YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	**K.L.N.COLLEGE OF ENGINEERING**
• Name of the Head of the institution	**Dr.A.V.RAM PRASAD**
• Designation	**PRINCIPAL**
• Does the institution function from its own campus?	**Yes**
• Phone No. of the Principal	**04522090184**
• Alternate phone No.	**04522090971**
• Mobile No. (Principal)	**9940125238**
• Registered e-mail ID (Principal)	**principal@klnce.edu**

• Address	**Madurai-Nedunkulam Road ,Pottapalayam-630612 ,Sivagangai District**
• City/Town	**POTTAPALAYAM**
• State/UT	**Tamil Nadu**
• Pin Code	**630612**
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	**09/12/2019**
• Type of Institution	**Co-education**
• Location	**Rural**
• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr.D.Pradeep kannan**
• Phone No.	**04522090971**
• Mobile No:	**9894770741**
• IQAC e-mail ID	**iqac@klnce.edu**
3.Website address (Web link of the AQAR (Previous Academic Year)	**http://www.klnce.edu/General/IQAC.aspx**
4.Was the Academic Calendar prepared for that year?	**Yes**

- if yes, whether it is uploaded in the Institutional website Web link:

https://www.klnce.edu/download /2019%20-%202020/AcademicCalendar_even.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B++**	**2.8**	**2018**	**30/11/2018**	**29/11/2023**

6.Date of Establishment of IQAC | **15/02/2017**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department /Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Dr.M.R.Thansekhar, Prof/MECH	**AICTE -STTP (On line)**	**AICTE, Newdelhi**	**12/12/2019**	**3,00,000**
Dr.K.Gnanambal, Prof/EEE	**ATAL-FDP (On line)**	**AICTE, Newdelhi**	**16/09/2020**	**93,000**
Dr.S.Venkatesan, Prof//EEE	**AICTE-Two weeks FDP (On line)**	**AICTE, Newdelhi**	**30/07/2020**	**3,96,592**
Dr.P.Udhayakumar, Prof & Head /Mech	**ATAL-FDP (On line)**	**AICTE, Newdelhi**	**16/11/2020**	**93,000**
Dr. R. Alageswaran, Prof/IT	**AICTE -STTP (On line)**	**AICTE, Newdelhi**	**10/08/2020**	**3,09,667**
Dr.M.R.Ilango, Prof/MCA	**AICTE -STTP (On line)**	**AICTE, Newdelhi**	**10/08/2020**	**3,21,667**
Dr.K.Gnanambal, Prof/EEE	**ATAL-FDP (On line)**	**AICTE, Newdelhi**	**17/09/2021**	**93,000**
PI :Dr.S.Parathasarathy,Prof/EEE Co-PI'S: Dr.A.V.Ramprasad	**Technology Development**	**DST (Techology**	**26/07/2021**	**14,00,000**

Mr.S.Nallathambi Dr.M.Ragini	and Transfer	Development & Transfer		
Dr.S.Parathasarathy,Prof/EEE	S&T Capacity building for industrial needs	TNSCST, Tamilnadu	27/12/2021	1,40,000
Dr.S.Suresh Raja,Prof/MCA	UBA	IIT Delhi	25/04/2021	1,75,000
Dr.R.Mohan Kumar,ASP/ECE	MODROB	AICTE, Newdelhi	20/07/2020	12,10,686
Dr.P.R.Vijayalakshmi,Prof & Head /CSE	AICTE-ISTE Refresher program	AICTE- ISTE, Newdelhi	03/03/2021	93,000

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI	**View File**

9.No. of IQAC meetings held during the year	6
- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes
- If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded

10.Did IQAC receive funding from any funding agency to support its activities during the year?	No
- If yes, mention the amount	

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

Encouraged the faculty members to apply research proposals for funding from external Funding agencies
Encouraged faculty and students to write NPTEL exam organized by SWAYAM, New Delhi
Provided thrust on adequate faculty development through Capacity Development Programmes for capacity building of faculties
Establishment of COE cell in KLNCE
Provided Microsoft Teams and google meet to all departments for conducting online classes
Establishment of Quality circle-Industrial Relations

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
QC-QE 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.	Academic Audit Committee(AAC) conducted Class sitting and ensured the use of ICT by Faculty members. Also faculty members use moodle or Google forms for their courses
Bridge course should be organized	Bridge course was organized for First Year and Second year lateral entry students
International Certifications can be organized for the students	International on line Certifications through coursera certification program.
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.
Members of UBA and NSS have to organize the events at regular interval	UBA have adopted five nearby villages and organize various services during the pandemic period such as awareness campaign on vaccination, distribution of mask and gloves and groceries to the villagers, Nss have conduct mega vaccination camp at our campus

for student, faculty and villagers

13.Was the AQAR placed before the statutory body?	**Yes**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Governing Council	**27/12/2021**

14.Was the institutional data submitted to AISHE ?	**Yes**

- Year

Year	Date of Submission
07/01/2017	**07/01/2017**

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	**13**
File Description	**Documents**
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	**455**

File Description	Documents
Institutional data in Prescribed format	View File

2.2

Number of outgoing / final year students during the year:

638

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

Number of students who appeared for the examinations conducted by the institution during the year:

1832

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

Number of courses in all programmes during the year:

13

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

Number of full-time teachers during the year:

197

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3 Number of sanctioned posts for the year:	6
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	411
4.2 Total number of Classrooms and Seminar halls	75
4.3 Total number of computers on campus for academic purposes	1741
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	101.18

Part B
CURRICULAR ASPECTS
1.1 - Curriculum Design and Development
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.
The Institute has the systematic procedure for development, revision and implementation of curriculum of all the departments. The curriculum of all programmes is developed in accordance with Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSOs) and Programme Outcomes (POs). Curriculum is designed to focus mainly on introducing new courses with multiple facts for improving the core competency and technical knowledge. **The process of developing the curriculum is discussed in Department Advisory Committee (DAC) and the course content isframed based on the feedback received from stakeholders and**

ensures that it has relevance to local, national and global developmental needs with all necessary fundamentals.The proposed curriculum is put forth to Board of Studies (BOS) comprising the Head of the Department as Chairman, experts from industry, external subject expertsand faculty members. After deliberations the syllabus is approved and subsequently brought to the Academic Council for final approval.

The students are motivated to upgrade their knowledge by undergoing online courses through NPTEL, IIT Spoken Tutorials. In addition to the curriculum, Soft skills and general aptitude training is provided to the students. Further student's skills are upgraded by conducting value added courses through various cells, Industry Internship programs and thereby become industry ready.

