



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		KATHIR COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr.P.Murthi
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04222203778
Mobile no.		8220772148
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/AQAR_Link_Doc/1.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	05-Jun-2018
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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
Orientation Program for CBCS	05-Jun-2018 1	30
IQAC Meeting 1	14-Sep-2018 1	10

IQAC Meeting	20-Feb-2019 1	11
Accreditation Awareness Program	08-Mar-2019 1	70
Discussion on the new format of NAAC	14-Mar-2019 1	35
Internal Audit	02-May-2019 1	35
Accreditation Awareness Program	09-May-2019 1	30
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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
No Data Entered/Not Applicable!!!				
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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

Motivation to students for participating in Innovative programs

Feedback System

Faculty Empowerment Programs

Research awareness Programs

[View File](#)

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 24.03.2018
Student Enrichment Activities	Technical symposium was organized
Academic Calendar	Prepared
Faculty Enrichment program	Conducted one program for each department
Certification Courses	Conducted
View File	

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Management Team	18-Jul-2019

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

The institution is affiliated to Anna University, Chennai. Accordingly, we follow the curriculum designed by Anna University, Chennai. Going beyond the University curriculum and based on the Program Advisory Council (PAC) recommendations, value added courses and content beyond syllabus are framed for which the institution designs the curriculum. In order to have an effective teaching, learning and evaluation process, Kathir College of Engineering (KCE) follows a systematic approach beginning with the preparation of the academic calendar. The 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 by every department for every programme before the semester starts. It schedules all the events planned by a department for a semester including the common events conducted by the institute. 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. The Course Plan document further drives the planning of curriculum delivery and documentation. 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 concerned faculty members for all the courses before the start of the semester and it is approved by the respective Head of the Department. The Course File addresses the Course Planning and Delivery aspects.

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 : 1. Course Material 2. List of textbooks, reference books, journals and websites 3. EBooks, E-Materials, video (To be written in a DVD and attached) 4. Scope for self-learning 5. Old university question papers 6. Question bank (Unit I to V) 7. Slow learners coaching record

Evaluation: The evaluation scheme considers among other inputs, if the semester is odd or even, public holidays, course plan and 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 the three internal tests. The internal test question papers are prepared by the subject handling faculty members and reviewed by the HODs before sending it to the Examination Cell. The end semester examinations are conducted by Anna University, Chennai

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Employment opportunities in government,	Nil	05/03/2019	1	Employability	Employability Skills

public and private						
Basics on 3d printing	Nil	02/07/2018	20	Employability	Design skills	
Personality development	Nil	02/07/2018	20	Employability	Communication skills	
CAE in Automotive Industries	Nil	02/07/2018	20	Employability	Design skills	
Programming in C	Nil	06/09/2018	15	Employability	Programming skills	
Programming in Python	Nil	11/10/2018	15	Employability	Programming skills	
Application of Industrial Robotics	Nil	27/07/2018	2	Employability	Application Development skills	
Control system in Industry field	Nil	06/09/2018	1	Employability	Hardware design skills	
Amplifier used for Communication	Nil	11/10/2018	1	Employability	Hardware design skills	
Hardware product design based Arduino and IoT	Nil	08/02/2019	2	Employability	Hardware design skills	
Recent challenges in Mobile Computing	Nil	22/02/2019	2	Employability	Hardware design skills	
Project to Product	Nil	01/03/2019	1	Entrepreneurship	Entrepreneurship skills design skills	
Embedded Systems	Nil	08/03/2019	2	Employability	Hardware design 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	02/07/2018
BE	Civil Engineering	02/07/2018
BE	Electrical Electronics Engineering	02/07/2018
BE	Electronics and Communication Engineering	02/07/2018
BE	Mechanical Engineering	02/07/2018
ME	Applied Electronics	02/07/2018
ME	Computer Science and Engineering	02/07/2018
ME	Manufacturing Engineering	02/07/2018
ME	Power Electronics and Drives	02/07/2018
MBA	Master of Business Administration	02/07/2018

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

	Certificate	Diploma Course
Number of Students	766	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
C	22/08/2018	75
Python	04/02/2019	75
Life skill for Engineers	22/08/2018	30
MATLAB for Mechanical Engineers	04/02/2019	30
Hands on training in TI-Tiva C series microcontroller	20/08/2018	30
Workshop on Arduino microcontroller	11/02/2019	45
STAAD PRO	10/09/2018	45
AUTOCAD	06/02/2019	50
Workshop on Yoga and Demonstrations of various Asanas	20/08/2018	40
Self Defense Course	06/09/2018	65

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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	Computer Science and Engineering	43
BE	Civil Engineering	25
BE	Electrical Electronics Engineering	4
BE	Electronics and Communication Engineering	27
BE	Mechanical Engineering	44
MBA	Master of Business Administration	32

