



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	K.L.N.COLLEGE OF ENGINEERING
Name of the head of the Institution	RAM PRASAD.A.V.
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0452-2090971
Mobile no.	9940125238
Registered Email	infoklnce@gmail.com
Alternate Email	avramprasad2002@gmail.com
Address	Madurai-Nedunkulam Road , Pottapalayam-630612 . Sivagangai District, Tamilnadu
City/Town	POTTAPALAYAM
State/UT	Tamil Nadu
Pincode	630612

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	DR. R. ALAGESWARAN
Phone no/Alternate Phone no.	+914522090972
Mobile no.	9787715335
Registered Email	infoklnce@gmail.com
Alternate Email	alageswaranramaiah@outlook.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://www.klnce.edu/General/IOAC.aspx
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.klnce.edu/download/2019%20-%202020/AcademicCalendar_ODD.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.8	2018	30-Nov-2018	29-Nov-2023

6. Date of Establishment of IQAC	15-Feb-2017
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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
Faculty Feedback Review	04-Jul-2019	2201

	3	
UGC Autonomous committee visit	10-Sep-2019 2	2201
Academic audit : Teaching performance evaluation	25-Sep-2019 3	2201
Quality Circle Advanced Research and Development Internal funding for the faculty research project scrutiny meeting	11-Nov-2019 1	5
Quality circle Quality Education NPTEL Appreciation	11-Jan-2020 1	28
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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
Dr.S.M.Kannan.Prof &Head/EEE	MODROB	AICTE	2019 730	800000
Dr.P.Udhayakumar, Prof/Mech	Conference	AICTE	2020 2	166000
Dr. S. Suresh Raja and Dr. V. Akilandeswari	Research Project	Unnat Bharat Abhiyan	2019 365	90000
Dr.S.Parthasarathy, Prof/EEE Dr.D.Pradeep Kannan, Prof/EIE Dr. M. Raghini, Prof/CSE Dr.A. V.RamPrasad, Principal & Prof/ECE	Research Project Scheme	DST	2019 730	8535000
Dr.K.Gnanambal, Prof/EEE	Research Project Scheme	AICTE	2019 1095	591000
Dr. S. Suresh Raja and S. S. Sarmila	Research Project	Unnat Bharat Abhiyan	2019 365	100000
Dr.A.Uma Rani, Prof/EIE	MODROB	AICTE	2019 730	600000
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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 :	12
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)
<ul style="list-style-type: none"> • UGC Autonomous Visit and got Autonomous status from the AY 2020 • Research centre recognition by the department of Information Technology • Encouraged the faculty members to apply research proposals for funding from external Funding agencies and encouraged to write NPTEL exam organized by SWAYAM, New Delhi • Signed MoU with Info Top, China for International Internship for the benefit of students • Got selected in the ARIIA ranking between 26th and 50th position Band B category

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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
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Plan of Action	Achievements/Outcomes
New best practice needs to be identified	Collaboration with Industry Laboratories was identified as best practice
Members of POSH & WEC have to organise the events at regular interval	Events like Women's Economic Empowerment on Enhancing Participation of Women in Economic Development for Achieving Gender Equality and the Advancement of Women, Awareness program about legal rights of women. Awareness program on General Health Care and events like Nationwide competition to create awareness about legal rights of women were organized by POSH cell. Event like Women's Day Celebration. Entrepreneurship Awareness Program For Women were organized by WEC
The registration amount need to be refunded to the students and staff	During NPTEL appreciation function, registration amount was refunded to those students and staff successfully

	completed the NPTEL course.
International Certifications can be organized for the students	International Certifications like Sales force was organised by CSE department
Bridge course should be organized	Bridge course was organized for First Year and Second year students
QCQE to ensure the use of ICT tools effectively, Academic Audit Committee(AAC) to ensure during class sitting exercise, use of Moodle Server Google forms/IT Exam spot and other online tools.	AAC conducted Class sitting and ensured the use of ICT by Faculty members. Also faculty members use moodle or Google forms for their courses
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Council	28-Nov-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	10-Sep-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	19-Feb-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Management Information Systems is operative in the college named as Information System Support Group (ISSG). The MIS pervades the following areas of institutional activities: Office Automation, Web Services, SMS Services, WiFi Service, and Hardware Networking Services, 1. SMS gateway to send important notifications to student and parents and stake holders of the college 2. Communication of important information to general public through website and Conventional notices 3. Installation of RFID system in college library for better management. 4. Regular Up gradation of the college
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website 5. To procure computer systems and servicing and testing hardware services 6. Maintaining and upgrading the Firmware of network components, 7. Monitoring and upgrading the computer networks and systems and to provide network administration and support including WiFi devices. 8. Procure and developing software for the college administration, 9. implement and Maintain Wireless Campus (WiFi) development, 10. Monitoring and Maintaining the UPS, CCTV Cameras to Whole campus, Staff Biometric Attendance. 11. Internet Connectivity (187Mbps) and Develop the web applications. Enhancing the Students and Parents to view the Marks, Attendance, Question Bank, etc

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 K.L.N. College of Engineering is the first self-financing Co-educational Engineering College in Madurai established in the year 1994 and the college is affiliated to Anna University. Curriculum Planning At the beginning of each academic year the affiliating University provides academic schedule and guidelines. University prescribes the syllabus which specifies the number of lectures, list of recommended books and assessment scheme of internal and external marks. Every semester the Academic calendar is prepared in line with academic schedule of University which includes centralized internal Assessment test schedule, Class test schedule, university examination schedule, department and Institution level co-curricular and extra-curricular activities. These are documented and then distributed to all the departments. In each semester the course allotment is done by HOD on the basis of faculty member's area of specialization, technical skill, competency level, experience, students feedback and academic performance. Time table for the entire semester is prepared to indicate specific theory and laboratory hours. Lecture schedule for every subject is prepared by the respective course handling faculty in line with the university syllabus. CO-PO mapping is formulated for each subject based on the objective of syllabus. Course committee meeting is conducted for common courses to frame the course outcomes, assignments, case studies and self-study topics. Based on the expected course outcomes, content beyond syllabus are identified and delivery plan are formulated accordingly. Curriculum Delivery The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, presentations/seminars, mini projects, in-house and industry supported projects, tutorials, group assignments, case studies, industry visits, industrial training, internships, hands-in-sessions, e-learning, NPTEL lectures, MOODLE, technical quiz, assignments, internal-tests etc. The course in-charge disseminates the course objectives and expected outcomes to the students at the start of the course. Course delivery is carried out as per the planning mentioned in the lecture schedule and it is recorded correspondingly in the Assessment Record. The Academic performance of the

students are measured and monitored through Internal Tests. Curriculum gap is identified and filled through industrial visit, expert lectures, seminars, workshops and innovative teaching methodologies. Training needs of faculty are identified by the head of the department. Faculty is encouraged to attend NPTEL courses, short term training programs (STTPs), Faculty development programs (FDPs), Seminars, Workshops, Industry Training etc. to bridge the need. Class Committee Meetings are scheduled three times in a semester and conducted effectively by each department to encourage the students to improve their academic performance and other skills. The reports of the class committee meetings are reviewed by the Head of the Department and suggestions are given to the course in-charge for improvement. Course Outcome survey is obtained from the students for all the courses at the end of the semester to analyze the course outcomes and Program outcomes attainment. Students feedback about teaching a course is obtained at the end of the semester and faculty members are motivated to improve the course delivery method in the subsequent semester.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
NPTEL -Manufacturing Automation	NIL	29/07/2019	28	Employability	Skill Development (Automation)
NPTEL-Fundamentals of Manufacturing processes	NIL	05/08/2019	84	Employability	Skill Development (Manufacturing)
NPTEL-Laws of Thermodynamics	NIL	27/01/2020	28	Employability	Skill Development (Thermal)
NPTEL -Human Behaviour	NIL	27/01/2020	56	Employability	Skill Development (psychology)
IIT Spoken Tutorial - Inkscape	NIL	11/07/2019	60	Employability	Skill Development (Analysis)
IIT Spoken Tutorial - Python 3.4.3	NIL	16/03/2020	60	Employability	Skill Development (Programming)
IIT Spoken Tutorial - Inkscape	NIL	18/10/2019	60	Employability	Skill Development (Analysis)
Abstract for Industrial Internet of Things with Real Time Data logging	NIL	09/12/2019	5	Employability	Skill Development (Programming)
C, CPP	NIL	09/12/2019	5	Employability	Skill Development (Programming)

Two days Value Added Course on Core JAVA	NIL	26/07/2019	2	Employability	Skill Development (Programming)
NPTEL - Programing in JAVA	NIL	30/07/2019	84	Employability	Skill Development (Programming)
NPTEL -The joy of computing using python	NIL	30/07/2019	84	Employability	Skill Development (Programming Skill)
NPTEL - Power system analysis	NIL	30/07/2019	84	Employability	Skill Development (Electrical-core)
NPTEL - Introduction to Smart Grid	NIL	30/07/2019	84	Employability	Skill Development (Electrical-core)
Spoken Tutorial - Python	NIL	28/08/2019	90	Employability	Skill Development (Programming)
Spoken Tutorial -C	NIL	28/08/2019	90	Employability	Skill Development (Programming)
Spoken Tutorial - CPP	NIL	28/08/2019	90	Employability	Skill Development (Programming)
Spoken Tutorial -JAVA program	NIL	28/08/2019	90	Employability	Skill Development (Programming)
Spoken Tutorial -Python	NIL	28/08/2019	90	Employability	Skill Development (Programming)
ICTACT skill tester Introduction to Quantitative aptitude	NIL	27/03/2019	30	Employability	Problem solving
ICTACT skill tester AWS Cloud practitioner	NIL	27/03/2019	30	Employability	Accessing Cloud
ICTACT	NIL	27/03/2019	30	Employability	Communicat