File Description	Documents
Upload additional information, if any	**View File**
Link for additional information	**https://klnce.edu/Departments/UG/Eee.aspx**

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

13

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	**View File**
Details of syllabus revision during the year	**View File**
Any additional information	**View File**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

884

File Description	Documents
Curriculum / Syllabus of such courses	**View File**
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	**View File**
MoUs with relevant organizations for these courses, if any	**View File**

Any additional information	**View File**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

499

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	**View File**
Any additional information	**View File**
Institutional data in prescribed format (Data Template)	**View File**

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

13

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	**View File**
Any additional information	**View File**
List of Add on /Certificate programs (Data Template)	**View File**

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum by means of the following measures: (i) Introducing courses like Universal Human Values, Constitution of India as per the guidelines of AICTE-model curriculum (ii) Including courses in the field of Environment and Sustainability, and Professional Ethics under elective courses

In addition to the curriculum design, our institution addresses the issues like Gender discrimination, Women Safety, Ragging with the help of Non-Statutory committees namely Prevention of Sexual Harassment Cell (POSH), Women Empowerment Cell (WEC), Grievances

redressalCell (GRC), and Anti-Ragging Cell. Also, our institution has a separate committee called Student Welfare committee to address the personal issues. These cells are conducting awareness courses periodically by inviting suitable speakers

Professional EthicsAudit Course, Research Methodology

In order to integrate the cross cutting issues relevant to gender, environment and sustainability, human values and professional ethics, The College has imbibed different types of courses in the curriculum, some enhance professional competencies while others aim to inculcate general competencies like social values, human values, environment sensitivity etc., thereby leading to the holistic development of students.

The courses on Ethics, Human Values, Human Resources & Organizational Behaviour through NSS and NCC, Environmental Studies are embedded in the curriculum of all programmes.

Gender Sensitivities

Prevention of sexual harassment (POSH)cell with Internal Complaints Committee (ICC) was constituted and has been functioning in formal sense since 2015.Apart KLNCE have constituted Women Empowerment cell (WEC), Grievances Redressal cell (GRC).The entire cell aims to enable lady faculty and girl students to explore their imminent potential in all aspects, providing a congenial working environment for them. Many programmes related such as Gender Sensitization and discrimination, awareness on legal rights for women, awareness on Sexual Harassment at Work Place were conducted in last five years.

Human Values and Professional Ethics

A course of one credit on human values "Professional Ethics and Human Values" is offered as Subject / open elective to all the students to take at least once during the programme of study. In view of Social development activities like working in NGOs, organizing blood donation camps, health check-up camps, hygiene and health workshops, environment awareness camps, river cleanliness drive, workshops on social issues, public health etc were organized under NSS,YRC.

As an integral part of student engagement in social activities during their programme of study, college also mandates all the students to enroll as NSS/NCC Volunteers. It aims at inculcating values, ethics and socially responsible qualities. Students organize street plays, awareness campaigns, debates etc. Human values activities by students are being

conducted since inception.

Environment and Sustainability

A course of 3-4 credits is included in all UG programmes. In order to sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures, industry visits and field excursions were organized for students of all programmes. Environment Day, Earth Day, Water Day are celebrated every year, where students actively participate. Workshops and seminars on various aspects of environment sustainability are organized periodically.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	**View File**
Any additional information	**View File**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

542

File Description	Documents
List of value-added courses	**View File**
Brochure or any other document relating to value-added courses	**View File**
Any additional information	**View File**

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

3152

File Description	Documents
List of students enrolled	**View File**
Any additional information	**View File**

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

778

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	**View File**
Any additional information	**View File**

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	**https://klnce.edu/Academics /CurriculumFeedback.aspx**
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**View File**
Any additional information	**View File**

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	**https://www.klnce.edu/download/2020%20-%202021 /college_facility.html**
Any additional information	**View File**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

455

File Description	Documents
Any additional information	**View File**
Institutional data in prescribed format	**View File**

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

145

File Description	Documents
Any additional information	**View File**
Number of seats filled against seats reserved (Data Template)	**View File**

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Students Induction Programme (SIP) has been conducted, every year for the fresher's, as per the guidelines of AICTE. College level and department level soft skill programmes are scheduled to motivate the students to participate in the various events. Regulation, examination pattern, year wise training programme, curricular and co-curricular activities are informed so as to prepare them for engineering outcomes. Counseling given for coming from different back round (rural/urban), difficulty, if any, with respect to medium of instruction. This two week program, conducted, before the commencement of regular classes, encourages them to understand the new environment and eliminate the fear, if any.

Students were well informed in advance about the class test (which will be conducted once in 15 days- Unit test.) and centralized internal test (which will be conducted once in 30 days).

The students of both the categories namely slow and advance learners are identified on the basis of their percentage, classroom performance, regularity in submission of class works and assignments, punctuality and personal interactions. The college pays equal attention

to both the slow and advanced learners. Student Counselors, Class coordinators, Academic mentors and Academic tutors are appointed for every class to take special care to monitor, guide and help the slow learners for the improvement of the studies. The institution also conducts remedial classes for average and below average students to increase their skills and competence Additional classes are conducted for the slow learners so as to clarify their doubts to make them to prepare well for the forth coming test. They were counseled regularly to improve their confidence level and fear of failure. Class co-ordinators and student counselors, will regularly interact with them to improve their level of understanding.

Advanced learners were asked to register in NPTEL courses, guided by a faculty, so as to improve their skills in order to make them to be successful in GATE, State level examinations for higher studies/ placements.

Advanced learners were also engaged to participate in online examinations, webinar, value added courses, Smart India Hackathon contest, project competition, paper publication in national conferences etc.

As an assessment of student's learning ability, internal tests are carried out for each course in every semester. An excellent Feedback system is implemented to sustain the quality of education.

Programs for Advanced Learners :

AICTE sponsored Industry Institute Partnership Cell [IIPC] of KLNCE supports and sponsors students to undergo industrial visit and to have interaction with industry experts at our venue through seminars, workshops & short term training programs. Project based learning is another salient feature for group learning process.

The Innovative Promotion Cell (IPC), Institution Innovation Council (IIC) of KLNCE aids project based learning system. Students work on a host of projects in different courses as well as across courses. Every year state level project contest is conducted by IPC in which our students are motivated to participate. The innovative ideas of the students are encouraged by inviting project proposals. Based on the presentation of the innovative ideas, the projects are funded by IPC. Internship and project-based courses are part of different curricula. These courses are supervised and students are given sufficient support by faculty to apply their learning and learn from real life situations. The

projects which are selected as best are motivated to go for product development.

The Continuing Education Cell (CEC) of KLNCE motivates the students to undergo higher studies by organizing the awareness programme about GRE, ToEFL, GATE, CAT, Study of Foreign Languages like French, Japanese etc.