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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
<ul style="list-style-type: none">• The institution collects structured feedback from all the stakeholders on the teaching learning processes, facilities in the institution, course outcome, programme outcome, outcome based education etc.• Feedback from students is obtained on teaching learning processes at the end of the course. The feedback is analysed and corrective actions are carried out to improve lecture delivery, conduction of labs, value added programmes, etc.• Every semester feedback is obtained from students about the facilities in the institution. The feedback is analysed and the required changes are made according to their needs.• Through online forms and in person feedback is obtained from employers about the program outcome and the progress of our alumni employed.• The alumni feedback on program outcome is obtained when alumni visit the institution, during alumni meet organised in the institution and also places where alumni meets held.• Parents meeting is convened once in every semester to get the feedback about the progress of their wards, improvement needed in the facilities.• The structured feedback received from the stakeholders, is consolidated by the Head of the departments and submitted to the Head of the Institution 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	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
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MBA	MBA	60	49	45
ME	Power Electronics and Drives	18	8	5
ME	Manufacturing Engineering	18	25	11
ME	Computer Science Engineering	18	15	5
ME	Applied Electronics	18	10	2
BE	Mechanical Engineering	60	80	47
BE	Civil Engineering	60	20	14
BE	Electrical and Electronics Engineering	60	39	18
BE	Electronics and Communication Engineering	60	80	20
BE	Computer Science and Engineering	60	70	48
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	817	149	72	19	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
91	91	20	22	6	Nil
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 College has a monitoring system comprising of mentors/ advisors for each student for academic, personal

and psycho-socio guidance. This enables the students to express/ share their academic and personal difficulties with their 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. The mentor maintains all particulars of students in a progress card and the counselling records. Daily evening hours by each faculty stays after college hours for counselling the students which helps the faculty to have individual attention for the needy students. It helps the mentor to study how far a particular student has been successful in his/her academic career. Both the class advisor and mentor constantly update the progress of the student to their parents/ guardians. The mentors are guiding and supporting the students to enhance academic, co-curricular and extracurricular activities. It helps the students to clarify their doubts and to get know the available opportunities for their career development. In association with the mentees, the mentor assigns the target on co curricular, extracurricular and other activities at the beginning of the every academic year. The progress of the mentee on the targets 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 and parent meeting is arranged during the need of hour. The students, who are having personal problems, are guided to meet the special counsellor so as to resolve the concerns. Through this mentor-mentee system the institution assures a constructive professional relationship between students and the faculty.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
966	91	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
91	68	23	23	4

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
2018	Dr T.K.P.Rajagopal	Associate Professor	Excellent Global Leadership Managerial Achievement Dedicated Innovative Academician Award
2019	Dr T.K.P.Rajagopal	Associate Professor	LIFE TIME ACHIEVER AWARD- 1st Global Outreach Research and Educational Summit Award 2019, Organized by The Global Outreach Research Education Association (GOREA), Jaipur, Rajasthan, India

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
MBA	Master of Business Administration	IV/II	21/05/2019	23/06/2019
ME	Power Electronics and Drives	IV/II	30/04/2019	23/06/2019
ME	Manufacturing Engineering	IV/II	30/04/2019	23/06/2019
ME	Computer Science Engineering	IV/II	30/04/2019	23/06/2019
ME	Applied Electronics	IV/II	30/04/2019	23/06/2019
BE	Mechanical Engineering	VIII/IV	29/04/2019	23/06/2019
BE	Electrical and Electronics Engineering	VIII/IV	29/04/2019	23/06/2019
BE	Electronics and Communication Engineering	VIII/IV	29/04/2019	23/06/2019
BE	Computer Science and Engineering	VIII/IV	29/04/2019	23/06/2019
BE	Civil Engineering	VIII/IV	29/04/2019	23/06/2019

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

•The CIE is conducted as per the guidelines of Anna University. In a semester three CIA tests are planned for a course and 20 of total internal marks are awarded through the same. •A question bank is prepared by every faculty for the respective courses and provided to the students. •The CIA test questions are framed by the course instructor with Part A (10 two mark questions) and Part B (2 fifteen mark question). •Every question is mapped to satisfy the course outcomes for every course. This is required to measure the attainment of course outcomes as per outcome based education. •Also every question is mapped with Blooms taxonomy levels. This will indicate the complexity level of the questions. •The marks scored by the students in the CIA tests are published to ensure transparency. •The course instructors prepare the scheme of evaluation for the courses they handle. •The students will also be provided with the scheme of evaluation to ensure transparency. •The internal marks computed based

on the CIA 1, 2, 3 are also published to ensure transparency.

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

Institutional calendar has been prepared and aligned with University academic calendar. In addition to events proposed by the university in academic calendar, Institute has introduced many other events which are useful in overall development of the students. The Academic Calendar serves as an information source and planning document for students, faculty, staff and departments. The Academic Calendar includes Holidays, Start and end date of curricular sessions, Assessment Exams and tentative University exam dates Co-curricular and extracurricular activities. All courses are handled as per the schedule in the academic calendar. For each course, a course file is prepared by the subject handling Faculty in a given format. The course file consists of syllabus, detailed course information with course outcomes, Mapping of COs and POs, continuous assessment question papers and sample answer sheets.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.kathir.ac.in/aqar.shtml>

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
410	ME	Manufacturing Engineering	6	3	50
631	MBA	Master of Business Administration	30	24	80
114	BE	Mechanical Engineering	139	60	43
106	BE	Electrical and Electronics Engineering	22	9	41
105	BE	Electronics and Communication Engineering	47	19	40
104	BE	Computer Science and Engineering	32	18	56
103	BE	Civil Engineering	59	23	40

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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%202018-2019.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
Industry sponsored Projects	730	V.K.T.Ginning mills	3	3
Interdisciplinary Projects	90	KCE	0.15	0.15
Minor Projects	1095	COSMOGEMS	5	5
Major Projects	1825	Deen Dayal Upadhyaya Grameen Kaushalya Yojana	500	248
Major Projects	1825	AICTE- PMKVY	45	13.04