Step Plus Co mmunication Skills					ity	ion Skills
NPTEL (Internet of Things)	NIL	01/07/2019	120	Employabil ity	Multi-disc iplinary Skill	
ICTACT Step Plus Co mmunication Skills	NIL	27/03/2019	30	Employabil ity	Communicat ion Skills	
NPTEL (Internet of Things)	NIL	01/07/2019	120	Employabil ity	Multi-disc iplinary Skill	
IIT Spoken Tutorial- Python 3.4.3	NIL	03/09/2019	60	Employabil ity	Skill deve lopment(Basi c computer software)	
IIT Spoken Tutorial- Introduction to computers	NIL	20/01/2020	90	Employabil ity	Skill deve lopment(Basi c computer knowledge)	
IIT Spoken Tutorial- Python 3.4.3	NIL	05/09/2019	30	Employabil ity	Skill deve lopment(Basi c computer software)	
IIT Spoken Tutorial- JAVA	NIL	05/09/2019	30	Employabil ity	Skill development (Development of programming knowledge)	
IIT Spoken Tutorial- Java Business Application	NIL	05/09/2019	30	Employabil ity	Skill development (Application oriented)	
IIT Spoken Tutorial- Python 3.4.3	NIL	05/09/2019	30	Employabil ity	Skill deve lopment(Basi c computer software)	
IIT Spoken Tutorial - Arduino	NIL	04/09/2019	60	Employabil ity	Skill deve lopment(Core knowledge)	
NPTEL- Computer Fundamentals	NIL	29/07/2019	84	Employabil ity	Skill deve lopment(Basi c knowledge)	
NPTEL -Python for Data Science	NIL	27/01/2020	28	Employabil ity	Skill development (Application oriented)	
NPTEL -Mic	NIL	27/01/2020	84	Employabil	Skill	

processors and Microcontrollers					ity	development (Technical core subject knowledge)
NPTEL -Discrete Time Signal Processing	NIL	27/01/2020	56		Employability	Skill development (Technical core subject knowledge)
NPTEL - Microprocessors and Interfacing	NIL	27/01/2020	84		Employability	Skill development (Technical core subject knowledge)
Basic Core1, Core2 (Lab VIEW)	NIL	25/11/2019	5		Employability	Skill development (Design and program skill)
CSS Corp master training	NIL	26/08/2019	13		Employability	Skill development (Software)
ADX-201 Sales force course	NIL	25/11/2019	6		Employability	Skill development (Software)
IIT Spoken Tutorial - Python 3.4.3 Test	NIL	20/01/2020	90		Employability	Skill development (Programming)
IIT Spoken Tutorial - C Test	NIL	15/07/2019	150		Employability	Skill development (Programming)
IIT Spoken Tutorial - Python 3.4.3 Test	NIL	02/07/2019	90		Employability	Skill development (Programming)
IIT Spoken Tutorial - Python 3.4.3 Test	NIL	22/07/2019	45		Employability	Skill development (Programming)
INFYTQ: Infosys Certification	NIL	10/02/2020	3		Employability	Skill Development (Multi-disciplinary)
Database Management System	NIL	29/07/2019	56		Employability	Skill development (Software)
ICTACT skill tester Introduction to Quantitative	NIL	23/07/2019	30		Employability	Problem solving

aptitude						
ICTACT skill tester AWS Cloud practitioner	NIL	23/07/2019	30	Employabil ity	Accessing Cloud	
ICTACT Step Plus Co mmunication Skills	NIL	23/07/2019	30	Employabil ity	Communicat ion Skills	
NPTTEL (Internet of Things)	NIL	01/07/2019	120	Employabil ity	Multi-disc iplinary Skill	
IIT Spoken Tutorial - QCAD	NIL	30/08/2019	42	Employabil ity	Skill development (Analysis)	
Spoken Tutorial - Introduction to Computers	NIL	03/09/2019	60	Employabil ity	Skill development (computer skill)	
Spoken Tutorial - JAVA	NIL	03/09/2019	60	Employabil ity	Skill development (computer skill)	
Spoken Tutorial -Python 3.4.3	NIL	03/09/2019	60	Employabil ity	Skill development (computer skill)	
NI LabVIEW Core 1 and Core 2 training	NIL	25/11/2019	5	Employabil ity	Skill development (Design and programming skill)	
GST in TALLY ERP-9"	NIL	11/11/2019	5	Employabil ity	Skill development- computerized according skill	
NPTTEL Python for Data Science	NIL	27/01/2020	28	Employabil ity	Skill Development (Programming)	

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 !!!		
No file uploaded.		

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
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No Data Entered/Not Applicable !!!

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

	Certificate	Diploma Course
Number of Students	1596	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
Sixth National conference on Refrigeration and Air Conditioning NCRAC - 2020	20/02/2020	8
Oracle Certified Java Programming	17/06/2019	75
Core JAVA	17/06/2019	56
C CPP Programming and its Applications	10/12/2019	75
Aptitude training	10/01/2020	139
JAVA coaching class	30/01/2020	22
VLSI Physical Design Training Program	13/01/2020	5
JAVA pilot online Training	09/01/2020	18
Smart India Internal Institute Level Hackathon 2020	22/01/2020	125
PHP and Mysql	08/08/2019	134
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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	23
BE	Electrical and Electronics Engineering	18
BE	Electronics and Communication Engineering	18
BE	Computer Science and Engineering	13
BTech	Information Technology	31
BE	Automobile Engineering	14
BE	Electronics and Instrumentation Engineering	3
MBA	Business Administration	50
MCA	Computer Applications	57

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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

The feedback is obtained from the students, faculty members, employers, alumni and parents. The analysis and utilization process is carried out as given below. Students Communication sent to staff and students about the procedure for getting online student feedback on faculty, Lab Incharge, Lab Assistant and College facilities a week before the process. HODs / Senior staff addresses the students regarding the significance of such feedback system. Online student feedback about faculty, Lab Incharge, Lab Assistant and College facilities are obtained once in a semester, as per the schedule given in the academic calendar. Information Systems Support Group (ISSG) facilitates the student's feedback collection process through online after collecting the necessary information from all the departments. Feedback is obtained from students, and their attendances are recorded. Students will fill the mark ranging from 10 (Excellent) to 2 (Poor) and will submit for final consolidation. Students feedback about individual faculty member is analyzed by Quality Circle - Successful Graduation Convenor and performance review meeting is conducted for the faculty who have secured less than class average. A Performance review is conducted by a team allotted by the principal along with Head of the Department to motivate the faculty members towards scoring higher student appraisal. Head of the Department along with overall lab in-charge analyzed the feedback about lab in-charge and lab assistants and motivate them to satisfy the students requirements towards acquiring technical skills. Feedbacks on college facilities are obtained from the students are analyzed and the summary is sent to the Management Representative / ISO for further action. The least attained criteria, from all the departments are discussed during the Management Representative Meeting of ISO for further improvement. Faculty Members Feedback on college facilities are obtained from the faculty members are analyzed and the summary is sent to the Management Representative / ISO for further action. The least attained criteria, from all the departments are discussed during the Management Representative Meeting of ISO for further improvement. Employers Employers 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 Parents Teachers meeting is conducted once in a semester. During the meeting the feedback is obtained regarding college facilities. The summary is sent to the Management Representative / ISO for further action. The least attained criteria, from all the departments are discussed during the Management Representative Meeting of ISO for further improvement.

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
BE	Mechanical Engineering	120	56	47
BE	Electrical and Electronics Engineering	120	46	39
BE	Electronics and Communication Engineering	120	75	71
BE	Computer Science and Engineering	120	115	103
BTech	Information Technology	90	75	70
BE	Automobile Engineering	60	10	7
BE	Electronics and Instrumentation Engineering	60	30	23
MCA	Master of Computer Applications	60	60	51
ME	Power Systems Engineering	24	7	3
MBA	Master of Business Administration	60	60	49

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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	1796	231	146	14	14

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

174	135	9	35	1	8
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)

Students' counselors (Faculty) are assigned for every 25 students, at the time of admission. Each student counselor maintain a diary contains details of students such as Date of Birth, Address for communication, Mobile number of their parents, marks obtained in the qualifying examinations etc. all to be filled by the students. The students counselor diary contains details of marks secured by the students in the Centralized Internal Test, attendance, CGPA secured in the Anna University examinations, course wise and semester wise, from first semester to eighth semester. Attendance shortage, if any, poor performance in the internal tests / Anna University examinations etc. will be commented by the student counselor in the appropriate places of the student counselor diary. It will be reviewed by HOD once in a semester to check the consistency of entry of various details. Disciplinary action taken, if any, the undertaking given by the students will be attached in the student counselor diary, so that it can be referred immediately for future reference. Student counselor meeting is conducted twice in a semester to check the updation of details in the diary as well as to counsel the students. The student counselor, continuously monitor the progress of the students and their suggestions brings betterment of the students in future. • As a result of the continuous monitoring of the students, by the mentor, students attendance are well maintained in the range of 95 and more. • No disciplinary incidents reported in the past due to continuous counseling. • Malpractices in the internal test / Anna University examinations is almost nil. • Career guidance classes conducted increases confidence level of the students during placements.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2027	174	1:12

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
5	5	Nil	5	Nil

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.S.Venkatanarayan	Professor	Distinguished Professor (International Researchers Connect and Awards 2019 - ARUNAI)
2019	Dr.S.Venkatanarayan	Professor	Energy Manager (National Productivity Council, Bureau of Energy Efficiency, Ministry of Power, Government of India)
2020	Dr.K.Gnanambal	Professor	Margadarshan of AICTE

2019	Dr.P.Loganthurai	Associate Professor	NPTEL Discipline Star Dec 2019
2019	Dr.V.Kejalakshmi	Professor	NPTEL active SPOC award
2020	Dr.R.Mohan Kumar	Associate Professor	Distinguished Professor (International Researchers Connect and Awards 2019 - ARUNAI)
2019	Dr.S.Miruna Joe Amali	Professor	Margadarshan of AICTE
2019	Dr.P.Udhayakumar	Professor	Top 50 Training and Placement officers in higher education across India from the Academic Council of Ulektz
2019	Dr.A.N.Balaji	Professor	Elite Silver in NPTEL-course on Manufacturing of composite.
2019	Mr.G.S.Santha venkatesh	Assistant Professor	NPTEL - online course Elite Gold and 2 Topper in course on product design using value engineering, IIT.
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	205	VII sem (final year)	02/12/2019	29/01/2020
BTech	205	III sem (second year), V sem (third year)	23/11/2019	29/01/2020
BE	104	VII sem (final year)	25/11/2019	29/01/2020
BE	104	III sem (second year), V sem (third year)	21/11/2019	29/01/2020
BE	106	VII sem (final year)	25/11/2019	29/01/2020

BE	106	III sem (second year), V sem (third year)	22/11/2019	29/01/2020
BE	105	VII sem (final year)	05/12/2019	29/01/2020
BE	105	III sem (second year), V sem (third year)	23/11/2019	29/01/2020
BE	114	VII sem (final year)	03/12/2019	29/01/2020
BE	114	III sem (second year), V sem (third year)	19/11/2019	29/01/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• Schedule of Internal examinations (class test, centralized internal test), Model theory and practical examinations are published in the Academic calendar, and uploaded in the college website for staff and students reference, one week before the commencement of the classes. • Examination Management Cell (EMC) holds the responsibility for continuous internal evaluation system, throughout the semester. Meeting of the EMC members conducted, regularly, procedures for the conduct of internal examinations discussed, including guidelines for invigilation duty, question paper pattern, discipline norms for the students, malpractices and punishments, automation entry of internal marks, submission of result analysis, disciplinary action taken, question paper scrutiny, etc. • Internal Test question papers are set following Bloom's Taxonomy. • The answer scripts of Continuous Internal Evaluation are given back to the students after evaluation. • The evaluated answer scripts are distributed to the students within three working days, performance is discussed in the class rooms and class committee meeting. • The marks are entered in college automation as well as in the Anna University web portal as per the schedule, for verification. • The internal examination results are analyzed by the HOD during faculty meeting and HOD's meeting, proper remedial action is taken such as conduct of Retest, Remedial Class, Counseling for Slow and Fast learners, etc. • Provision for applying for reevaluation and review of answer scripts of Anna University examinations exist, as per Anna university regulations, i.e., reevaluation, review. • In view of the COVID-19 pandemic, during the period of lock-down, online tests were conducted using digital platforms.