In order to sustain our institute to the National level standard, College has well defined Quality Circles called Quality Education, Potential Employability and Advanced Research & Development Cell.

Industry supported laboratories help the students to implement their innovative ideas. The products will be helpful to the Industries.

Assignments at higher levels are assigned to these students to promote their skill.

Programs for Slow Learners :

Special coaching classes like remedial classes, Tutorial coaching are arranged for slow learners.

Retests are conducted for the students who failed in Internal tests.

Senior faculty at Professor level is assigned to consolidate the list of students with arrears in lower semester for second, third and final year UG programs. The faculty coordinator will arrange special coaching /tutorial classes for the arrear students to improve the performance in the ensuing end semester examination and thus the higher percentage of graduation.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/NAAC/Criteria_2.aspx**

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/12/2021	1832	197

File Description	Documents
Upload any additional information	**[View File](#)**

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Our college focuses on student centric methodology of learning based on experimental learning, participative learning and problem solving methodologies.

Experimental learning:

Experimental learning is carried out by providing hands-on training to students in laboratory sessions. Students are motivated to do mini project and to attend State & National level project contest. Final year students are encouraged to do in-house and Industrial projects based on high impact journal papers and they are motivated to present their paper in National or International conference.

Participative learning:

The participative learning is implemented by collaboration / group in our college. Academic schedule of each department enforces all faculties to provide self -study topics, exclusive tutorial sessions, seminar presentation and group discussion as mandatory learning methodology.

Students are motivated towards paper presentation by two or three students to various symposiums, National and International Conferences. Innovation Promotion Cell & Industry Institute Partnership Cell in our college conduct contest in Mini projects and provides fund for student projects.

Students work in group for student chapters of CSI, IETE, ISTE, IEEE, IEI, ISHRAE, YUVA-Yi towards conduct of technical/management program. Special Interest Group (SIG) of students based on their subject interest is providing their knowledge and skill to their peers. This will yield better learning outcomes.

IIT — Bombay Spoken Tutorial online courses are offered to students to enrich participative learning.

Problem solving methodology:

Additional learning methodologies such as brain-storming sessions are arranged for students during ICTACT courses and Hackathon contest. This enables the students to solve real time case studies, develop projects. Their learning ability is evaluated through online exams and certificates are provided.

File Description	Documents
Upload any additional information	**[View File](#)**
Link for additional Information	**https://www.klnce.edu/IIPC/IDCA/IDCAMasterSummary.aspx**

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

ICT tools and resources: Computers with Internet, LCD Projector , NPTEL, Google form, Moodle, Globarina software - Language Lab, NISM online stock market course, Learn Biz

LMS : Google classroom, MS Team & Zoom platforms are used for Teaching Learning process.

Academic Calendar uploaded in college website.

Students academic performance available in students Login.

Learning materials such as Monograph, laboratory manuals, Question bank, NPTEL Content are available in the College website.

E-Learning resources : E-Journals such as IEEE, ASME, J-GATE can be accessed within the college campus by Students and Faculty.

Online test facility for competency development is practiced for the student benefit.

During lockdown period, due to corona pandemic, online classes were conducted from March 2020 to April 2021,these includes, Online-Lecture classes, internal tests, Virtual tour, end semester examination, project competition, conference etc.

File Description	Documents

Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	**http://112.133.193.252/course/view.php?id=58**
Upload any additional information	**View File**

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

93

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	**View File**
Circulars with regard to assigning mentors to mentees	**View File**

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

- **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.

Academic Calendar -Typical content of Academic Calendar

- Anna University academic schedule-commencement of classes, last working day, end semester examinations, commencement of next semester classes.
- Orientation programme for first year UG & PG students.
- Value added courses (2 weeks before the commencement of classes)
- Student development and training classes (1 week before the commencement of classes)
- Faculty meeting – 1 week before the commencement of classes, 1st week of every month, as and when required – roles and responsibilities – plan of academic activities – staff/students- schedule of administrative committee meeting for NBA/NAAC.
- Course committee meeting
- Programme assessment committee meeting – schedule of content beyond syllabus – plan
- Display of time-table – 2 days before the commencement of classes.
- Commencement of classes – UG and PG courses
- Class Committee meeting – I – (1st week), class committee meeting – II – (2nd month), class committee meeting, as and when required.
- Student counselor meeting – I - (1st week), as and when required.
- IIPC and IDCA review meeting.
- Academic performance evaluation of Faculty.
- Grievance redressal committee meeting
- Project awareness and guidance meeting
- Syllabus completion – unit wise schedule
- Internal test – class test/centralized internal test schedule
- Attendance shortage reviews
- Anti-ragging committee meeting
- Final year B.E/B.Tech/M.E/MBA/MCA project – Guide selection
- Remedial/retest classes
- Parents – Teachers meeting

- **Elective subject finalization**
- **Model practical examinations**
- **Internal test result analysis meeting (during faculty meeting, as and when required)**
- **Anna university examinations result analysis meeting. (during faculty meeting as and when required)**
- **Course Outcome Attainment schedule**
- **Anna University practical examination schedule**
- **Anna university examination fee collection**
- **Feedback – students feedback on faculty, College facility, Laboratory faculty, supporting staff**
- **Management Review meeting**
- **Planning and Development meeting**
- **Programme assessment committee meeting**
- **Last working day for students**
- **Commencement of end semester examinations**
- **Subject allocation meeting.(along with faculty meeting)**
- **Summer/Winter vacation for staff**
- **Reopening day for next semester – staff and students**
- **Public holidays**
- **Technical symposium**
- **National/International conference**
- **Project review schedule**
- **Group photograph of final year students with UG/PG courses**
- **Alumni, employer survey, graduate exit survey schedule**
- **Schedule of Department Advisory Committee (DAC)**
- **Program Co-ordination Committee (PCC)**
- **PAC (Program Assessment Committee (PAC)**
- **College Annual Day, Sports day**

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	**View File**

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

197

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	**View File**
List of the faculty members authenticated by the Head of HEI	**View File**
Any additional information	**View File**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

70

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	**View File**
Any additional information	**View File**

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

703

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	**View File**
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

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

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	**[View File](#)**
Any additional information	**[View File](#)**

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	**No File Uploaded**
Upload any additional information	**[View File](#)**

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

- **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 and submitted to COE as per the schedule, for further process.**

- **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 revaluation and review of answer scripts of end semesterexaminations exist, as per Autonomous norms, i.e., revaluation, review**

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://teams.microsoft.com/l/team /19%3a619e5ec3520a454280a862ccb609b500%40thread.tacv2 /conversations?groupId=4a1df1b2-f85e-416d-940a-1b57b8b36081& tenantId=3cb3c705-b71b-48b1-a3b7-13d46af55ff7**

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Program outcomes (PO's), Program Specific Outcomes (PSOs) and Course

Outcomes (COs) for all the programmes are stated and displayed in department website of the College.