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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
Scope of IPR	Mechanical Engineering	13/06/2018
Role of Intellectual property in Entrepreneurship	Electronics and communication Engineering	09/10/2018
Research opportunities in DRDO	Mechanical Engineering	13/10/2018
Current Issues in Intellectual Property Rights in India	Computer science and Engineering	08/10/2018
One day workshop on patent proposal writing	MBA	05/04/2019
Intellectual Property Rights and Innovation	Electrical and Electronics Engineering	22/06/2018
One day workshop on Research proposals and Grants	Civil Engineering	16/08/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Educational	Kathir	The Society	25/06/2018	Excellent

and technical Institution Award	College of Engineering	of Innovative Educationalist Research Professional		Innovative Professional Institution Academic Development Achievement Award
Transferred ARC Plasma (TAP) Torch Techniques And Characterization	Dr. Kannan Nithin KV. Associate Professor Head	IEAE student Project Programme - 2018 (SPP)	12/06/2018	Null
Hollow Cathode Plasma (HCP) Torch Techniques and Characterization	Dr. Kannan Nithin KV. Associate Professor Head	IEAE student Project Programme - 2018 (SPP)	02/05/2018	Null
Fabrication and Characterization of Vapour Grown Carbon Fibers (VGCF)	Dr. V.S. Angulakshi, Associate Professor	IEAE student Project Programme - 2018 (SPP)	12/06/2018	Null
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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
No Data Entered/Not Applicable !!!	

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	Mechanical	8	4.69
International	EEE	5	2.87
International	CSE	21	Null
National	Mathematics	4	Null
National	Physics	4	Null
International	ECE	5	1.25

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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
Electrical and Electronics Engineering	4
Mechanical Engineering	4
Computer Science and Engineering	14
Physics	8

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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
Mechanical Behavior of Human Hair and Coir Fiber Reinforced Hybrid Composites	Mr.M. Arunprakash	IJSART	2019	Null	Null	Null
Comparative Wear Studies On Brass Coated Aluminium Composite And Uncoated Aluminium Composite	Mr.M. Arunprakash	IJSART	2018	Null	Null	Null
Mechanical Behavior of Human Hair and Coir Fiber Reinforced Hybrid Composites	Mr.A.Vijayakumar	IJSART	2018	Null	Null	Null
Application of Lean Tools to Improve Productivity in a Garment Ma	Dr. P.Ravi Kumar	IJSRD	2019	Null	Null	Null

nufacturin g Company						
Implemen tation of lean manuf acturing in plastic moulding industry	Dr. P.Ravi Kumar	IJSRD	2018	Nil	Nil	Nil
Investig ations on the effect of impregn ated WS2 on corrosion of low alloy steel (paper need)	Dr. A.R.Suresh	Advanced Science, E ngineering and Medicine of American Scientific Publishers	2019	Nil	Nil	Nil
Investig ations on the effect of deep cryogenic treatment on machina bility of Austempere d Ductile Iron	Dr. A.R.Suresh	Taga Journal of Graphic Technology	2018	Nil	Nil	Nil
Studies on wear and corrosion resistance of A36 steel coated with tungsten carbide and cobalt	Dr. A.R.Suresh	Taga Journal of Graphic Technology	2018	Nil	Nil	Nil
Design And Analysis of Horizontal Open well Submersibl e Pump	Mr.M.Aru npranesh	IJSART	2019	Nil	Nil	Nil
Experime ntal Inves tigation on Bio-Oil	Mr.M.Aru npranesh	Internat ional Journal of Pure and	2019	Nil	Nil	Nil

produced from Rice Husk by Pyrolysis

Applied Mathematics

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
An Optimal Low Power Digital Controller For Portable Solar Applications	N.Vijaya lakshmi	JRSE	2018	1	1	Kathir College of Engineering
Reduced Ripple Buck-Boost Converter Design For Solar Portable Applications	N.Vijaya lakshmi	TAGA JOURNAL	2018	1	Nil	Kathir College of Engineering
Real Time Energy And Power Measurement Using Arduino with TFT Display	N.Vijaya lakshmi Dr.A.Rosi	IJRMMAE	2018	1	Nil	Kathir College of Engineering
Mobile healthcare using Internet of Things	Vani N Indumathis	IJSRED	2019	Nil	Nil	Kathir College of Engineering
Vehicle Monitoring System with TFT Display	Dr.V.R Rajeshkumar B.Gowridevi	IJRMMAE	2018	Nil	Nil	Kathir College of Engineering
A hybrid dynamic load Balancing for Energy efficient	Mr.T.K.P .Rajagopal	TAGA JOURNAL	2018	Nil	Nil	Kathir College of Engineering

Of multi access in Heterogeneous wireless Networks					
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	23	24	13
Presented papers	10	6	12	5
Resource persons	Nil	1	1	9
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tamil Mandram Celebration	Kathir College of Engineering	5	500
Science Day Celebration	Kathir College of Engineering	2	110
First Aid Program	Indian Red Cross Society	7	55
Kathir's Sports Day	Kathir College of Engineering	1	750
Kathir's Diploma fest 2019	Kathir College of Engineering	2	250
Kathir's Technical Symposium - Dhrona 2019	Kathir College of Engineering	5	400
Kathir NSS Camp in Vellanaipatti	NSS Unit of KCE along with KGM Hospital	2	55
Pongal Celebration	Kathir College of Engineering	5	500
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
International Convention on	Global Excellent Administrative	Innovative scientific research	40