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

• Academic calendar of the college is prepared, every semester (Odd semester during the month of June and Even semester during the month of December) in accordance with the academic schedule of the Anna University. • Academic Calendar of the college is published in the college website, one week before the commencement of the classes, and also mailed to department mails for staff and students reference. Hard copy of the academic schedule is also displayed in the college and department notice board. • List of public holidays, parents-teacher meeting, founders day, sports day, college annual day, graduation day, tentative dates for state/National level technical symposium, National/International conferences, etc, are included in the academic calendar

of the college. • Schedules of commencement of the classes, Last working day, commencement of practical examinations, commencement of end semester examination and reopening day for the next semester are given in the academic calendar. • Schedules of Faculty meeting, Course committee meeting, Class Committee meeting, Student's counselor meeting, Administrative committee meetings of NBA, NAAC are included. • Internal test - class test/centralized internal test, Model practical/Theory examinations, Retest, Remedial classes schedules are available with the academic calendar. • Commencement of classes for the next semester is also included in the academic calendar. • Academic calendar discussed in the HODs meeting, Faculty meeting and class committee meeting so as to disseminate various schedules and to plan college/department/administrative cells activities accordingly.

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.klnce.edu>

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
403	ME	Communication Systems	1	1	100
411	ME	Power Systems Engineering	4	4	100
402	ME	CAD/CAM	1	1	100
107	BE	Electronics and Instrumentation Engineering	21	15	71.42
102	BE	Automobile Engineering	35	20	57.14
205	BTech	Information Technology	72	60	83.33
104	BE	Computer Science and Engineering	119	106	89.07
106	BE	Electronics and Communication Engineering	118	96	81.36
105	BE	Electrical and Electronics Engineering	86	74	86.05
114	BE	Mechanical	120	89	74.17

[View File](#)**2.7 – Student Satisfaction Survey**

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

http://www.klnce.edu/download/2019%20-%202020/college_facility.html

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
Projects sponsored by the University	730	KLNCE-QCARD	1.05	1.05
Projects sponsored by the University	365	KLNCE-QCARD	0.25	0
Projects sponsored by the University	365	KLNCE-QCARD	0.22	0
Interdisciplinary Projects	730	DST	85.35	69.97
Minor Projects	365	Industry Institute Partnership Cell, KLNCE	0.05	0.05
Minor Projects	365	Industry Institute Partnership Cell, KLNCE	0.05	0.05
Minor Projects	365	Industry Institute Partnership Cell, KLNCE	0.15	0.15
Major Projects	365	Unnat Bharat Abhiyan	1	1
Major Projects	365	Unnat Bharat Abhiyan	0.9	0.9
Major Projects	1095	AICTE-Research Promotion Scheme	6	5.9

[View File](#)**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
---------------------------	-------------------	------

Online Technical Talk series	IT	27/04/2020
ICTACT Virtual Workshop on BOT Unleashed RPA Course	IT	30/01/2020
IOT Spark	IT	27/09/2019
Special Lecture on IT Other Opportunities	IT	10/08/2019
Special Lecture on Campus to Corporate	IT	06/09/2019
Business intelligence with Qlick	MCA	27/07/2019
Cloud Computing- Amazon web services , Hadoop	MCA	27/08/2019
Business Intelligence and Analytics	MCA	06/06/2020
Workshop on "DJANGO, Struts Hibernate	MCA	17/12/2019
Global career opportunities for management students	MBA	12/07/2019
Employability skill for MBA students	MBA	13/07/2019
Orientation Program on VIBRANT TAMILNADU	MBA	30/07/2019
Mobile Banking	MBA	10/08/2019
Igniting minds for professional success	MBA	06/09/2019
Entrepreneur awareness program	MBA	15/10/2019
Business Law	MBA	19/10/2019
Corporate Tax Planning GST	MBA	18/11/2019
Intellectual Property Rights	MBA	27/11/2019
Digital Marketing	MBA	29/01/2020
Digital Transformation through Managerial Skills	MBA	08/02/2020
Time Management - FDP	MBA	11/02/2020
6th National Conference on Refrigeration and air conditioning NCRAC-2020	Mechanical	20/02/2020
State Level Students Technical Symposium IMPELZ 2K'19	Mechanical	10/08/2019
Open day at CECRI	Mechanical	26/09/2019
Advancement and	Mechanical	05/08/2019

opportunities in Automotive Engineering		
Enhancing the Quality of Academic and Sponsored Research	QC-ARD	04/06/2020
Design and Simulation of Photovoltaic Systems for Standalone Applications	EEE	29/06/2020
Trends and Opportunities in VLSI Design	EEE	27/06/2020
Job Sectors in IT and Emerging Technologies	EEE	22/06/2020
Opportunities in IT sector and Skill Sets Expected	EEE	20/06/2020
Electronic Circuit Design, PCB Layout Design, New Product Development, Quality Management for Successfully Executing the Projects	EEE	09/06/2020
PCB Design using KICAD EDA	EEE	30/05/2020
Higher Studies in Abroad (Opportunities in AI,ML)	EEE	23/05/2020
Forecasting Your Future on IT	EEE	18/05/2020
Electrical Power Utility Management -2020	EEE	15/05/2020
Life After the Four Walls	EEE	09/05/2020
GATE IES Preparation	EEE	06/05/2020
Electrical Engineer Career Opportunity	EEE	11/04/2020
Energy Audit and Management	EEE	27/02/2020
Electrical Design Introduction	EEE	31/05/2020
Recent Trends in power Electronics Power System scenario and Harmonic control techniques for use in power electronics and motor drive	EEE	21/08/2019
Transformer-yard-in-power house-Assembling-Testing and cooling arrangements	EEE	27/07/2019
What we expect out of freshers and types of IT Industries	EEE	15/07/2019

Electric Vehicle Controller Converter Design	EEE	08/02/2020
Electronics Made Easy	ECE	01/07/2019
Mechatronics Society	ECE	04/07/2019
Digital Signal Processing	ECE	12/07/2019
Artificial Intelligence-Python	ECE	27/07/2019
Digital Marketing	ECE	03/09/2019
Career in IT industry for ECE students	ECE	18/12/2020
Data science and Guidance	ECE	13/01/2020
Job Opportunities in "Business Intelligence and Data Analytics"	ECE	06/05/2020
"Gaining insights into the interdisciplinary research: Challenges and Benefits"	ECE	21/05/2020
"Career Opportunities and Recent Development in Big Data Analysis"	ECE	23/05/2020
"Overview - Next Generation Network (NGN)"	ECE	25/05/2020
AM and FM Broadcasting	ECE	26/05/2020
"Current and Emerging Careers and Opportunities in Information Technology - An Insight"	ECE	30/05/2020
"Gesture Recognition using Machine Learning"	ECE	06/06/2020
"Future Opportunities in Embedded Systems"	ECE	08/06/2020
"High Speed Board Design and Challenges"	ECE	13/06/2020
Fundamentals of Python Programming	ECE	27/05/2020
Measurement using Spectrum Analyzer and VNA	ECE	31/05/2020
"IOT Automotive Diagnosis and Demo using IFTTT Adafruit IO Server"	ECE	30/06/2020
ADX-201 Salesforce course	CSE	25/11/2019
CSS crop master training	CSE	22/08/2019
PHP and Mysql	CSE	08/08/2019
Towards Industrial Revolution 2020 Session 1	CSE	29/04/2020

Scope of Ethical Hacking	CSE	06/05/2020
Industry overview and Etiquettes	CSE	08/05/2020
ERP Software Role in Supply chain Management	CSE	07/05/2020
PlantUML	CSE	06/06/2020
Awareness on Intellectual property rights	CSE	08/02/2020
Entrepreneurship Awareness Program on Startups	CSE	14/02/2020
Entrepreneurship - Post Covid Oppurtunities	CSE	10/06/2020
Mindsets and milestones ahead of students community after covid 19	EIE	20/05/2020
Career guidance after Quarantine	EIE	29/05/2020
One Day Workshop on "Selection. Processing and performance of Engineering Materials"	Automobile Engineering	28/09/2019
Six Days FDTP on "ME8491-Engineering Metallurgy" jointly sponsored by Anna University, Chennai	Automobile Engineering	25/11/2019
Online Innovative Vehicle Design Contest 2020	Automobile Engineering	28/04/2020
Special Skype Talk on Source Code Versioning	IT	12/02/2020
One day workshop on Software Testing	IT	13/03/2020
International Online Seminar on Big Data Engg., Analytics for faculty Members	IT	25/05/2020
Guest Lecture on Digital marketing	IT	15/02/2020
CSI - State Level Students Technical Convention	IT	06/03/2020
Interview Based Softskills Training	IT	11/01/2020
One Day Quantitative Aptitude Training	IT	11/01/2020
Industry Trends on Technology Essential Skills for Better	IT	04/10/2019

Opportunities		
One Day Softskill Training on BRAND YOURSELF	IT	14/09/2019
CLUSITER 2019 - Students Technical Symposium	IT	01/10/2019
CSI - State Level Students Technofeast	IT	01/10/2019
Special lecture on Web programming	IT	12/07/2019

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
Best Paper Award	Dr.R.Ashokkumar	Theni Kammavar Sangam college of technology	12/03/2020	5th National Conference on Advances in Mechanical Engineering Applications, NCAMEA20
Best Paper Award	A.Karthikeyan	K.L.N.College of Engineering	20/02/2020	6th National conference on Refrigeration and air conditioning, NCRAC2020
Best Paper Award	Dr.C.Anbumeen akshi	K.L.N.College of Engineering	20/02/2020	6th National conference on Refrigeration and air conditioning, NCRAC2020
Best Paper Award	T.Saravanakumar	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology - 2020
Best Paper Award	M.Ramkumar	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology - 2020
Best Paper Award	M.Mathankumar	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology -

				2020
Best Paper Award	S.Balanagaraj	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology - 2020
Best Paper Award	N.Nagasubramanian	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology - 2020
Best Paper Award	Dr.M.R.Thansekhar	Rathinam Technical Campus, Coimbatore	21/03/2020	2nd International Conference on Recent Trends in Engineering and Scientific Technology - 2020
Contributors of Recognition	Dr.P.Udhayakumar	The Academic council of Ulektz	30/06/2020	Top 50 training and placement officers in higher education across India
View File				

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 !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
12	0	0

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

Name of the Department	Number of PhD's Awarded
Mechanical	6
EEE	1
ECE	2
CSE	3

Mechanical and Automobile engineering	1
IT	2
MCA	1
Chemistry	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	Mechanical	15	2.21
International	EEE	3	5.09
International	ECE	1	3.05
International	CSE	4	3.16
National	EIE	2	4.78
International	IT	1	0.11
International	Physics	3	2.55
International	MBA	1	0

[View File](#)

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
IT	4
CSE	6
ECE	22
EEE	26
Mechanical	21