PROGRAM OUTCOMES (POs)

Electrical and Electronics Engineering Graduates will be able to:

PO1: Engineering knowledge:

Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an Engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural sciences, and Engineering sciences.

PO3: Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable

development.

PO8: Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Electrical and Electronics Engineering Graduates will be able to:

PSO1:

Apply the fundamentals of mathematics, science and engineering knowledge to identify, formulate, design and investigate complex engineering problems of electric circuits, analog and digital electronic circuits, electrical machines and power systems.

PSO2:

Apply appropriate techniques and modern Engineering hardware and software tools in power systems to engage in life- long learning and to successfully adapt in multi-disciplinary environments.

PSO3:

Understand the impact of Professional Engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

Course Outcomes for sample courses (EEE) — R-2017

Course Name : C213 (EE8451 & LINEAR INTEGRATED CIRCUITS AND APPLICATIONS) -IV sem B.E.EEE

CO

Course Outcomes

C213.1

Explain the basic planar processes to fabricate the monolithic IC and the fabrication of active and passive components of ICs.

C213.2

Design the basic applications of op-amp and also analyze the characteristics of op-amp.

C213.3

- **the signal analysis using op-amp based circuits like filters, comparators, multivibrators, waveform generators, converters and instrumentation amplifier.**

C213.4

Explain the functional blocks and applications of special IC's like 555 Timer, 565-PLL, IC 566-VCO and AD633-Analog multiplier ICs.

C213.5

Discuss the functional blocks and applications of AD623, LM78XX, LM79XX, LM317, 723, SMPS and ICL8038.

Course Name : C301 (EE8501 & POWER SYSTEM ANALYSIS) -V sem B.E.EEE

CO

Course Outcomes

C301.1

Apply engineering knowledge to evaluate the per unit values and to formulate bus impedance, admittance for the given power system

C301.2

Analyze load flow techniques using Newton-Raphson and Gauss-Seidal methods for the power system networks and interpret the results

C301.3

Analyze the power system network under symmetrical fault condition using Thevenin's theorem and bus impedance matrix

C301.4

Analyze the power system network under unsymmetrical fault condition using symmetrical components

C301.5

Analyze the transient stability of power system using equal area criterion and to apply Runge-Kutta and Eulers method to solve swing equation

Program Outcomes (POs) and Program Specific Outcomes (PSOs) are communicated to the stake holders of the program by the following procedures.

- **POs and PSOs are approved by the Department Advisory Committee**
- **POs and PSOs are available in the Institute website (www.klnce.edu). (http://klnce.edu /Departments/UG/Eee.aspx)**
- **Banners showing POs and PSOs are kept in prominent locations of the campus for staff, students and public view.**
- **Banners showing POs and PSOs are kept in EEE Department office, Laboratories and Department library.**
- **Printed copies of POs and PSOs are pasted in the attendance cum assessment record.**
- **POs and PSOs are communicated to employers and Alumni by sending mail and during the Alumni Meeting.**
- **During the class committee meeting and faculty meeting POs and PSOs are reviewed among the students and staff members.**
- **Vision and Mission of Institute and department are informed to the parents during Parents-Teachers Meeting.**
- **POs and PSOs are given in the laboratory manual. Mission, Department Vision, Mission are printed on the back cover of the laboratory manual issued to the students of B.E. - Electrical and Electronics Engineering.**

Course Outcomes (COs) are framed by conducting course committee meeting. The course committee comprises of the course handlers along with one subject area expert. The course outcomes are elaborately discussed and derived by the course committee members.

Even though the COs are given by the Anna University along with the syllabus, if necessary, the COs are modified and reframed by the course committee members (CC).

COs are communicated to the students during the introduction class itself. COs along with lecture schedule are printed and issued to the students during the first class.

COs are also printed in the lab manual. During the discussion of the course, the outcomes of the course are also focussed. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	**View File**

Upload any additional information	**No File Uploaded**
Link for additional Information	**https://www.klnce.edu/download/2017%20-%202018/EEE/CO_attainment_2017.pdf**

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Framework of attainment of Course Outcomes:

The assessment tools can be divided into two categories

- **Direct Assessment**
- **Indirect Assessment**

The questions for the tools such as internal tests, assignments, course outcome survey etc. are taken, which relate to specific course outcomes in each course. Presentations and seminars are aimed towards widening the scope of the subject including its impact on society and environment as a whole. The questions at the presentations/seminars make the scope even better and relate with the course and program outcomes such as PO6, PO7, PO8, PO10, PO11, PO12 thus the need for continuous independent life-long learning is emphasized.

Procedure for Theory courses attainment calculation:

The internal test, assignment, seminar, quiz, University examination and survey are considered for the course outcome evaluation. The various steps involved are summarized below.

- **Target is set as 55/ 60% for the internal test**
- **Based on percentage of students secured more than the target, attainment level is fixed. 60% and above (attainment level 1-Low), 70% and above (attainment level 2-Medium) and 80% and above (attainment level 3-High).**
- **Similar setting is fixed for assignments / tutorial / seminar / quiz etc.**
- **Similar setting is fixed for grade secured by the students in the University examinations (Attainment Level = 1, if 60% of students secured grade C and above.**

Attainment Level = 2, if 70% of students secured grade C and above.

Attainment Level = 3, if 80% of students secured grade C and above).

- Attainment of each course outcomes of the courses is calculated using the following expression (attainment of C101.1 is done as below), considering internal and external examinations and assessments.
- Attainment of C201.1(Direct) = [0.6 X external examinations + 0.4 X internal

attainment] where

C201.1 (internal attainment) = 0.6 X CIT attainment + 0.1 X assignment attainment +0.1 X seminar attainment + 0.1 X quiz attainment + 0.1 X tutorial attainment.

If no seminar / quiz conducted for the particular course outcomes, then

- Attainment of C201.1(Direct) = [0.6 X external examinations +

0.4 X internal attainment] where

C201.1 (internal attainment) = 0.6 X CIT attainment + 0.1 X assignment attainment +0.1 X seminar attainment + 0.1 X quiz attainment + 0.1 X tutorial attainment.