Innovative Scientific Research Strategies	Leadership Achievement Dedicated Innovative Academician Award	professional, Malaysia	
Skill Development	Best Leader for Skill Development Trainers	Society of Scientific Research in Association with Alumni Association of Indian Engineers	40
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
General Issue	Tamilnadu Police Department	Helmet awareness rally	2	80
Swachh Bharat	GOVERNMENT OF INDIA	Swachhta Pakhwada- Cleaning of public park	2	28
General Issue	NSS, Youth Red Cross	Promotion of health and life	1	21
Bhetti Bhachao, Bhatti Padao	Coimbatore Medical College Hospital	Emphasising the importance of the girl child	1	26
General Issue	KCE NSS, Rathinam Tech zone	Awareness of donating organs	2	50
General Issue	KCE NSS, Airport authority of india	Cleanliness Drive-Swachhta Hi Sewa 2018 (SHS)	2	54
General Issue	KCE NSS, Life for all	Moral awareness program to protect the value of the human life from conception to natural death	2	50
General Issue	KCE NSS, Datri Foundation	An Awareness program in blood stem cell donation	2	50
General Issue	KCE NSS, Anna University	Healthy youth for healthy India	2	50

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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
Consultancy Project-High speed heating system based on Quartz heaters	Dr.P.Ravikumar Mr.A.Ashothaman	Orbit Controls and Services	365
Sponsored Project-Computerized Engine Analysis	Dr.A.R.Suresh	COSMOGEMS	1095
View File			

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	Idle Vehicle Detection and Traffic Symbol Analysis using Artificial Intelligence and IOT	Tekzie, Coimbatore	04/03/2019	31/03/2019	4
Internship	Payment Tracking System	Proplus Groups, Coimbatore	04/12/2018	31/12/2018	4
Internship	Implementing Traffic Accident Evaluation System using Matlab	AJ Tech Research Labs, Coimbatore	11/03/2019	22/03/2019	3
Internship	Automated Self Navigated Dustbin Dispensary System	AJ Tech Research Labs, Coimbatore	11/03/2019	22/03/2019	3
Internship	Online Job and Candidate Recommendation using Data	Tekzie, Coimbatore	04/03/2019	31/03/2019	3

	Mining				
Internship	Land Registry using Blockchain	Pantech ProEd Pvt. Ltd, Coimbatore	04/02/2019	18/02/2019	4
Internship	Detaching and Reproducing of Data in a Cloud for Excellent Performance and Security	Ascentz Technologies, Coimbatore	11/02/2019	25/02/2019	3
Internship	Basics of AutoCAD and QGIS	JS Geospatial Pvt. Limited, Coimbatore	10/12/2018	24/12/2018	10
Internship	Building drawings with AutoCAD Skill Development Program	Subramanian Associates, Coimbatore	12/12/2018	26/12/2018	10
On the Job Training	Skill Development Program	Gishnu Gears Coimbatore	03/12/2018	31/12/2018	10
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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
JS Geospatial Pvt. Limited, Coimbatore	21/11/2018	Placement activities	24
Gishnu Gears Coimbatore.	03/12/2018	On the Job Training	34
NSV Engineering works, Bharathipuram, Coimbatore.	28/05/2019	On the Job Training	24
Golden Engineering works Muthalipalayam, Coimbatore.	03/12/2018	On the Job Training	28
Mech Tech Engineering centre, Coimbatore.	20/08/2018	On the Job Training	32
nsun Energy Systems Pvt Ltd, Erode	20/06/2018	To develop the skills of the students	52

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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

No Data Entered/Not Applicable !!!

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	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 partially)	Version	Year of automation
OPAC	Fully	Null	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Journals	Null	11500	Null	Null	Null	11500
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	9885	3598140	140	56921	10025	3655061
e-Books	139	337641	Null	Null	139	337641
Journals	209	667213	Null	Null	209	667213

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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
No Data Entered/Not Applicable !!!			
View File			

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	20	0
Added	0	0	0	0	0	0	0	0	0
Total	652	450	0	150	0	22	30	20	0

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

20 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
115	110	35	29

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)

Institute makes budgetary arrangement under various heads for keeping up and using the campus infrastructure facilities. Institute improvement board of trustees referred sufficient funds for maintenance and repairing. The scheduled funds are used under the perception of different observing councils, for example, Purchase advisory group, Repair and maintenance board, Sports Committee, Library panel, Lab Maintenance Committee, Students Feedback council etc. of the college. To keep up and upkeep the infrastructure Institute facilities and equipments, following exercises are attempted by the college:-

- There is Stock Maintenance Committee in each department, who keeps up the stock register by genuinely confirming the things round the year.
- Department wise yearly stock confirmation is completed by concerned Head of the Department.
- Regular maintenance of Computer Laboratory equipments are completed by Laboratory Assistant along with Laboratory attendant and they are controlled by Lab Maintenance Committee Convenor.
- Overall development of campus is finished by Campus Discipline and Cleanliness Committee of the college.
- Regular cleaning of water tanks, appropriate waste disposal, pest control, finishing

and maintenance of lawns is finished by Institute Fourth Class Employees • College campus maintenance is monitored through regular inspection. • Upkeep all facilities and neatness of environment in men's and women's hostel is kept up through Hostel monitoring committee • Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. Updating of softwares is done by lab assistants. • Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing. • Regular maintenance of the water cooler and water purifier is done by outsourcing agent. • The maintenance of the reading room and stock verification of library books is done regularly by library staff. • Outsourcing is accomplished for maintenance and repairing of IT infrastructure like PCs, internet facilities including Wi-Fi and broadband. Updating of softwares is finished by lab collaborator • The maintenance of the reading room and stock verification of library books is done consistently by library staff