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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
Investigation and characterization of Copper-Fly ash-Tungsten hybrid composites synthesized through P/M process	S Thanga Kasi Rajan, A N Balaji, G R Raghav K J Nagarajan and S C Vettivel	Materials Research Express	2020	0	K.L.N. College of Engineering	Nil
Effect	K.J.	Internat	2020	2	K.L.N.	2

of agro waste ?-cellulosic micro filler on mechanical and thermal behavior of epoxy composites	Nagarajan, A.N. Balaji, K. SathickBasha, N.R. Ramanujam, R. Ashok Kumar	Journal of Biological Macromolecules			College of Engineering	
Preparation of bio-eco based cellulose nanomaterials from used disposal paper cups through citric acid hydrolysis	K.J. Nagarajan, A.N. Balaji, S. ThangaKasi Rajan, N.R. Ramanujam	Carbohydrate Polymers	2020	9	K.L.N. College of Engineering	9
Characterization and corrosion effects of friction surfaced IS - 2062 E250 CU with AA6063	Vasanth R, Mohan K, Sathish, R. Nagarajan, R. Jayaprakash, R. Ashok kumar	Materials Research Express	2019	0	K.L.N. College of Engineering	Nil
Effect of sulfuric acid reaction time on the properties and behavior of cellulose nanocrystals from Co cosnucifer avar Auran tiacapeduncle's cellulose micro fibers	Mr. K.J. Nagarajan, Dr. A.N. Balaji, Mr. S. ThangaKasi Rajan, Mr. K. SathickBasha	Materials Research Express	2019	1	K.L.N. College of Engineering	1
Preparation	K.J. Naga		2019	3	K.L.N.	3

ion and characterization of alkali treated cocnut fiber reinforced epoxy composites	rajan,A.N. Balaji,N.R .Ramanujam ,S. Thanga KasiRajan	Materials Research Express			College of Engineering	
Effect of hybrid reinforcement at stirred zone of dissimilar aluminium alloys during friction stir welding	R.Ashokkumar, G.R. raghav,K.J . Nagarajan,Mr. Sathish,Mr. Rengarajan,P .Suganthi, V. Vignesh	Metallurgical Research Technology	2019	1	K.L.N. College of Engineering	1
Effect of tungsten reinforced cermet nanocomposites on mechanical, tribological and corrosion behaviour of mechanically alloyed Co-25C Cermet nanocomposites	Raghav G R Balaji AN , Selvakumar N, Muthukrishnan D and Sajith E	Materials Research Express	2019	2	K.L.N. College of Engineering	2
A new method of enhancing heat transfer in sudden expansion channel using vortex generators with toe-out and toe-in con	S.Ramathan, M.R. Thansekhar , P.Rajeshkanna, PremGunnasekaran	Journal of Mechanical Science and Technology	2019	0	K.L.N. College of Engineering	Nil

figuration s by acquiring perquisite s of recir culation and secondary vortex flow						
Effect of Al ₂ O ₃ /w ater nanofluid on Conjugate Free Convection in a Baffle Attached Square Enclosure	N. Nagas ubramanian ,M. R. Tha nsekhar,M. Venkatesan ,K. Ramanathan	MECHANIKA	2019	0	K.L.N. College of Engineerin g	Nil
View File						

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
Effect of sulfuric acid reaction time on the properties and behavior of cellulose nanocrysta ls from Co cosnucifer avar Auran tiacapedun cle'scellu lose micro fibers	Mr. K.J. Nagarajan, Dr. A.N.Ba laji,Mr.S. ThangaKasi Rajan, Mr. K.SathickB asha	Materials Research Express	2019	10	1	K.L.N. College of Engineerin g
Preparat ion and ch aracteriza tion of alkali treated co	K.J.Naga rajan,A.N. Balaji,N.R .Ramanujam ,S. Thanga KasiRajan	Materials Research Express	2019	5	3	K.L.N. College of Engineerin g

cosnucifer avaraurant iaca peduncle fibers reinforced epoxy composites						
Preparation and characterization of alkali treated cosnucifer avaraurant iaca peduncle fibers reinforced epoxy composites	K.J.Nagarajan,A.N.Balaji,N.R.Ramanujam,S. Thanga KasiRajan	Materials Research Express	2019	10	3	K.L.N. College of Engineering
Effect of hybrid reinforcement at stirred zone of dissimilar aluminium alloys during friction stir welding	R.Ashokkumar, G.R. raghav,K.J. Nagarajan,Mr. Sathish,Mr. Rengarajan,P.Suganthi, V. Vignesh	Metallurgical Research Technology	2019	5	1	K.L.N. College of Engineering
Effect of hybrid reinforcement at stirred zone of dissimilar aluminium alloys during friction stir welding	R.Ashokkumar, G.R. raghav,K.J. Nagarajan,Mr. Sathish,Mr. Rengarajan,P.Suganthi, V. Vignesh	Metallurgical Research Technology	2019	3	1	K.L.N. College of Engineering
Effect of hybrid reinforcement at stirred zone of dissimilar aluminium	R.Ashokkumar, G.R. raghav,K.J. Nagarajan,Mr. Sathish,Mr. Rengarajan,P.Suganthi,	Metallurgical Research Technology	2019	3	1	K.L.N. College of Engineering

alloys during friction stir welding	V. Vignesh					
Effect of tungsten reinforcement on mechanical, tribological and corrosion behaviour of mechanically alloyed Co-25C Cermet nanocomposites	Raghav G R Balaji A N , Selvakumar N, Muthukrishnan D and Sajith E	Materials Research Express	2019	3	2	K.L.N. College of Engineering
Effect of tungsten reinforcement on mechanical, tribological and corrosion behaviour of mechanically alloyed Co-25C Cermet nanocomposites	Raghav G R Balaji A N , Selvakumar N, Muthukrishnan D and Sajith E	Materials Research Express	2019	10	2	K.L.N. College of Engineering
A new method of enhancing heat transfer in sudden expansion channel using vortex generators with toe-out and toe-in configurations by acquiring requisite	S.Ramathan, M.R. Thansekhar , P.Rajeshkanna, PremGunnasekaran	Journal of Mechanical Science and Technology	2019	8	Nil	K.L.N. College of Engineering

s of recirculation and secondary vortex flow						
Effect of Al ₂ O ₃ /water nanofluid on Conjugate Free Convection in a Baffle Attached Square Enclosure	N. Nagasubramanian, M. R. Thangasekhar, M. Venkatesan, K. Ramanathan	MECHANIKA	2019	8	Nil	K.L.N. 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	24	1236	10	6
Presented papers	30	49	Nil	Nil
Resource persons	Nil	8	54	63
View File				

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
Power Point Presentation Competition for Create Awareness about Skill Development among Students in association with The Palkar Engineers Forum - Madurai	NSS	2	24
NSS Rotaract Club of KLNCE jointly organized Teachers Day Celebration Competitions for all Teaching Non-	NSS	2	40

Teaching staffs			
Signature Campaign on "BAN PLASTICS" for NSS Day Celebration	NSS	2	8
150th Gandhi Jeyanthi Celebration Competitions (Essay Writing , Elocution Drawing)	NSS	2	15
Vigilance Awareness - Expert Talk in the theme of "INTEGRITY A WAY OF LIFE" inassociation with Canara Bank - Madurai	NSS	2	45
Seven Days NSS Special Camp at SAMANATHAM	NSS	2	48
157th Swami Vivekananda Birthday celebration - Expert Talk in the theme of "ONE INDIA, SUCCESSFUL INDIA" inassociation with Vivekananda Kendra - Madurai	NSS	2	42
Blood Donation Camp in association with Government Rajaji Hospital- Madurai	NSS	2	35
Three Days Awareness Programme about Corona Virus inassociation with Govt.,Hospital- Poovanthi Meenakshi Mission Hospital	NSS	13	60
NSS Rotaract Club of KLNCE jointly organized Teachers Day Celebration Competitions for all Teaching Non-Teaching staffs	NSS	2	40

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

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Ethical and Managerial Skill	Sourashtra Girls School and ECE department	Quiz Program	4	60
Social Activity	ECE Department	Issued Nilavembu Kasayam to parents	5	100
Corporate Social Responsibility CSR	EEE	Conservation of Electrical Energy, Safety Importance of Earthings	1	23
Corporate Social Responsibility CSR	EEE	Renewable Energy, Conservation of Electrical Energy Safety	2	64
Institute Social Responsibilities (ISR) activities	Mechanical Department and Automobile	Road Safety Awareness Camp Organized by Mechanical and Automobile Department	6	20
Self supported	WEC cell	Stress management skills (6.6.2020)	2	10
Self supported	WEC cell	"????????????????????????????????" (15.05.2020)	2	13
Self supported	WEC cell	Womens Day Celebration(07.03.2020)	2	40
Self supported	WEC cell	One day workshop on "Handmade Soap Making"(15.02.2020)	2	40
Self	POSH cell	Awareness	2	38

supported		programme on "Healthy Behaviours in A dolescence"(15. 02.2020))	
View File			

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
Kanan Devan Hills Plantations Pvt Ltd, Madupatty Factory Tourism Project, Munnar	77	K.L.N. College of Engineering	1
Kanan Devan Hills Plantations Pvt Ltd, Madupatty Factory Tourism Project, Munnar	37	K.L.N. College of Engineering	1
ISRO Propulsion Complex (IPRC), Mahendragiri, Tirunelveli	50	K.L.N. College of Engineering	1
Industry Visit Kwality Coil Product P Ltd, Madurai	92 students, 3 faculty	K.L.N. College of Engineering	1
Kodaikanal Solar Observatory	22	K.L.N. College of Engineering	1
TNSTC, Pasumalai, Madurai	Student-128 staff-9	K.L.N. College of Engineering	1
M/s. V.V.V Sons Edible Oils Ltd., Virudhunagar	Student-42 staff-3	K.L.N. College of Engineering	1
M/s. V.V.V Sons Edible Oils Ltd., Virudhunagar	Student-43 staff-3	K.L.N. College of Engineering	1
M/s. V.V.V Sons Edible Oils Ltd., Virudhunagar	Student-43 staff-3	K.L.N. College of Engineering	1
Madura Coats, New Jail Road, Southern Railway Colony, Madurai, Tamil Nadu 625016	29	K.L.N. College of Engineering	1
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	Duration From	Duration To	Participant
-------------------	----------------------	------------------------	---------------	-------------	-------------

		institution/ industry /research lab with contact details			
Industrial Exposure	Project training	IndiraGandhi Centre for a tomicroresearch, kalpakkam	13/12/2019	04/03/2020	1
Industrial Exposure	Project training	Amman try steels Ltd.,	23/12/2019	04/01/2020	3
Industrial Exposure	Project training	TVS sundaram fasteners Ltd.,	30/12/2019	28/01/2020	3
Industrial Exposure	Project training	Sahana textile industry	28/12/2019	25/01/2020	3
Industrial Exposure	Project training	TVS sri chakra Ltd	09/03/2020	13/03/2020	3
Industrial Exposure	Project training	southern r ailway,ponma lai	06/12/2019	22/12/2019	1
Industrial Exposure	Project training	Indian Ordnance factory factory,Ministry of Defence,T richy	30/12/2019	11/01/2020	1
Industrial Exposure	Project training	Sun pressing private limited,Maduari	03/01/2020	11/12/2020	3
Industrial Exposure	Project training	Dalmia cement(Bharat l imited),Ariy alur	06/01/2020	24/01/2020	3
Industrial Exposure	Inplant training	Ashok leyl ond,Hosur.	30/12/2019	29/01/2020	1
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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
Pentaxial Technologies , Madurai	05/10/2019	Training, Projects	20
ICTACT	22/08/2019	Employability skill Development	176

		training	
Export Promotion Centre, Tamilnadu Chamber of Commerce, Madurai Chapter	21/12/2019	To promote the Concept of Entrepreneurship	8
View File			

