/Private Sector. 3. Consider UGC sponsored Centres or Programs that can be implemented. 4. Introduce Online/Offline Add-on Certificate Courses. 5. Introduce Online/Offline Skill-based/Value-Added Courses. 6. Organize Online/Offline Faculty Development Programs. 7. Organize International and National Webinars/Conferences/Symposia. 8. Develop Entrepreneurship Programs. 9. Organize Pre-Placement Talks, Workshops, Fellowship and Internship Programs. 10. Organize Job Talks and Workshops with Academic and Research institutions. 11. To initiate the procedure for academic autonomy. 12. Applying for 2nd cycle of NAAC. 13. Applying for NBA. 14. To develop networking with international universities. 15. To encourage students to opt for summer training programs in international universities. 16. To increase the number of students undergoing industrial training/internship. 17. To increase research publications indexed journals