<http://kathir.ac.in/uploads/NAAC/5.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	Management Scholarship	6	600000
Financial Support from Other Sources			
a) National	Tamilnadu Government Scholarship	550	3300510
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
Remedial Coaching class	22/08/2018	24	KCE Mech Faculty
Remedial Coaching for slow learners	01/08/2018	37	KCE ECE Faculty
Yoga	20/08/2018	40	Mr. Anjesh
Group discussion, Personality Improvement and Resume Writing Tips	06/05/2019	95	Kathir College of Engineering Placement Cell
Personal Counseling	23/04/2019	110	Respective Department Faculty of Kathir College of Engineering
Remedial Coaching	19/03/2019	44	KCE Civil Faculty
Remedial Coaching	22/10/2018	40	KCE Civil Faculty

Remedial Coaching	17/07/2018	40	KCE CSE Faculty
Remedial Coaching	29/01/2019	38	KCE CSE Faculty
Student Mentoring	02/07/2018	305	KCE Faculty
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the 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
2018	Career Guidance Program	10	20	Nil	18
2019	Competitive Exam Coaching Classes	20	20	Nil	Nil
2019	How to Get Ready For TNPSC Exams	46	20	Nil	2
2018	Gate Coaching	70	Nil	Nil	24
2019	Career Guidance for Government exams	50	50	50	18
2019	Indian Army Short Service Commission - Guidance	Nil	100	Nil	Nil
2018	Career and Counselling	23	23	Nil	Nil
2019	TNPSC EXAM	18	18	Nil	Nil
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations	Number of students	Number of students placed	Name of organizations	Number of students	Number of students placed

visited	participated		visited	participated	
Proplus Logics, C Cube, Info Test Lab, Singapore India Tecnologies, Vega Intellisoft, Aqua Plus, Balaji Enterprises, Pebbles, Go Speedy Go, Agiit, Smart Dv, Ss Techn ovation, Sri Krishna Automation, Aqua Pure plus	422	69	OASYS, TCS, WIPRO, I EXPLORE CORP, KLR TECHNOLOGIES	79	8

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	MBA	MBA	Dr NGP College of Arts Science, Coimbatore	M.Phil (PT)

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	1

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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
Yoga	State	10
Boxing	State	10
Volley Ball	State	40
Kabadi	State	60
Sports	Intra College Level	60
Cultural Events	Intra College Level	40
Kabadi	Zonal	40

Volley ball	Zonal	20
Cricket	Zonal	40
Athletics	Zonal	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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	I Prize	National	Nil	1	Nil	N.Aathersh
2018	Gold	National	1	Nil	Nil	S Manikandan
2018	Gold	National	1	Nil	Nil	V. Aswin
2018	I Prize	National	1	Nil	Nil	P. Jeeva nantham
2019	III Prize	National	1	Nil	Nil	V. Aswin
2019	II Prize	National	1	Nil	Nil	P. Jeeva nantham
2019	III Prize	National	1	Nil	Nil	Team
2019	III Prize	National	1	Nil	Nil	Team
View File						

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

College creates a platform for the active participation of the students in the various academic, non academic administrative bodies including other activities. This empowers the students in gaining leadership qualities. They gain knowledge about rules and regulations. The students fine tune their execution skills. They become aware of the social responsibilities and emotionally balanced in taking decisions. Youth Parliament and Department Association are the two major student councils functioning in the campus in addition to professional body chapters. The department association constitution: HOD as mentor, one faculty advisor who guides in organizing all the events. It also has one Faculty Advisor who guides in managing the funds. The student's role in the association ranges from Secretary, Joint Secretary, Treasurer and Executive Members. The major activities of the association are arranging guest lectures, Workshops, Symposiums and Conferences. The students are involved in inviting participants from regional, state and Nationwide Colleges. The students through this association render voluntary services during the various college level competition and activities. They are also involved in maintaining the serenity and discipline in all these events. The students are involved in governing Hostel and mess also. They are involved as members of following academic and administrative bodies. 1. Class committee 2. IQAC 3. Department Association 4. Hostel and Mess Committee 5. Anti-Ragging Committee 6. Entrepreneurship Development cell 7. Training and placement cell 8. ISTE,IEEE,SAE IE(I) Students Chapters 9. Club Activities 10. Grievance

Redressal cell 11. Library advisory committee The students are encouraged to represent their points and these points are considered before taking any decision. Each department has Class Committee council which includes student members. These students represent all the students of each class and all their views and suggestions. They share their opinions about Faculty, subjects, Syllabus and other academic related activity. Each class has a representative chosen by the majority of the students in each section from first year to the final year of each department. The student council helps students share ideas, interests, concerns and grievances with mentors, HOD and Principal. The funding for all the activities of the students association is provided by the college management.

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:

305

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

No Data Entered/Not Applicable !!!