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
80	17.74

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	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
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Classrooms with Wi-Fi OR LAN	Existing
View File	

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
Office Automation	Fully	6	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	68495	26626317	325	140613	68820	26766930
Reference Books	3027	2100000	Nill	Nill	3027	2100000
e-Books	678	Nill	Nill	Nill	678	Nill

Journals	135	403260	Nil	Nil	135	403260
e-Journals	9	7312933	2	612022	11	7924955
Digital Database	125	Nil	10	Nil	135	Nil
CD & Video	3098	Nil	12	Nil	3110	Nil
Weeding (hard & soft)	Nil	Nil	110	19000	110	19000
Others(s pecify)	26	Nil	5	Nil	31	Nil
Others(s pecify)	150	Nil	10	Nil	160	Nil
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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
All Faculty Members	Course content, Question Bank, Lab Manuals, Quiz, Assignment	Moodle 3.7, Lamp Server, Google Forms, Google Class Room, Microsoft Teams	01/04/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1741	1426	1741	10	176	75	18	200	36
Added	0	0	0	0	0	0	0	0	0
Total	1741	1426	1741	10	176	75	18	200	36

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

200 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
Aview (Amrita Interactive and E-Learning world)	Nil

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
237.99	132.54	389.07	302.97

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)

Maintenance and utilization of the Infrastructure Facilities: The maintenance and upkeep of the infrastructure facilities are carried out with the support of the heads of the particular infrastructure department. The following is the organizational chart of the departments. **Civil Maintenance:** The civil maintenance is headed by the Teaching Faculty. He is in charge of four divisions, water and sewage, building, carpentry and Gardening. Each division is headed by a supervisor and is employed by respective skill workers. **Computers, Software's UPS:** The computers are maintained in the Institution by "Information System Support Group (ISSG)". This division provides the integrated IT services like smooth running of automation, upgradation and maintenance of automation package, college website, biometric services, troubleshooting of hardware, networking equipment including internet connectivity, procurement of hardware, software. **Vehicles: Transport** There are forty three buses, two staff van, 4 cars one Ambulance. The buses are plying covering all the routes for the use of staff and students. The two vans are exclusively utilized for HODs, Senior Professors and Guest speakers. The Emergency Van (Ambulance) is available in the college 247 hours for students and faculty at the time of emergency. **Electrical Maintenance:** The electrical maintenance section is headed by the HOD/EEE. A senior professor in the electrical department is supported by an electrical maintenance (Manager) of the campus with the support of Electrical Engineer, Supervisor and Electricians. **Library :** The library is headed by librarian and he is the premises superior for both U.G. and P.G. library. He is supported by the assistant librarian, supporting staff (Senior and junior clerks) for Journal and Reference sections. In addition to the above staff, junior safety Assistants, and attenders will help the students for searching and lending of the books in the library. **Physical Education:** The physical education department is facilitated by the physical directors to educate the students. The marker of the department makes the play field ready for the students, by marking the ground and providing the play kits. **Health Centre:** The health center of the college is governed by the Medical officer. The Doctor is supported by a pharmacist and a nurse. The nurse is assisted by nursing assistants. The health center has three beds and has enough space to cater the needs of the patients and it is utilized by students, staff of K.L.N.C.E. and by the village dwellers around college campus. **Security:** The Security of the college is headed by the senior Teaching staff. He is supported by the Security officer and the sergeant. Security officer assigns the duty to the security guards to control and monitor the college the premises. The sergeant takes care of the cleanliness inside the college with the support of Housekeepers and sanitary workers. **Laboratory Equipment:** The equipment and machines in the laboratory/workshop are maintained by the lab Incharge(s)/workshop InCharge(s) with the advice of HOD through ISSG.

<https://www.klnce.edu/download/2019%20-%202020/MaintenancePolicies.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	---	0	0
Financial Support from Other Sources			
a) National	First Graduate / BC / MBC / SC / ST Scholarships	1369	18969795
b) International	---	Nil	0
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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
Induction Program	29/07/2019	357	Academic departments of K.L.N. College of Engineering
Personal Counselling	02/07/2019	695	Dr.S.Gomathy Professional Counsellor and Internal Resources
Yoga Meditation	28/08/2019	315	Brahma Kumaris Rajayoga Meditation Center
Bridge courses	17/06/2019	266	Academic departments of K.L.N. College of Engineering, Connect
Language lab	01/07/2019	747	English department of K.L.N. College of Engineering
Remedial coaching	27/07/2019	525	Academic departments of K.L.N. College of Engineering
Soft skill development	01/07/2019	1825	Face Academy, Six Phrase, Soft Square, Innate Talent, Connect, Syasans Career Analytics, Top Freshers, Elevation, Maho jase Technology, I3 Indya Technology, Vision 20 Plus, HPOC India Pvt. Ltd., Executive Employment Branch Office

Mentoring	01/07/2019	2027	Academic departments of K.L.N. College of Engineering
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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	Continuing Education Cell	305	241	10	4
2020	Continuing Education Cell	200	120	1	20
2019	AMCAT	181	Nil	53	28
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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
9	9	15

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Delphi TVS Technologies Ltd., Tata Consultancy Services Limited, Sri Mookambika Infosolutions Pvt. Ltd., Jayashree spun Bond Pvt. Ltd., Muthoot Finance Ltd., Focus Academy for Career Enhancement, Chain-sys	279	209	Atos Syntel, Sutherland Global Services, Tata Consultancy Services Limited, Aptivo Software, HCL Technologies, Wipro Limited, GOVE Enterprises, IVTL InfoView Technologies	165	57

India Pvt. Ltd., IVTL InfoView			Pvt. Ltd., Cognizant Technology Solutions, Innovsource Services Pvt. Ltd.,		
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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	2	B.E.	Electrical and Electronics Engineering	K.L.N. College of Engineering	M.E. (Power Systems Engineering)
2019	1	B.E.	Automobile Engineering	Oxford Brookes University, England	MSc. Motorsport Engineering
2019	2	B.E.	Automobile Engineering	Sri Krishna College of Engineering and Technology, Coimbatore	MBA (Operation Marketing)

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

Items	Number of students selected/ qualifying
GATE	2
GMAT	1
Any Other	8

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Football (Men)	Anna University - Zonal Level	12
Kabbadi (Men)	Anna University - Zonal Level	32
Basket Ball (Men and Women)	Anna University - Zonal Level	24
Volley Ball (Men and Women)	Anna University - Zonal Level	28
Chess (Men and Women)	Anna University - Zonal Level	10

Kho-Kho (Men)	Anna University - Zonal Level	12
Ball Badminton (Men and Women)	Anna University - Zonal Level	20
Cricket (Men)	Anna University - Zonal Level	18
Badminton (Men and Women)	Anna University - Zonal Level	13
Table tennis (Men and Women)	Anna University - Zonal 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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
No file uploaded.						

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

The institution promotes inclusive practices for social justice and better stakeholder relationships. The institution promotes value-based education for inculcating social responsibility and good citizenry amongst its student community. The institution has the required infrastructure and promotes active participation of the students in social, cultural and leisure activities. Encouraging students' participation in activities facilitates developing various skills and competencies and foster holistic development. Several committees are established to develop the wellbeing of the student on academic, co-curricular and extra-curricular areas. Student members play a predominant role in these committees to propose their suggestions, ideas and information for effective functioning and they are assigned memberships privileges at different engineering communities such as IEEE, IETE, SAE, ISTE, CSI, IEI etc. The active participation of the students in organizing events through these committees builds their organizational ability to work as a team. Department Advisory Committee (DAC) and Unnat Bharat Abhiyan (UBA) scheme provides a channel of communication between the faculty, administration and the student body in matters of general and academic interests. Regular meetings are conducted to frame and review the works of the committee. Technical committee focuses on overall growth of the students with an emphasis on academic related issues, formulated with the coordination of the departments and the institute to encourage the students to interact and share their knowledge with the outer world through their active participation in workshop/Paper contest/Conferences/Project contest etc. The committee brings together industrial and subject experts to hold trainings which facilitates in bridging the gap between the institute and industry. This in turn gives the students an exposure on industrial requirements and technical trends beyond the classroom learning. Value-added courses are carried out by several cells convened within the department such as SAE INDIA KLNCE Collegiate Club SPC (Automobile), The Indian Society of Heating Refrigerating and Air Conditioning (Mechanical), Association of Computer Engineers CSI (Computer Science Engineering), EINSTEA association (Electronics Instrumentation Engineering), Elite association

(Electrical Electronics Engineering), Microelectronics Club Social Club (ECE), ODYSSEY (Mathematics Department), KLNCE Science and Humanities Association (Science Humanities Departments), Emerging Information Technologist Association (MCA) and GEMS Association and CII Chapter Young Indian Madurai Chapter (MBA). These associations aim in conducting activities to further supplement their theoretical knowledge and also develop the students' personality as well as strengthen their learning capabilities. Guidance is given to the students on various aspects of building a career and to assist them in exploring new opportunities. The knowledge gained through these programmes prepares them to face challenges of the future. The cultural and literary association conducts cultural activities which provide an opportunity for socialization and self-assessment among the students in exhibiting their hidden talents. Extra-curricular programme such as NSS, YRC and Rotaract clubs helps the students to identify the problems of the community, gain skills in mobilizing as a team and to utilize their knowledge to find solution. Other welfare committees such as Hostel and class committees effectively function in addressing the grievances and suggestions of the students through their representatives periodically.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

9476

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

430147

5.4.4 – Meetings/activities organized by Alumni Association :

An alumni meeting was conducted on 26-10-2019 at K.L.N. College of Engineering, Pottapalayam. 150 members attended the meeting.