If no seminar / quiz conducted for the particular course outcomes, then

C201.1 (internal attainment) = 0.6 X CIT attainment + 0.4 X assignment attainment

- Attainment of C201.1 (Indirect) = 3(if the CO survey attainment is

more than 80%)

= 2(if the CO survey attainment is

more than 70%)

= 1(if the CO survey attainment is

more than 60%)

- Attainment of C201.1 (Overall)= 0.8 X Direct attainment + 0.2 X Indirect attainment.
- Similar procedure to be followed for the overall attainment of C201.2, C201.3, C201.4, C201.5.
- Attainment of C201 = Attainment of (C201.1+C201.2+C201.3+C201.4+C201.5) / 5
- Similar procedure to be followed for courses from first year to final year of the program.

Procedure for Practical course attainment calculation:

The Record / Observation marks, Viva mark for each experiments, Model test, University examination and survey are considered for the course outcome evaluation. The various steps involved are summarized below.

- Target is fixed as 80% for model test and Grade "A" (9) for University exam.

Based on percentage of students secured more than target, attainment level is fixed.

- 60% and above (attainment level 1-Low), 70% and above (attainment level 2-Medium) and 80% and above (attainment level 3-High).
- Similar setting is fixed for viva, record / observation etc.
- Attainment Level = 1, if 60% of students secured grade A and above.

Attainment Level = 2, if 70% of students secured grade A and above.

Attainment Level = 3, if 80% of students secured grade A and above.

- Attainment of each course outcomes of the courses is calculated using the following expression (attainment of C216.1 is done as below), considering internal, external examinations and assessments.

60% and above (attainment level 1-Low), 70% and above (attainment level 2-Medium) and 80% and above (attainment level 3-High).

- Similar setting is fixed for viva, record / observation etc.
- Attainment Level = 1, if 60% of students secured grade A and above.

Attainment Level = 2, if 70% of students secured grade A and above.

Attainment Level = 3, if 80% of students secured grade A and above.

- **Attainment of each course outcomes of the courses is calculated using the following expression (attainment of C216.1 is done as below), considering internal, external examinations and assessments.**
- **Attainment of C216.1 (Direct) = [0.6 X external examinations + 0.4 X internal**

attainment] where

C216.1 (internal attainment) = 0.6 X Model test + 0.2 X Viva + 0.2 X record / observation.

- **Attainment of C216.1 (Indirect) = 3(if the CO survey is more than 80%)**

= 2(if the CO survey is more than 70%)

= 1(if the CO survey is more than 60%)

- **Attainment of C216.1 (Overall)= 0.8 X Direct attainment + 0.2 X Indirect**
    - ■
- **Similar procedure to be followed for the overall attainment of C216.2, C216.3, C216.4, C216.5.**
- **Attainment of C216 = Attainment of (C216.1+C216.2+C216.3+C216.4+C216.5) / 5**
- **Similar procedure to be followed for practical courses from first year to final year of the program.**

Procedure for Project attainment calculation:

Presentation in all the three reviews, University viva voce and demonstration are considered for evaluation.

The various steps involved are summarized below.

- **Target is fixed as 90% for review marks and Grade "A" (9) for University exam.**
- **Based on percentage of students secured more than target, attainment level is fixed.**

60% and above (attainment level 1-Low), 70% and above (attainment level 2-Medium) and 80% and above (attainment level 3-High).

- **Attainment Level = 1, if 60% of students secured grade A and above.**

Attainment Level = 2, if 70% of students secured grade A and above.

Attainment Level = 3, if 80% of students secured grade A and above.

- **Attainment of each course outcomes of the courses is calculated using the following expression (attainment of C412.1 is done as below), considering internal, external examinations and assessments.**
- **Attainment of C412.1 = [0.6 X external examinations + 0.4 X internal**

attainment] where

C412.1 (internal attainment) = Review attainment

- **Similar procedure to be followed for the overall attainment of C412.2, C412.3, C412.4, C412.5.**

Attainment of C412 = Attainment of (C412.1+C412.2+C412.3+C412.4+C412.5) / 5

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**https://www.klnce.edu/download/2017%20-%202018 /EEE/CO_attainment_2017.pdf**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

637

File Description	Documents

Upload list of Programmes and number of students appear for and passed in the final year examinations	**View File**
Upload any additional information	**View File**
Paste link for the annual report	**https://www.klnce.edu/download/Annual_report2021.pdf**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.klnce.edu/download/2020%20-%202021/college_facility.html

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institutionhas a well-defined policy for promotion of research which is also uploaded on the institutional website and implemented meticulouslythrough a Quality Circle named Advanced Research and Development (QC-ARD) formed during 2013. The details of the cell are given below,

Advanced Research and Development (ARD)

- **To provide venture capital, technical and administrative support for innovative, multidisciplinary and socio-economic research projects for faculty members**

Objective

- **Seed funding for internal faculty projects**
- **Proposals for sponsored research to industries / Govt. / Research agencies and institutes**
- **Seminar/FDP on advanced research topics**
- **Publication in International Journals**

Roles and Responsibilities

- **Scrutiny of Internal faculty projects for providing seed funding**
- **Review of approved internal faculty projects**
- **Project completion and demonstration**
- **Motivation towards outcomes**
  - **Proposals to government agencies**
  - **Patent filing**
  - **Consultancy**
  - **Paper publications**
- **Monitoring of Ph.D completion and supervisor recognition**
- **Motivating departments to conduct of seminar / FDP on recent advancement in technology, IPR etc.**

Outcome

- **Faculty research projects funded by KLNCE for prototype implementation**
- **Proposal submission to financial agencies**
- **Improved quality paper publications**
- **Faculty supervisor recognition under Anna University, Chennai**
- **Acquiring projects funds from national agencies like, DST, MSME, IEI, ect.**
- **Conduct of Technical events**
- **Patents applied by the faculty members and students**
- **Recognized as the Research center by AU Chennai**

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	**[View File](#)**
Provide URL of policy document on promotion of research uploaded on the website	**[https://www.klnce.edu/QualityCircle /AdvancedResearch.aspx](https://www.klnce.edu/QualityCircle/AdvancedResearch.aspx)**
Any additional information	**[View File](#)**

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

3.27

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	**View File**
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	**View File**
List of teachers receiving grant and details of grant received	**View File**
Any additional information	**View File**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

18

File Description	Documents
e-copies of the award letters of the teachers	**View File**
List of teachers and details of their international fellowship(s)	**View File**
Any additional information	**View File**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

17.15

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	**View File**
List of projects and grant details	**View File**

Any additional information	**View File**

3.2.2 - Number of teachers having research projects during the year

5

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.klnce.edu/IIPC/IIPC.asp**
List of research projects during the year	**View File**

3.2.3 - Number of teachers recognised as research guides

26

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	**View File**
Institutional data in Prescribed format	**View File**

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

5

File Description	Documents
Supporting document from Funding Agencies	**View File**
Paste link to funding agencies' website	**https://dst.gov.in/**
Any additional information	**View File**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Quality Circle – Advanced Research and Development

The Quality Circle – Advanced Research and Development (QC – ARD) of K.L.N. College of Engineering was established during 2013 to cater the research needs of our institution. The main focus of QC – ARD is to provide financial, technical and administrative support for the research activities of faculty members. The main objective of QC – ARD is to inculcate Research, Consultancy and Innovation in the minds of our faculty members and students.