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet was organised on 13.10.2018

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 college provides the opportunity for all to participate in the decision-making process, the college administrative and academic structure is in a

manner to make the decision by participative arrangement. Principal is the administrative and academic Head the heads of the department are the key to the administrative and academic tasks of the same. The faculty meetings of the department are held periodically and the minutes are sent to the principal. The principal in consultation with all the heads of the department takes the final decision. The administrative and accounts related tasks are carried out by the Principal with the support of the office superintendent and the ministerial staff in the office. The college follows all such norms laid down by the Government of Tamilnadu and UGC in Academic and administrative aspects. The case study related to such Participative management is stated as follows: • The college prepares financial budget at the beginning of the year. This is prepared by the office administrative head and in consultation with all the heads of the departmental. Accordingly, it is verified by the college principal and is sent for sanction to the chairman. After approval necessary action is carried out. • The examinations are carried out periodically throughout the year for which there is separate examination cell. The professor level faculty member is in charge of examination cell, supported by clerical staff. The management authorities regularly undertake the review of functioning of the college in its Executive council meeting and working committee meeting. The Necessary guidance and directives are issued through these meetings. The budget is prepared prior to the commencement of the academic year and is approved by the management. So, there is a good support from the management relating to the implementation of the objectives specially designed to attain quality teaching and learning aspects of the college. The concentration is given on the regular lectures conducted by the staff, timely completion of the syllabus, guidance for better performance in the examination and providing best possible teaching learning environment. This is attained by regular meetings of department, of the staff member conducted by the principal from time to time. The staff receives motivation and support for all the activities from the management. The participation of students in Sports, NSS, NCC, extracurricular activities is encouraged in order to attain overall development of students. Thus, the college works with aim of attaining the academic excellence through quality education and inculcating all possible soft skills in the personality of the students. The college plans for all such implementations through all its academic calendars and the regular feedback from the students and the staff members also.

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
Admission of Students	The admissions of the students are strictly followed as per rules and regulation based on the Government of Tamil Nadu and AICTE norms. • Admissions are done through regular counselling and management quota. • For management quota students an online entrance test will be conducted ensuring quality students joining the institution • 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>Industry Interaction / Collaboration</p>	<p>One of the strengths of the college is the range of tie-ups and linkages/networking with other organizations in order to effectively operationalise the curriculum. 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>
<p>Human Resource Management</p>	<p>Extensive use of participatory management/decentralized governance for capacity development and leadership among staff. Multiple opportunities for leadership for various assignments/tasks/responsibilities made available to staff and students. Top Management policy to have and sponsor Faculty development sessions in the college likewise, to arrange and sponsor staff development sessions for non-teaching staff, and those for support staff Faculty members are encouraged to attend seminars/conferences, present papers, avail of refresher courses so as to keep abreast of changing times/advancements in knowledge. Policy of drawing up plans for the year for each specialization and each committee so as to ensure the scheduling and conduction of co-curricular and extra-curricular activities and events in the college that facilitate faculty and student development.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>All classrooms have ceiling mounted LCD projectors connected to computers, sound system, and pull-down screens. Laptops and projectors are also available on demand. Infrastructural facilities include use of microphone for large classes, LCD projectors in all classrooms, OHP on demand, Epidiascope, slides and slide projector, movie screening facilities, and up-to-date computer facilities that includes access to the Internet. Students and teachers use class mailing lists and class e-groups. Internet is free for staff and offered at concessional rates for the students. Staffrooms, cybercafé, library, and the conference room all have Internet</p>

access. All our teachers have undergone training in the basics of computer usage. Lecture-rooms and laboratories are equipped to facilitate the use of modern gadgets and instruments. Due to the ease of access to the facilities, staff and students make optimal use of the resources, thereby augmenting the teaching-learning process. We have a well-stocked library which is one of the main sources of knowledge for faculty and students of all the specialisations. The library replenishes its stock periodically and adds the latest books recommended by the faculty. The library also subscribes to relevant journals (both print and electronic) that enhance student access to relevant and current information. The faculty keeps copies of handouts for their respective subjects and other resource material in the library. Question papers of the past years are bound and can be used by students as a form of practice.

Research and Development

Top Management policy to have a Research Centre in the college with a specially appointed Research Director with outstanding qualifications. Engagement in research projects for the industry/government/international bodies/agencies. Publication of a national, peer-reviewed, ISSN-registered, research journal in Computer Science. Excellence standards for research in the master's and PhD programs. Strong encouragement to faculty to complete their PhDs. Strong encouragement for faculty to engage in minor or major research projects and obtain grants from the university or the UGC. Encouragement to faculty to participate in conferences and present their research work.

Examination and Evaluation

The evaluation is done by the specialization/designated committee and discussed with the principal and in the teachers' meeting. Importantly, an ongoing method of evaluation of all decisions, policies, activities, events, examinations provides the necessary feedback to the staff to effectively bring about positive changes in the functioning of the college.

Teaching and Learning

Work plans for each subject - the Teacher Diary as a monitoring mechanism

plans for the year/term of each specialization and each committee, which are carefully executed, monitored, and evaluated. Feedback mechanisms such as oral and written feedback obtained from students periodically for each subject and overall, in order to ascertain the quality of curriculum delivery and incorporate workable suggestions of students. Mentoring system with a mentor assigned to each group of students. Conduction of faculty development sessions related to teaching-learning.