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)

1. Decentralization: The institution has a well formulated financial policy and procedures which ensures effective and optimal utilization of finances for academic, administrative and development purposes. Each department prepares the budget according to request from lab in-charges and faculty members and forwarded to the Principal for sanction. Principal forwards the overall budget for the college to the management for approval. The budget is reviewed by the management and approved. The institute also makes a provision for advance/ additional funds. The Principal and the Heads discuss the requirements and decide in allotting financial resources for various purposes ensuring optimum use of available financial resources. The Governing Body studies the annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. Department heads ensure that suitable equipment with the right specifications are procured at competitive, optimal prices. Budget utilization is periodically reviewed by the management. 2. Academic Functioning: College provides authority at various levels. Each department is given academic freedom by empowering the head of the department and faculty members. Each department is empowered to prepare its own Time Table, to organize workshops, expert talks and Faculty Development Programs, to plan for

in-plant training and industrial visits to students etc. Each department is empowered to have Memorandum of Understanding (MoU) with industries which in turn help their students to get internships, to do mini projects etc. Quality Circles: Our College has constituted four quality circles namely Quality Circle for Quality Education, Quality circle for successful graduation, Quality Circle for Potential Employability and Quality Circle for Advanced Research and Development. Each quality circle has a convener and faculty members from each department. They used to convene a meeting once in a year to plan the activities for the whole year. QC for quality education enables students to do online courses such as NPTEL courses and value added courses. QC for successful graduation helps the departments to produce more successful graduates. QC for potential employability enables more students to get employment opportunities through Training and Placement cell. QC for Advanced Research and Development encourages faculty members to apply for funding projects and also provides seed amount to faculty members for their innovative projects. Academic Support Units: As a part of decentralization various cells such as Prevention of Sexual Harassment (POSH), Women Empowerment Cell, Industry Institute Partnership cell (IIPC), Innovative Promotion Cell (IPC), Staff Development Forum (SDF), Entrepreneurship Development Cell (EDC), Career Development Cell, Continuing Education Cell were constituted with conveners and department representatives. They used to convene meetings with principal in order to review their objectives.

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	Admission team headed by Principal is responsible for admission of students. This team comprise of faculty members from various departments. They have implemented various admission strategies to improve the number of students admitted in each department. Advertisements were given in leading news papers. Admission of the students is through online counseling system conducted by Anna University, Chennai. Management has admitted students in management quota if they satisfy the minimum requirements. In PG also, 30 percentage of the students were admitted through counseling and remaining 70 percentage were admitted through management. PG departments such as MBA and MCA have their own admission strategies to admit students in their respective departments.
Industry Interaction / Collaboration	Our college has Industry Institute Partnership Cell (IIPC) to bridge the gap between Industry and Institute. This cell has a Coordinator and faculty members from each department. This cell plans activities for an academic year

and executed it with the help of all stake holders. Each department organizes an expert talk, workshops and faculty development programs with the help of this cell by inviting industrial experts for the benefit of staff members and students. College has a MoU with Infosys and through this MoU, students of various departments got Campus Connect certification from Infosys. College has got MoU with Honeywell which enables the computer science students to get internships in Honeywell. MoU with BSNL helps the students to undergo in-plant training in BSNL. Sri Moogambiga Info Solutions Pvt Ltd., (SMI) has established a lab in PG Block for giving training to students in recent trends and technologies after signing a MoU with our college. Placement Cell of our college organizes on-campus drives with leading industries and 60 percentage of the students got their placement opportunities. Industry Interaction is integrated for all courses Collaboration with industries and other noted institutions to organize seminars, workshops and value added courses

Human Resource Management

The strength of teaching faculty is 172 and non teaching is 112. Fifty percent of teaching staff have completed 10 years of service in our college. An average of 10 years of experience among faculties in various departments is a good sign of overall satisfaction. A special training is given for junior staff members regarding class room teaching, time management etc. The registration fee is given to staff members to attend workshops, short term courses, faculty Development Programs organized by other colleges. Cash incentive is given to staff members who have published their papers in reputed journals and presented their papers in International Conferences. Seed money is given to staff members for executing their research projects and making them a product. Faculty members of various departments have utilized the financial support given by the college and obtained certifications from NPTEL, Published papers in reputed journals and presented papers in International Conferences. Staff members both

teaching and non teaching are provided with medical insurance and provident fund as a sign of welfare practice.

Welfare measures implemented by management make the employees to work safely. Various cells such as Grievance Redressal Cell, Anti Ragging Committee, Prevention of Sexual Harassment (POSH) has been established. ? Faculty and Staff recruitment: Faculty requirement is identified by Head of the department based on workload, Student Staff ratio and request has been given to Principal. He has forwarded it to management in order to get approval from them. Advertisement is given in leading news papers regarding the requirement of staff and their eligibility criteria. The applications received from potential candidates are scrutinized and short listed candidates are called for interview. An Expert academicians in the corresponding domain is identified and invited to head the technical faculty recruitment panel along with other senior faculty members of the department. The candidates who perform well will be selected as faculty and appointment order is given within a week. Candidates are selected as faculty based on their domain knowledge, technical skills, previous experience etc. The institute provides freedom of work, opportunity to excel in the individual's domain area and functional office infrastructure. For non teaching staff recruitment, short listed candidates were given online exams and their knowledge in laboratory programs was identified.

Library, ICT and Physical Infrastructure / Instrumentation

Central library of the college is responsible for procuring books, journals every year as per the AICTE requirements. PG library is responsible for MBA and MCA departments. College has paid the renewal fees for IEEE online journals. Students and staff can access the online journals from the central library. Each department has its own library with text books, research publications and presentation of their staff members and students. The College library is enabled with free WiFi facility for the use of e-resources within the campus. ICT The ICT facilities in the class rooms have been increased. The internet connectivity has also been maintained

at 200 Mbps. Online test was also conducted for various campus interview processes. Infrastructure / Instrumentation In order to meet the requirements of regulations, it has been decided to procure systems and other accessories as per the requirement.

Research and Development

Research and Development cell is formed with a convener and co-conveners. This cell requested research proposals from staff and students and scrutinize them with help of external researchers. The staff members who have submitted quality proposals will get a seed amount to execute their project. Students are allowed to get seed amount for their project proposal by including staff members as their guide. After successful implementation of projects, they have been developed into a product if possible and filed for patents. This cell motivates the staff members to involve in research activities by arranging workshops for teaching and non teaching staff. Each staff member is motivated to publish their research work in International Journals with impact factor and also to present their papers in International Conferences organized by IITs and NITs. Best project competition is organized every year by IPC (Innovative Promotion Cell) and best projects were awarded with cash prizes.

Examination and Evaluation

The answer scripts for the internal exams were kept ready by the examination cell. Examination cell has a chief superintendent and additional superintendents for the smooth conduct of internal examinations. Five set of examinations were conducted by covering the entire syllabus. Internal question papers are set according to Bloom's taxonomy. The quality of question paper was examined by the Academic Audit Committee randomly. Answer scripts were evaluated within 3 days and they were handed over to students with appropriate comments. Marks scored by students were updated in the college automation system within a week. Marks scored by students in the internal exams were analyzed and extra coaching classes were arranged for slow learners. Department meeting is conducted to review the marks scored by

the students. Students' performance is also monitored through assignments, Quiz and seminars. For practical exams, one or two model practical examinations are conducted. Examinations were conducted as usual in class rooms for senior students whereas the final centralized internal test and model exam were conducted through online for first year students. Guiding students to apply for photo copy of answer scripts, evaluation of received answer script, apply for revaluation.

Teaching and Learning

Academic Calendar is prepared at the beginning of a semester. Department library in-charges are requested to prepare the required book list and it has to be submitted to librarian before the commencement of the classes. Librarian has to ensure that adequate books are available for each course for each year. Staff members are informed to prepare notes for their subject and submit it to Academic Audit Committee for verification. Each staff member is requested to prepare a Lesson plan for their course and they have to include content beyond syllabus topics in the Lecture schedule. Soft copy of the class notes, Part A questions with answers and Part B questions are prepared by the staff members and forwarded to mail id of students. Each staff member has to maintain an assessment record which includes attendance details of students, syllabus covered as per the lesson plan, marks scored by students in the internal tests etc. The details in the assessment record have to be verified and signed by Head of the Department at the end of every month. Expert talks, workshops were planned by Head of the Departments for required courses to improve the students' performance. During the covid-19 pandemic period from March onwards, staff members handled the theory classes through online platforms such as Zoom, Google Meet and Microsoft teams. Remedial classes, student counseling are being conducted on a routine basis. Student seminars on recent trends and developments in respective subjects have been organized regularly.

Curriculum Development

Our institution is affiliated to Anna University Chennai. We strictly follow

the curriculum prescribed by the Anna University. For each course, staff members are requested to handle one or two content beyond syllabus topics by mentioning them in the lecture schedule. The IQAC ensures quality in Curriculum implementation through regular meetings among the teaching staff and collecting feedback from students.

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

E-governance area	Details
<p>Planning and Development</p>	<p>College maintains its website www.klnce.edu as a source of information to all its stake holders. Students can make use of this website to know their attendance, internal marks etc. Parents can know the progress of their wards through this website. Employers can make use of this site to know the strength of individual departments. Web links can be utilized by girl students to register their grievances online. It also includes NBA Accreditation details of individual departments, ISO certification details, NAAC Accreditation details for the college, Infrastructure etc. Staff details like workload, leave, contributions are available in the web site. Placement cell uses the web site for intimating the campus drives, coaching classes, eligibility criteria, required skills through web links.</p>
<p>Administration</p>	<p>Principal has created several whatsapp groups for smooth functioning of the college. He has created a HOD's whatsapp group and included all head of the departments in this group. He used to send messages regarding meetings, staff and students achievements, on-campus drives etc to all HoDs. Head of the department, in turn, created whatsapp group for their department and has included all staff members in this group. The College makes continuous efforts to go paperless in all its administrative and official work. College automation system also helps to maintain transparency in various activities.</p>
<p>Finance and Accounts</p>	<p>Entire accounts were maintained in our college automation system. Students were allowed to pay their tuition fees using SBI Challans in SBI Branches. Students were allowed to pay their fees</p>

	<p>through online also. Receipts for student tuition fees and other fees are provided from college automation system. All accounts are maintained in the college automation system. Finally auditing statements were prepared.</p>
<p>Student Admission and Support</p>	<p>College automation system has created a username and password for each student. College website supports students to know their attendance and internal marks. SMS is sent to students regarding reopening date, placement classes, coaching classes, internal marks, parents Teachers Meeting intimation etc. Placement cell has created Whatsapp groups with individual department students. Information like On-Campus drives, special coaching classes for each drive, placement tips for that drive are posted in these Whatsapp groups. The teaching faculty has also created Whatsapp groups to post important notes, solved question papers, list of important questions etc to students' community.</p>
<p>Examination</p>	<p>College conducts 5 internal tests per semester. Two exams were conducted as class tests, another two conducted as centralized internal tests and the last one as model exam. Answer scripts were evaluated and marks are fed into automation system within 3 days. For slow learners retest was conducted and marks are re-entered. College also displayed the internal marks on college website for the benefit of students and parents. The final centralized test has been conducted through online platforms for senior students and for first year students second as well third centralized tests have been conducted through online platforms. Online exams are conducted for some of the courses in Google forms by faculty members. Students are motivated to make use of E-Learning tools such as Moodle (Modular Object Oriented Dynamic Learning Environment) for specific courses. Staff members and students are motivated to do online NPTEL courses and to get certifications. This year 100 teaching staff and 81 students got NPTEL certifications during October 2019 and April 2020 Examinations.</p>