Through QC – ARD, the Management provides financial support in the form of venture capital to the faculty members to expose their innovations in the form of research projects. This scheme further motivates the researchers to forge their research into research proposals to external funding agencies. Innovative, multidisciplinary and socio – economic research projects are encouraged through this scheme. The main focus of the Quality Circle is to motivate research projects, journal publications and sponsored research.

QC – ARD encompasses four major activities within the campus

1. Faculty Research projects – ARD
2. Student research projects – IPC
3. Consultancy activities in collaboration with industry – IIPC
4. Innovative projects – IIC

The roles of QC – ARD includes,

- Recommending Research project proposals by faculty members
- Promoting activities in Innovation Promotion and Entrepreneurship cells
- National and Multinational industrial consultancy
- Academic and Sponsored Research inside the campus
- Development and progress of research culture among the faculty members. They monitor the progress of individual faculty perusing Ph.D. research through participation in Doctoral Committee meetings, half yearly research progress meetings in various departments etc.
- Identify broad areas for research in each department.
- Motivating interdisciplinary research project proposals.

Innovation Promotion Cell (IPC)

Innovation promotion cell of KLNCE was established during September 2014, aiming towards collecting innovative ideas and concepts of societal for fulfilling the needs of the society and there by developing realizable products and services.

Industry Institute Partnership Cell (IIPC)

The objective of the IIP Cell is to bridge the gap between industry expectations (practice) and academic offerings (Theory) by direct involvement of industry to attain a symbiosis.

Institute Innovation Council (IIC)

The main objective of this council is to create a vibrant local innovation ecosystem and start-up supporting mechanism in the institution. They activities of the council includes,

- **Conduct various innovation and entrepreneurship-related activities.**
- **Identify and reward innovations.**
- **Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.**
- **Network with peers and national entrepreneurship development organizations.**
- **Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.**
- **Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.**

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/QualityCircle/AdvancedResearch.aspx**

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

File Description	Documents
Report of the events	**View File**
List of workshops/seminars conducted during the year	**View File**
Any additional information	**View File**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	**View File**
Any additional information	**View File**

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

3

File Description	Documents
URL to the research page on HEI website	**https://www.klnce.edu/QualityCircle/AdvancedResearch.aspx**
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	**View File**
Any additional information	**View File**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

`0.274`

File Description	Documents
List of research papers by title, author, department, and year of publication	**View File**
Any additional information	**View File**

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

`0.193`

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**http://www.isarasolutions.com/book_details?id=179**

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

`85`

File Description	Documents
Any additional information	**View File**
Bibliometrics of the publications during the year	**View File**

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

`19`

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	**View File**

Any additional information	**View File**

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

1.5

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	**No File Uploaded**
List of consultants and revenue generated by them	**View File**
Any additional information	**View File**

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

2

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	**View File**
List of training programmes, teachers and staff trained for undertaking consultancy	**View File**
List of facilities and staff available for undertaking consultancy	**View File**
Any additional information	**No File Uploaded**

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

K.L.N. College of Engineering is the first self financing co – educational Engineering College in Sivagangai District at Madurai Nedunkulam Road, Pottapalayam and 11th KM from Madurai city. Our college is declared as Sourashtra Linguistic Minority College.

The candidates admitted in I year UG & PG programmes is a mixed population from rural, semi urban, urban areas, Tamil/English medium schools under 1st Graduate families, reservation/management categories.

Hence, Orientation program is conducted for the fresh candidates to provide the relevant information available in the Institute for holistic development, character building, Leadership qualities, and communication skills along with academic achievement.

Students, in general, are motivated and sensitized to social issues, Leadership qualities and holistic development by extension activities by the following schemes in the neighbourhood community for medical checkup, blood donation, tree plantation, awareness programmes on drug abuse, women abuse, anti Tobacco, safety, helping old age homes, etc.,

A) National Service Scheme (NSS)

This scheme is regulated by Anna University, Chennai and permitted to function with 2 units of 200 students each having 100 students. The objective of the scheme is to promote extension activities like General Medical Camp including Eye Dental Care, seven days rural camp for the benefit of villagers and Tree plantation.

Two faculties are coordinating these activities with the guidance of the Principal and HODs for personality and character development and to sensitize the social issues.

B) Youth Red Cross (YRC)

It is a constituent of Indian Red Cross (IRC). Two staff co – ordinators with one hundred and fifty student members are doing extension activities related in social concern, Health awareness and emergency help.

These activities are normally carried out during weekends / vacation period and shall be completed during first year of the program. However, for valid reasons, Principal may permit the student members to complete the required days for activities in the second year.

C) Rotract Club:

Our college Rotract Club of Madurai is sponsored by the Rotract Club of Madurai. Students

(around 1500) enroll as members in the college Rotract club of Madurai with the guidance of a staff coordinator. This team organizes extension activities in association with Rotract club of Madurai aiming at the Holistic development with leadership qualities through educational seminar, quiz programmes and constructive activities for the benefit of the society.

D) Extension activities promoted by the Department.

All departments are assigned to carry out extension activities towards corporate social responsibility (CSR) with the staff coordinatiors and students. The activities include programmes like Road safety, conservation of electrical energy and safety to villagers, donation to poor students at school, quiz and awareness on higher education to plus two students.

The impact of such extension activities moulds the students with holistic development, Leadership qualities, involvement in social concerns on completion of their programme.

E) Unnat Bharat Abhiyan (UBA)

It is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. Each selected institution would adopt a cluster of villages and gradually expand the outreach over a period of time. Our institution has adopted 5 villages in the surrounding area and has carried out developmental activities.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/Amenities/NSS.aspx**

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

50

File Description	Documents
Number of awards for extension activities in during the year	**View File**

e-copy of the award letters	**View File**
Any additional information	**No File Uploaded**

3.6.3 – Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

13

File Description	Documents
Reports of the events organized	**View File**
Any additional information	**View File**

3.6.4 – Number of students participating in extension activities listed in 3.6.3 during the year

2123

File Description	Documents
Reports of the events	**View File**
Any additional information	**View File**

3.7 – Collaboration

3.7.1 – Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

155

File Description	Documents
Copies of documents highlighting collaboration	**View File**
Any additional information	**View File**

3.7.2 – Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

8

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	**[View File](#)**
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	**[View File](#)**
Any additional information	**[View File](#)**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

"Educationmust provide the opportunities for self-fulfillment; it can at best provide a rich and challenging environment for the individual to explore, in his own way"

To explore an institution of technical excellence, in his / her own way and to face the challenging technological environment, our founder president Thiru.K.L.N.Krishnan started an Engineering college in the name of K.L.N.College of Engineering. This college is mainly established for the betterment of the down trodden people of SivagangaiDistrict.Which is an economically backward district in TamilNadu.