Curriculum Development

The curriculum delivery covers regular teaching-learning transactions in scheduled classes for theory and practicum subjects special learning opportunities through study tours, visits, sessions by resource persons, workshops/seminars/conferences organized by the college, student participation in other workshops/seminars/conferences/competitions, international exchange programs, internships holistic learning through arranging for picnics, personality development camps, extra-curricular activities, sports activities service and extension-related learning through rural/tribal camps, and organizing events for underprivileged children and street hawkers etc.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The college endeavours to ensure that students who would benefit from need-based scholarships are given maximum support to complete their course. In addition, we also award merit-based scholarships to deserving students, so that the development of their potential is further encouraged. The college recognizes the need for training and development of entrepreneurship skills in the students. Personality development programmes and camps are organised for graduating classes. These programme focus on promoting deeper awareness of self, personal values and leadership skills.</p>
<p>Administration</p>	<p>The college has established a good network, and the college administration and faculty continue to remain in touch with the alumnae. Alumnae placed in</p>

	positions of authority, recommend the college to potential employers and also support campus interviews. The dates of application and examination are posted on the University website and applicants can also inquire in the college administrative office.
Finance and Accounts	The project coordinators are duly instructed by the college accounts staff regarding the systematic maintenance of project accounts and audit procedures. This has facilitated timely audit and submission of the utilization certificate. Staff at the university has also been very supportive.
Student Admission and Support	It is the policy of the institution that the information in the handbook and prospectus is adhered to strictly to ensure that a number of systems are in place and are working smoothly. The college calendar is additionally provided based on the plans of the academic year. The calendar is formulated in detail by the HODs and the committee conveners. This serves as a source of information for students in terms of various programmes held and the examination schedule. All efforts are made to adhere to the dates indicated in the calendar
Examination	The Examination Committee draws up a plan for the semester in compliance with university regulations and dates, and after obtaining consensus from the Principal, the HOSSs, and the Academic Coordinators, posts the details of the plan on the teacher noticeboards and sends periodic reminders with regard to important deadlines. Performance of students on unit tests, assignments, projects, and the final examinations also provides valuable data to teachers on quality of student learning.

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. P.Ravi Kumar	ISCO 2019(10.01.2019)	Karpagam College of Engineering	1000

[View File](#)

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Nil	Workshop on MS Word	11/06/2019	11/06/2019	Nil	6
2018	Nil	FDP on Mat lab and its Applications	25/06/2019	29/06/2019	Nil	29

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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(Problem Based Learning)	3	11/12/2019	15/12/2019	5
Effective Teaching Learning	23	29/06/2018	01/07/2018	3
Certified Cyber Security Professional	2	23/06/2018	24/06/2018	02
FDP(Problem Solving Python Programming)	2	01/06/2018	07/06/2018	6
Faculty Development Program on Research - Dept. of Commerce, Sri Saraswathi Thygaraja College	2	15/04/2019	16/04/2019	2
FDP(Electrical Machines-II)	2	11/12/2018	15/12/2018	5
Faculty Development Program-Strength of materials	4	03/12/2018	12/12/2018	9

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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	23	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 Co-Curricular 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 institution has established a system to audit all the financial transactions by both internal auditors and auditors of external agency. The books of accounts and the supporting evidences are subjected to both internal and external audit. The internal audit practices to monitor financial management of the institution ensure sound financial health of the institution. The internal audit is carried out to take care of the requirements specified once in three months. External audit carried out ensures total compliance with statutory requirements and obligations. The external audit is done once in a year.

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

Orbit Controls and Services	650000	High Speed Heating System Based on Quartz Heaters
View File		

6.4.3 – Total corpus fund generated

2451260

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)

<p>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.</p>

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

<p>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</p>
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

<p>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 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</p>
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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
2018	Orientation Program for CBCS	05/06/2018	05/06/2018	05/06/2018	30
2018	IQAC Meeting 1	14/09/2018	14/09/2018	14/09/2018	10
2019	IQAC Meeting 2	20/02/2019	20/02/2019	20/02/2019	11
2019	Accreditation Awareness Program	08/03/2019	08/03/2019	08/03/2019	70
2019	Discussion on the new format of NAAC	14/03/2019	14/03/2019	14/03/2019	35
2019	Internal Audit	02/05/2019	02/05/2019	02/05/2019	35
2019	Accreditation Awareness Program	09/05/2019	09/05/2019	09/05/2019	30

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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	08/03/2019	08/03/2019	307	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 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
2018	1	1	29/08/2018	1	Blood donation camp	Donated to a nearby hospital	20
2019	1	1	19/03/2019	1	Eye Camp	Eye check up for Senior citizens	25
2019	1	1	26/04/2019	1	Tree Plantation	Provided green cover	25

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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	22/05/2018	Separate code of conduct hand book is available for the students
Faculty Service Rules	05/06/2018	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	15/08/2018	15/08/2018	30
Pongal celebration	13/01/2019	13/01/2019	100
Republic day	26/01/2019	26/01/2019	40

Teachers day	05/09/2019	05/09/2019	95
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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-I 1. Title of the practice: Enhancing the Employability Skills, Entrepreneurial skills of the students to get better placement opportunities.

2. Objectives of the Practice: To develop students in recruitment process tests through pre placement training on aptitude, verbal and reasoning etc. To provide career counselling and guidance to the students. To upskill students to accomplish their goals to pursue post-graduation or to become an entrepreneur. To give training to students by Entrepreneurship Development Cell of the College so as to create young entrepreneurs from the existing batch. To shape the students to leave a punch in the society in a well established way. To develop interpersonal skills, soft skills and technical skills of the students to face interviews and secure placements. To create awareness on latent technologies and latest technologies among students in order to make them industry-ready. To conduct workshops once in a trimester 'On emerging areas of Engineering' in order to expose the latest advancements in the field of Engineering and Technology.