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee

of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	R.NaveethKumar	Got certificate in NPTEL course on Digital circuits	Nill	1000
2019	Er.S.Suresh	NPTEL online course on "Welding Metallurgy" July-August 2019	Nill	1100
2019	Dr.S.Ramesh	DRDO sponsored workshop Mini Project Course on Physical Layer Security- Theory to Practice, organized by Department of ECE, Amrita School of Engineering, Coimbatore. (13 to 15 Nov 2019)	Nill	2900
2019	Dr.V.Akilande swari	workshop on R Programming	Nill	2850
2019	Dr.S.Miruna Joe Amali	Kalasalingam Global Conference KGC-2019 "Analysis of Attack Scenarios in Trust Authentication Protocols"	Nill	1000
2019	Mr.S.R.Naresh	Industrial Robot training for collaborative applications	Nill	3000
2019	Dr.P.Loganthu rai	NPTEL Online Certification course on "Electrical Machines-I" (EliteSilver).	Nill	1000

2019	A.Marimuthu	NPTEL-AICTE Faculty Development Programme on "Power System Analysis".(Elite Gold)	Nill	1100
2019	Dr.S.R.Raja	Machine Learning for Computer Vision Applications (9 /12/19-13/12/19) at Mepco Schlenk Engineering College(Autonomous) Sivakasi	Nill	1500
2019	Dr.R.Jeyanthi	Biomedical signal processing: Theory and Practice	Nill	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)
2020	Two days National Level Live Technical Seminar on "Electrical Power Utility Management -2020"	Nill	15/05/2020	16/05/2020	236	Nill
2020	Nill	Workshop on Conservation of Electrical Energy, Safety Importance of Earthings	11/02/2020	11/02/2020	Nill	23
2019	FDP on "Hands on training	Nill	12/07/2019	13/07/2019	9	Nill

	on Digital Signal Processors"					
2020	Seminar on "Gaining insights into the interdisciplinary research: Challenges and Benefits"	Nil	21/05/2020	21/05/2020	54	Nil
2020	Online webinar on "Stress Management Skills"	Nil	05/06/2020	05/06/2020	85	Nil
2020	CSI Event - International online Seminar on Dig Data Engineering and Analytics for Faculty Members of Engineering and Arts Colleges	Nil	25/05/2020	25/05/2020	10	Nil
2019	6 days FDTP on "ME8491-Engineering Metallurgy" jointly sponsored by Anna University, Chennai	Nil	25/11/2019	30/11/2019	24	Nil
2020	Online webinar on "Penmayum Thanimayum"	Nil	15/05/2020	15/05/2020	81	Nil
2020	Online webinar on "Stress Management Skills"	Nil	05/06/2020	05/06/2020	170	Nil
2019	Nil	SOFT			Nil	60

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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
Developing Thinking Abilities Relevant for Engineering Education	6	28/04/2020	28/04/2020	1
Online "Faculty Development Program (FDP 2.0) on eSim - A Open Source Revolution	1	14/05/2020	16/05/2020	3
Skill development program on E-Bike Retrofitting organized by Imperial society of Innovative Engineers (ISIE INDIA) At Dr.Mahalinhgam college of Engineering and Technology, pollachi.	1	09/12/2019	12/12/2019	4
Series of online lectures in "Solid State Physics-Series 1: Electrons in Solids", Department of Theoretical Physics, University of Madras, Chennai.	1	26/05/2020	30/05/2020	5
Five days online workshop on Mathematical sciences for CS	2	11/05/2020	15/05/2020	5

IR-NET/SET/GATE at Sree Narayana guru college, K.G. Chavadi, Coimbatore				
5 Day Online FDP "Artificial Intelligence" organized by Department of Computer Science and Engineering, PVKK Institute of Technology in collaboration with NYCI BRAINOVISION Solutions (Ind) Pvt. Ltd.	1	22/05/2020	26/05/2020	5
FDP-Python Programming	2	26/08/2019	30/08/2019	5
One week online Faculty Development on "Moodle - Learning Management System(Online)"	2	04/05/2020	09/05/2020	6
Government of Tamilnadu, Department of Industries and Commerce DIC Sponsored 3 days Training/S eminar Programme on "Energy Audit and Energy Management".	5	27/02/2020	29/02/2020	3
FDP on Novel Materials and its industrial applications at Karpagam College of Engineering, Coimbatore	4	13/05/2020	18/05/2020	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching
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Permanent	Full Time	Permanent	Full Time
172	172	112	112

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>? Financial assistance of Rs.3,000/- for the faculty members of KLNCE for enhancing their knowledge in the form of attending FDP / Seminar / Workshop / Conference. ? Registration Fee for NPTEL Courses are provided to the faculty members ? Group Accident Policy - sum Insured Rs.10.0 Lakhs - Bajaj Allianz General Insurance Company Limited ? Group Mediclaim Policy - sum Insured Rs.2.0 Lakhs - Bajaj Allianz General Insurance Company Limited ? Maternity Leave of 2 Months with salary for Ladies Staff ? Long Service Certificate Gift - More than 10 Yrs. Continuous service in KLNCE. Staff Incentives: For producing 100 results For Guiding Ph.D Scholars</p>	<p>? Group Accident Policy - sum Insured Rs.10.0 Lakhs - Bajaj Allianz General Insurance Company Limited ? Group Mediclaim Policy - sum Insured Rs.2.0 Lakhs - Bajaj Allianz General Insurance Company Limited ? Interest Free Loan for Marriage, Medical Expenses Children Education ? Maternity Leave of 2 Months with salary for Ladies Staff ? Long Service Certificate Gift - More than 10 Yrs. Continuous service in KLNCE ? Free Uniform given to Driver, Conductor, Sweeper, Scavenger, Watchman.</p>	<p>Accident Death Insurance Policy for UG and PG Students. Special Camps for Eye and Dental Checkup. Health Care Centre - Free Medical Checkup for I Year Students and Health Care Centre - Free Medical Facilities to All Students. Student Incentives: Tuition Fee waiver for Sports achiever. Incentive for Innovative Projects. Incentives to Toppers Meritorious Students. Best Project Award. Best Performer Award (year wise). Best Outgoing Students Award.</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 financial statements like income, expenditure, balance sheet and summary of significant accounting policies with other information are prepared by the internal staff in account section of our College, audited by senior manager with the applicable accounting standards. Further, they also follow the design, implementation and maintenance of internal control of the financial statements. Internal staff in the account section prepares the consolidated budget estimate submitted by the HOD of various departments and sections for the ensuing year to analyze the budget estimate by the Principal. The analyzed budget estimate is submitted to the Management for approval to the ensuing financial year. The Principal informs the interim budget estimate to all HOD and section heads for the ensuing year. The Chartered Accountant appointed by the K.L.N. Sourashtra College of Engineering Council audits the financial statements like income, expenditure, balance sheet and summary of significant accounting policies and other information for each financial year submitted by the Management of the Engineering College.

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
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No Data Entered/Not Applicable !!!

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6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	The certification Body of TUV SUD - South Asia Private Limited	Yes	Head of the Institution
Administrative	Yes	The certification Body of TUV SUD - South Asia Private Limited	Yes	Head of the Institution

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

Parents Teachers Meeting was conducted on 06.09.2019 for Parents of Senior Students and 24.11.2019 for Parents of First Year Students during Odd Semester. Again it was conducted on 08.02.2020 for Parents of Senior Students and 14.03.2020 for Parents of First Year Students during Even Semester.

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

Workshop on "Conservation of Electrical Energy, safety and Importance of Earthings" organized by IEEE students chapter of EEE department on 11.02.2020. Totally 23 participants have participated. Workshop on "Stress Management" organized by MBA department on 18.07.2019. MBA department organized a workshop titled "Time Management" on 19.09.2019.

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

? ISO 9001:2015 certification visit on 05.11.2019 and 06.11.2019 ?
Participation in NIRF: Submission Date - 27.11.2019

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Distribution of Rice Pack , Wheat, Dhal Pulsus	16/05/2020	16/05/2020	16/05/2020	140

	during Covid-19 Pandemic (In Association with UBA). Chief Guest : Er. K.N.K. Karthik, President , KLNCE				
2020	Face Mask Distribution to the Public during Pandemic (In Association with UBA)	06/05/2020	06/05/2020	06/05/2020	200
2020	A session on "Hydroponic - Growing Plants without Soil" - A New Framing Strategy for Green Environment	08/02/2020	08/02/2020	08/02/2020	40
2020	Enhancing quality through Autonomous - Resource Persons were Dr. S. Shanmugavel, Director , National Engineering College, Kovilpatti Dr. K. Manisekar, HOD/Mechanical, National Engineering College, Kovilpatti	23/01/2020	23/01/2020	23/01/2020	55
2019	A Special Motivational Talk on Challenges in Digital Era by Mr. S. Satheese,	16/09/2019	16/09/2019	16/09/2019	80

Director,
Relationship
Foundation,
Trissur.

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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
Awareness Programme on 'Healthy Behaviours in Adolescence'	15/02/2020	15/02/2020	24	24
International Women's Day Celebration	07/03/2020	07/03/2020	56	Nil
Webinar on "Penmaiyum Thanimayum"	15/05/2020	15/05/2020	50	28

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
<p>1.Awareness programme on Energy saving on 13.08.2019 2. Signature Campaign on "BAN PLASTICS" for NSS Day Celebration on 24.09.2019 with 5 Boys and 3 Girls 3.Tree Plantation at Gomathi Middle School with 87 Students on 15.10.2019 4. Awareness about plantation and maintenance on 09.01.2020 with 48 students 5. Workshop on Renewable Energy, Conservation of Electrical Energy Safety" on 30.01.2020 for 64 government school students 6.Workshop on Conservation of Electrical Energy, Safety Importance of Earthings on 11.02.2020 for 23 non teaching staff 7.Traffic Awareness Programme Competitions (Slogan Writing Poster making) on 04.03.20 with 25 students and 10 volunteers 8.Three Days Awareness Programme about Covid 19 in association with Govt.,Hospital-Poovanthi Meenakshi Mission Hospital between 10.03.2020 to 12.03.2020 for around 15 staff and 110 students 9. The Unnat Bharath Abhiyan Cell of KLNCE has distributed mask to Madurai Corporation scavengers, police official, vegetable sellers and public to protect from COVID-19 on 06.05.2020 10. Two days National level Webinar on Electrical Power Utility Management -2020 on 15.05.2020 16.05.2020 with 421 participants which includes industrialists, academicians and students</p> <p>Percentage of power requirement of the College met by the renewable energy sources • Power requirement met by renewable energy sources - 15.112 KW • Total power requirement by the institute - 320 KW • About 5 percentage of Power utilization through solar energy</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1

Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	No	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
2019	1	1	06/10/2019	1	Visit Blind School - Sundarajanpatti Donated funds	To promote human values	20
2019	1	1	15/10/2019	1	Yoga and Meditation Programme in Gomathi Middle School	To promote Mental and physical health	51
2019	1	1	19/10/2019	1	Given Neeelavembu Kasayam to Parents (Parents and Students of First year - K.L.N College of Engineering)	To improve immunity	200
2019	1	1	19/10/2019	1	Youth Development Programme	To motivate the students	50

					at Govt.High School, Kanchirankulam	of low educational profile	
2020	1	1	18/01/2020	1	Survey about village peoples. Field work like cleaning the temple, schools and streets. Free Medical Camp for the Village people, Various Personality Development Programmes	To ensure health and cleanliness of people in surrounding village	50
2020	1	1	22/01/2020	1	Quiz Program	Ethical and Managerial skills	60
2020	1	1	24/01/2020	1	Exploring Grammar and Quiz program for school students	Building and Managerial communication skills	40
2020	1	1	27/04/2020	1	Distribution of 700 rice bags of each 5 kgs to nearby villages during the pandemic COVID-19	To promote human values and ethics	25
2020	1	1	15/05/2020	1	Distribution of relief products	To promote human values	50

					during COVID-19 crisis period for people in nearby villages and workers in college	and ethics	
2019	1	1	20/08/2019	1	Dental Camp in association with CSI Hospital - Madurai	To promote dental health	100
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Visit to orphanage home at Kadaichanendhal donated groceries	07/09/2019	Nil
Engineer's day celebration for students from all departments of college	30/09/2019	Nil
Vigilance Awareness - Expert Talk in the theme of "INTEGRITY A WAY OF LIFE" in association with Canara Bank - Madurai for 45 students	02/11/2019	Nil
Visit Old Age Home (My Parents Home) - Nagamalai Pudukkottai (Madurai) with 12 students	12/01/2020	Nil
Blood Donation Camp in association with Government Rajaji Hospital- Madurai with 35 students	07/02/2020	Nil
Automovil -2k20 - A Day of Automobile celebrated with 70 participants	07/02/2020	Nil
Blood donation camp in association with Sivan Blood Bank Meenakshi Mission Hospital - Madurai and collected 167 units	17/02/2020	Nil

Webinar on " Life After the Four Walls " conducted for 74 students	19/05/2020	Nil
Code Of Conduct (College Website)	01/07/2019	Students are adhering to the code of conduct strictly. If any misconduct registered, students are directed to respective mentors and counselled/ enquired suitably. Faculty members are also insisted to adhere to the code of conduct

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Teachers - Life Shapers	15/09/2019	15/09/2019	40
Teachers Day Celebration	19/09/2019	19/09/2019	66
150th Gandhi Jeyanthi Celebration Competitions (Essay Writing , Elocution Drawing)	03/10/2019	03/10/2019	15
Dr.APJ Abdulkalam's Birth Anniversary Celebration	19/10/2019	19/10/2019	50
International Teacher's Day	10/12/2019	10/12/2019	14
Christmas New Year Celebrations in Tamilthai Arakattalai - Sembiyendhal Donated chocolates	23/12/2019	23/12/2019	15
157th Swami Vivekananda Birthday celebration - Expert Talk in the theme of "ONE INDIA, SUCCESSFUL INDIA" in association with Vivekananda Kendra - Madurai	18/01/2020	18/01/2020	44
International Youth Day	25/01/2020	25/01/2020	32
Paper	31/01/2020	31/01/2020	32

Presentation on Women in India			
National Integration Day	01/02/2020	01/02/2020	42
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Paperless office Solar heaters in hostel Sewage treatment plant Solar panel setup Plastic Free campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. KLNCE-HTS Remote Project Mentorship First time in KLNCE, HTS launched remote Project mentorship program at our KLNCE - HTS Sentience lab from July 2018. For this program, Every year 15 students were scrutinized by KLNCE and HTS experts from department of IT, CSE ECE . These students are given problem statements in the areas are latest cutting edge technologies like Natural Language Processing, Data Work Flow, Chat Bot using Machine Language Image Processing. All the problem statements are real time projects from HTS, these projects enable the student to get exposed into the industry related usecases. HTS and KLNCE mentors for their sincere and continuous guidance to our students to find solution and solve the problems in effective way. HTS mentors to support and clarify the doubts through online as well as scheduled reviews in HTS and KLNCE venues. As outcome of this program both student and faculty mentors exposed and gain the following benefits. ? Industry Exposure - Student Staff ? Industrial Related Problems ? Frequent Interaction with HTS experts ? Internships to the students ? Opportunity to work on cutting edge technologies From the institute point of view we observed that, there are lot of transformation happened in our student interns of technical and personal attitude, now these students are good / improvement in the following skills. ? Design thinking ability ? Approach to the problems. ? Problem Solving skills ? Continuous and lifelong learning ? Exposed in cutting edge technology ? Confidence building

2. RESEARCH PROMOTION THROUGH QCARD (Quality Circle- Advanced Research and Development) The other best practice followed in K.L.N.C.E is inculcating research culture among staff and students through QC-ARD. Objective: QC-ARD of KLNCE aims to create and develop innovative research among community of academicians which in turn to give frontline practice to student's community in the arena of research. KLNCE believes that acquiring research practices and bringing out new cutting edge technologies among academicians improves the student betterment towards research. QC-ARD as a best practice emphasizes and set goals for faculty members by enabling them to discover new ideas which ultimately brand them as a knowledge contributor. Context: KLNCE is situated in a remote area from town and thus it is indeed necessary to provide research infrastructure for both faculty members and students within the college environment. It is need of the day to compete with competitive research world and thus QC-ARD motivates faculty members to develop innovative projects with the help of seed funding sponsored by management of KLNCE. Proactive faculty members of the institution get involved and acquire knowledge on research from quality research programs organized by QC-ARD. QC-ARD act as a stepping stone for young researchers to face outside world with state-of-the-art knowledge. The practice: The convener of QC-ARD convenes frequent meetings among members to convey research oriented activities such as project proposals, quality publications and workshops. QC-ARD as a research forum motivates domain experts within the college to deliver their area of focus among faculty members which may be an initiative for multidisciplinary projects. To make faculty members to get familiar with research funding, Project scrutiny meeting will be conducted to provide seed

fund from management. The practice of submitting proposals in a prescribed format and completion report is cultivated among faculty members. Patent filing of innovative ideas are also educated to all. The best practices of QC-QRD are,

1. Seed funding for internal faculty members.
2. Motivating faculty members for preparing proposals for sponsored research from industries/Govt. /Research Agencies.
3. Conducting Seminars/Workshops/Faculty Development Programs in advanced research topics.
4. Enabling faculty members towards quality publications in international journals and patent filing of innovative ideas.
5. Providing incentives to faculty members who published papers in reputed journals.
6. Motivating faculty members to act as reviewers in reputed journals.

Evidence of Success: This forum has conspicuous outcome in developing research culture in education environment. Research proposal writing and its number have been increased among faculty members from inception. Seed funding helps faculty members to come out with innovative ideas and place as stepping stone to develop prototype. The developed prototype is shown as proof of concept for submitting project proposals to external funding agencies. Faculty members use the proof of concept for filing patents. Many of the faculty members improved their quality publications in various international journals. Research supervisors of KLNCE Research Centre motivate their research scholars for quality publication in reputed journals. Among various project proposals submitted, 5 innovative ideas were scrutinized by a panel of members and an amount of Rs.3.269 Lakhs has been sanctioned as SEED fund to develop the models by the Management. The selected projects are in the field of Promoting Agriculture, Communication Medical field with latest technological applications.

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

<https://www.klnce.edu/NAAC/BestPractices.aspx>

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

INDUSTRY INSTITUTE PARTNERSHIP CELL (IIPC) ? The Industry Institute Partnership Cell (IIPC) has been established under in grant aid Scheme of All India Council for Technical Education (AICTE), New Delhi during 2013. ? The objective of the Industry Institute Partnership Cell is to reduce the gap between Industry expectations (practice) and Academic offerings (Theory) by direct involvement of industry to attain a symbiosis. ? Core team members are appointed in this cell to periodically monitor and review the activities carried out by the cell. ? The industry experts are periodically invited and share their updated industrial new innovation technologies to the students and faculty of our institute. ? The Industry Institute Partnership Cell signed Memorandum of Understanding (MoU) with industries and industry associations to promote the industrial culture inside the institute. ? The Industry Institute Partnership Cell (IIPC) endorse the Industrial Consultancy activities among the faculty members and to solve give the solution to industrial problems. ? The faculty members of our institute have a rich industrial consultancy experience in the field of Power Quality, Industrial Harmonic Audit, Energy Audit, Energy Conservation, Internet of Things (IoT) and Industrial Automation. ? Through the Industrial Consultancy activities Industry Institute Partnership Cell (IIPC) have many numbers of both public and private industrial clients such as Power, Textiles, Sugar, Steel, Communication, Cement, Rubber, Oil, IT sector, Food Industry and Hospital. ? Based on the progressive growth of Industry Institute Partnership Cell (IIPC) and its functioning structure the IIP Cell bagged the awards from SEED, Chennai as Best Industry Institute Partnership Cell (IIPC) and Best IIPC Chief Co-ordinator awards during 2015-16 respectively. ? More

number of students and faculty get benefited after establishment of Industry Institute Partnership Cell (IIPC) at the Institute. IIPC ACTIVITIES FOR ACADEMIC YEAR 2019-20 IIPC organized various events during the academic year of 2019-2020 for the benefit of students and faculty of KLNCE, 62 industrial experts are invited to deliver their expertise as an expert talk on various engineering related topics for the benefits of students. 24 Industrial visits have been arranged to improve the industrial knowledge to the students. More than 110 students had undergone in-plant training in various industries in and around Madurai for improving their technical skills. Internship opportunities have been grabbed by 12 final year students in this academic year. IIPC organized 38 competency development program and 3 personality development program has been organized to improve the interpersonal skills of the students. 112 industrial related academic projects were completed by final year students. For the research and development area, 1 project proposal had been submitted to the funding agency and 1 DST funded project has been obtained. 25 programs had been arranged to transfer our college faculties technical knowledge to the industrial experts to meet out their needs, also 12 faculty members got trained in various industries to update their current trends. 20 industrial consultancy works had been carried out by our faculties. 5 provisional patents have been filed. 1 new lab had been established.

Provide the weblink of the institution

<https://www.klnce.edu/IIPC/IIPC.asp>

8.Future Plans of Actions for Next Academic Year

1. Quality assurance program ISO 9001:2015 will be continued for next academic year 2. To enhance the industry institute interactions activities in line with the department. By submitting the details to AICTE-CII survey through IIPC of the institution, good ranking needs to be bagged. 3. Students will be motivated to participate in national and international level activities like smart India hackathons, ICTACT Learnathon 2020. 4. Students need to be motivated to get National / International Certifications 5. NPTEL course registration and completion is a regular activity and hence faculty and students will be motivated to take up professional courses to enhance their skills 6. All the faculty members will be encouraged to create and upload their lectures in digital platform. 7. During the pandemic, the skill enhancement programmes such as Expert talks, seminar / workshop etc will be conducted online .