This college is the first self-financing Co-educational Engineering College in Sivagangai, situated on the South Eastern outskirts of Madurai, 11th Km on Madurai – Nedungulam Road. It is built in an area of 53.8 acres.

As per the norms of AICTE, NewDelhi and Anna University, Chennai, the institute has adequate facilities for teaching-learning process. The Campus has multistoried buildings consisting of well-furnished class rooms, drawing halls, seminar halls, conferencehall, library, Air-Conditioned Computer centers, staff rooms and student rest rooms. The infrastructure also consists of five double storeyed buildings accommodating laboratories, workshops of various academic curricula and engineering disciplined.

Totally 50,247 sq.meter of buildings have been constructed for effective teaching learning

process. The management is conscious of updating every need to increase the infrastructure.

In order to facilitate the easy accessibility for the students, 1741 numbers of computers have been installed so far. This shows the management's conviction in providing essential infrastructure for the Hands on Training to the students in our college.

Total expenditure incurred so far towards the cost of assets (equipment's, buildings &Furnitures) is about Rs.34.8 crores.

File Description	Documents
Upload any additional information	**[View File](#)**
Paste link for additional information	**https://www.klnce.edu/AboutUs/BriefHistory.aspx**

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

"A Sound Body Keeps, A Sound Mind"

KLNCE's ultimate aim is to bring the harmonious development to the students. For this,the college has a very good Football field, Cricket circle, Ball badminton court (2 Nos.), Volleyballcourt (3 Nos.), Indoor Badminton Court (4 Nos.), Concrete Basketball Court (1 No), Tennis court (1 No), Hand Ball court.

A 400 mt. Standard Track, Long jump pit and High jump pit are available. A separate recreation room is available for carrom, chess and table tennis towards indoor games.

Outdoor / Indoor

The college has an Indoor stadium of 2,221 sq. meter for Indoor games like shuttle cock, Table Tennis , Chess, Carom and 10 Station Gym for Boys & 6 Station Gym for Girls. Ten acres of land has been cleaned off and leveled for play grounds and athletic events

This encouraging performance in sports and games by our students is due to the interest shown by the management in providing the required facilities.

Yoga

As a part of character building with education, two departments is conducting yoga and meditation practice classes to the interested students under the guidance of an expert in Transcendental Meditation and Yoga.

Cultural

The Cultural and Literary Association (CLA) is formed for encouraging the Staff and Students in order to develop and extend their Extra Curricular Skills for creating a platform to expose their talents.

The college have separate music club called "K.L.N. Melody Fine Arts Club" by which staff and students can develop their vocal skill and to play musical instruments.

File Description	Documents
Geotagged pictures	**View File**
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/NAAC/Criteria_4.aspx**

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

85

File Description	Documents
Upload any additional information	**View File**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	**View File**

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

24.41

File Description	Documents
Upload audited utilization statements	**View File**
Details of Expenditure, excluding salary, during the years	**View File**

Any additional information	**View File**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

1. **Library automation software which is equipped with fully integrated multi-user software on windows environment, developed and implemented by ISSG (Information System Support Group) of our college. It is user friendly, informative and has the features such as powerful search engine which locates the status and location of the books in the library, displays all available books and the borrower status.**

   - **Number of computers for student access (OPAC) – 02**
   - **Number of printers for student access– 02**
   - **Internet band width/speed – 152 Mbps**
   - **Institutional Repository– Students Project Reports, Anna University Previous Years Question Banks, Faculty Publications (manuscript).**
   - **Content management system for E-learning: NPTEL, NDL (National Digital Library)**
   - **RFID system for book issue, return and to avoid unmarked book issue.**

1. **Nature of Automation– Fully**
2. **Version – 6**
3. **Year of Automation – 2000**

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/Resources/CentralLibrary.aspx**

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	**B. Any 3 of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	**View File**

Upload any additional information	**View File**

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

6.68

File Description	Documents
Audited statements of accounts	**View File**
Any additional information	**View File**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	**View File**

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

21

File Description	Documents
Upload details of library usage by teachers and students	**View File**
Any additional information	**View File**

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

In order to facilitate the easy accessibility for the students and staff, 1741 numbers of computers have been installed so far. This shows the management's conviction in providing essential infrastructure for the Hands on Training to the students in our college.The entire campus is Wi-Fi enabled.

S.No

No of Device

Locations

TOTAL

1

4

Men's Hostel -2 (Final year block, Mess), Pg Block-1,IT WIFI LAB.

4

2

4

Library block-1, EEE block-2, Mech block-1

8

3

5

Men's hostel -2 (Final year block,Mess), PG block -2, IT -1

13

2

EEE block -2

15

5

4

CSE-1,ECE-1, Men's hostel-2 (first year block, final year block)

19

6

2

Auto mobile -1, Mechanical -1

21

7

1

Men's hostel -1

22

8

2

Ladies hostel -2

24

9

7

Office -1, CSE-1, Men's hostel -2 (First block first floor),Ladies Hostel-2, MENS HOSTEL -1

31

10

31

31

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/NAAC/Criteria_4.aspx**

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1832	**1741**

File Description	Documents
Upload any additional information	**View File**

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus — **A. ≥50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	**View File**
Upload any additional information	**View File**

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing — **A. All four of the above**

File Description	Documents
Upload any additional information	**View File**

| Paste link for additional information | https://www.klnce.edu/download/NAAC/Jan2022/4.3.4.pdf |
| List of facilities for e-content development (Data Template) | View File |

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

294

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

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 providesthe integrated IT services like smooth running of automation, up-gradation and maintenance of automation package, college website, biometric services, troubleshooting of hardware, networking equipments 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 24*7 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 ofthe cleanlinessinside the college with the support of Housekeepers and sanitary workers.

Laboratory Equipment:

The equipment and machineries in the laboratory/workshop are maintained by the lab In-charge(s)/workshop In-Charge(s) with the advice of HOD through ISSG.