3. The Context Ever changing technological advancements in engineering and technology necessitate students to expose them to latest software tools and gain knowledge on latest developments in the subject areas. Further exposure through short term 'internship' in core industries during their study strengthen the students to gain knowledge on industrial requirements and practices.

4. Practice College gives prerogative to enrich communication skills of students. Many 'personality development training programs' are conducted in the college by renowned trainers from in and around Coimbatore. The program includes 'Soft skills Enhancement' 'Life Skills Enhancement', 'Motivational Lectures by Leading Entrepreneurs', etc. Special session for Aptitude Skills and Verbal Reasoning are also held at frequent intervals. These placement enhancement precursors help the students to secure placement in reputed organizations in India as well as in Abroad. Trainings like this help the students not only to crack Competitive exams of TNPSC, Group I, Group II and UPSC but also to crack the Entrance exams like CAT, GRE, GMAT, TOEFL etc. Mock interview sessions by industrial experts are conducted to instill confidence among the students by providing necessary inputs to face the interviews. College upskill the students in computer 'programming' by inviting specialists from software Industries to conduct workshops in order to elevate the understanding level of students in computer 'programming'. Hands-on training on latest software tools such as MATLAB, PHYTHON, etc., has also been arranged for pre final and final years in the campus itself. Workshops by Eminent Academicians and Industry Experts on 'Cloud Computing, Robotics, PCB layout Designing, Solar Power Energy etc., have also been conducted from second year with the aim of placing the students Multi National Companies.

5. Evidence of success: By giving these development programs for the students, Aptitude, Attitude and Communication skills are gradually developed and this is the foremost evident of success. These 'Life Skills' programs help the students to identify their in-born skills like 'Critical Thinking and 'Decision Making, etc. Learning these skills carve a niche in the life of the students to perform judiciously when they are placed in an organization. Providing hands-on

experience in the college on latest software tools also eases their anxiety to work anywhere in any of the industry all over the world. 6. Problems Encountered and Resources Required: While conducting various training programs, personality development programs and workshops on emerging technologies, financial assistance is required. Arranging internships in industries to all students is a tough task to the administration. There is need to recruit more number of faculties and professional trainers to conduct these kind programs. Best Practice-II 1. Title of the Practice: Industry involvement in Teaching Learning Process Assessments. 2. Objectives of the Practice: • To make the students industry ready • To enhance the skills of students to solve real time industrial problems and involve in consultancy works 3. The Context: Industry experts have to be involved in designing the curriculum and syllabus for the students by incorporating latest industrial expectations. In addition, the curriculum and syllabus of the University has to bridge the gap between Institute and Industry. Industry Experts are evaluating the student projects and Industry trainings. 4. The Practice: All students are encouraged to attend inplant training, internship, industrial visit etc., so as to get exposure into real time setups of various industries. Assessment of students' performance (awarding marks) must be done either by internal faculty or industry experts. Institute - Industry collaborative programmes such as workshop, guest lecturers etc., are conducted in every department to uplift industrial knowledge among students. Doing academic projects in pre-final or final years in industries give a wider perspective about the Industries and placing himself or herself is not going to be a tough task for the student as well as for the College once they complete their studies. 5. Evidence of Success: Students are monitored and assessed by faculty. Paid Internships are arranged and Non-paid Internships are converted into full time placement offer for students. 6. Problems Encountered and Resources Required: Eminent persons do not find time to interact frequently with students on regular basis. In order to overcome this issue, Web conference and skype calls are arranged for better interaction with students.

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/NAAC_doc/Best%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 is 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. 5. KCE - ICICI - Industry Academia Interaction Centre (MBA): An exclusive centre has been established in collaboration with ICICI bank to fulfil the requirements of Master of Business Administration students. The expertise available with ICICI Bank is used to teach the applications of ICICI Industrial software to the students of MBA programme at trimesters. 6. Nicolaus Research Centre for Internal Combustion Engine Test Rig 7. Kalam Interdepartmental Innovation Centre - A unique initiative to promote students from various departments to interact and innovate a complete product. All the events are conducted by Centre of Excellence and all these programmes are well received by Faculty members and Students. In addition, Centre of Excellence has been conducting 'Faculty Development Programs' to update and upgrade the faculty members on the latest trends and advancements in Engineering field.

Provide the weblink of the institution

<http://kathir.ac.in/uploads/NAAC/6.pdf>

8.Future Plans of Actions for Next Academic Year

1.Core Placement: Each Department's Training and Placement division will get connected to core companies so as to place their respective department students in Core Engineering fields. 2. Planned to give intensive training on 'Competitive Examinations' such as GATE, GMAT, GRE, UPSC, etc. for the pre-final and final year students. 3. To promote entrepreneurship among students, a series of activities such as 'Seminars, Guest Lectures will be conducted by "Entrepreneurship Development Cell" of the College. 4. Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC for the academic year 2019- 2020. 5. Organizing International Conferences on 'Emerging Trends' in Engineering. 6. Encourage faculty members to submit 'Research Proposals' to the various funding agencies like DST, AICTE, UGC, DRDO, and ISRO etc. 7. Increasing the number of faculty members with Ph. D as well as encourage the existing faculty members to do Ph.D. 8. Strengthening of networking and computing facilities 9. B.E Mechanical Engineering, B.E Computer Science and B.E Electronics and Communication Engineering Programmes will be submitting their Self-Assessment Report (SAR) to get NBA Accreditation for the above said programmes.