Nodal Centre

The nodal centre of the college is headed by the Principal as a chairman and all the head of the Departments are the convenors. The activities are carried out by the nodal officer Dr.V.Sivaramkumar,ASP,Mech. The main objective of the centre is to implement and monitor the Standard Operating Procedures stated by the government.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/NAAC/Criteria_4.aspx**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1152

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	**View File**
Upload any additional information	**View File**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

81

File Description	Documents
Upload any additional information	**View File**
Institutional data in prescribed format	**View File**

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	**https://www.klnce.edu/IIPC/IDCA/DeptSummary.aspx**
Details of capability development and schemes	**View File**
Any additional information	**View File**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1248

File Description	Documents
Any additional information	**View File**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	**View File**

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students'	**A. All of the above**

grievances Timely redressal of grievances through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	**View File**
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**
Upload any additional information	**View File**

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

324

File Description	Documents
Self-attested list of students placed	**View File**
Upload any additional information	**View File**

5.2.2 - Number of outgoing students progressing to higher education

33

File Description	Documents
Upload supporting data for students/alumni	**View File**
Details of students who went for higher education	**View File**
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET /SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

16

File Description	Documents
Upload supporting data for students/alumni	**View File**
Any additional information	**View File**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

6

File Description	Documents
e-copies of award letters and certificates	**View File**
Any additional information	**View File**

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

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 quality circles are established to develop the wellbeing of the student on academic, co-curricular and extra-curricular areas like Quality Education (Student), Advanced Research and Development, Career planning and Industrial Relations. 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.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.klnce.edu/Amenities/Committees.aspx

5.3.3 - Number of sports and cultural events / competitions organised by the institution

6

File Description	Documents
Report of the event	**View File**
List of sports and cultural events / competitions organised per year	**View File**
Upload any additional information	**View File**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The college has an alumni association with the objective of organizing the annual reunions. The alumni association was established in 1998, and has been maintaining a life-long connection between the institution and its alumni. The registration of alumni association is under process. The mission of the association is to foster strong bonds between alumnae, students and the institute. This alumni network enables them to remain engaged with the institute and contributes to its success through the association's programme and services.In collaboration with an extremely dedicated board of members, the alumni association functions effectively networking contacts and organizes events, which create an ever-lasting experience. The members are spread around the globe and the reunion arrangement provides opportunities to share their experiences, which they have gained through years. The activities involved in such gatherings are pivotal to the growth of the institution and for career development. Alumni association plays a great role in building the future of the institute by being its potential representatives in their social and professional life. Alumnae serve as role models for current students and are often well placed to offer practical support to students as they start their careers.

An alumnus pays visits to the institute and interacts with the current students about the expectations of the industry and guides them through the process. They conduct placement orientation programs to final year students. Our own alumni industrial experts are invited to hold technical sessions and many of them generously offer training to the students during their convenient times on a periodic basis. They help students with their projects, share job openings, walk them through the steps involved in securing internships, industrial visits and they ultimately establish a strong bondage with the institute and

the students. Alumni who are working in the renowned organizations are invited for guest lectures, expert talks, career guidance programs and discussion with industrial requirements. All these activities stand as a testimonial for an enriched relationship between the alumni and the alma mater.

The institute holds an exclusive login page at the college website for the alumni to reminisce the memories of events, which have taken place during the alumni meet. The gatherings are held at Madurai/Chennai/Bangalore/Virtual Mode (Online) and other places. A well-maintained database helps track down the contact information. The current students contact their alumni members and interact about placement and project guidance over phone and internet. The K.L.N.C.E. Alumni Association is enrolled with 10,012 Members and this association has chapters at Madurai, Bangalore and Chennai. In total, 31 Alumni Meet have been conducted both inside and outside the campus.

File Description	Documents
Upload any additional information	**[View File](#)**
Paste link for additional Information	**https://www.klnce.edu/alumni/login.html**

5.4.2 - Alumni's financial contribution during the year   **D. 2 Lakhs – 5 Lakhs**

File Description	Documents
Upload any additional information	**[View File](#)**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Vision of the College

To become a Centre of Excellence in Technical Education and Research in producing Competent and Ethical professionals to the society

Mission of the College

To impart Value and Need based curriculum to the students with enriched skill development in the field of Engineering, Technology, Management and Entrepreneurship and to nurture their character with social concern and to pursue their career in the areas of Research and Industry.

In order to achieve the above vision and mission, quality circles such as quality circle for Quality Education - Staff, Quality circle for Quality Education – Students, Quality circle for Career planning, Quality circle for Research and Development and Quality circle for Industrial Relations have been formed with conveners.

Each quality circle has a convener, faculty representatives from each department. Each convener reviews their plan of activities twice in a year along with IQAC convener in order to monitor the progress of the college in the right direction.

Three of the faculty members have been included in Governing council, the apex body of the college. They were involved in the decision making process. Two of the staff members were included in the finance committee of the college. They have participated in the finance committee meetings.

File Description	Documents
Upload any additional information	**[View File](#)**
Paste link for additional Information	**https://www.klnce.edu/Default.aspx**

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralization:

In order to disseminate power, various academic support units have been formed such as Industry Institute Partnership cell (IIPC), Innovation Promotion Cell (IPC), Prevention of Sexual Harassment (POSH) cell, Continuing Education Cell (CEC), Entrepreneurship Development Cell (EDC), Career Development Cell etc have been formed with conveners and members from departments.

Each department is given academic freedom by empowering the head of the department and faculty members. Each cell has its own plan of activities for the academic year. Each cell

organizes workshops, training programs for the benefit of staff and students. These cells convene review meetings with Principal and IQAC coordinator to review their objectives.

The curriculum development for each branch is executed in a decentralized manner. Each department has its own Board of Study (BOS) members and Anna University Representative. Each department has conducted two BOS meetings in a year. Each department conducts BOS meeting by inviting BOS members and AU representative either in an online / offline mode.

Participative Management: The activities pertaining to the Institute in respect of teaching, learning, Industrial Interactions, student's placement, research and development are reviewed by the management in a Management Review (MR) meeting which will be conducted once in a year.

File Description	Documents
Upload strategic plan and deployment documents on the website	**View File**
Upload any additional information	**View File**
Paste link for additional Information	**https://www.klnce.edu/download /objective.pdf**

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Skill Enhancement for faculty members

Faculty members were motivated to attend workshops, faculty training programs, short term training programs in their specific domains organized by other Engineering colleges and Industries such as Infosys, Honeywell etc.

Faculty members were given incentives to present their papers in International conferences and to publish them in International and reputed Journals like UGC journals. They are motivated to do Ph.D in part time in Anna University and other universities & to do online NPTEL courses in their interested subjects.

Skill Enhancement for students

In order to enhance employability skills of the students, Training and Placement cell organizes various training programs from the first year onwards.

Students are motivated to attend the workshops organized by their departments, other departments in the college and also workshops organized by other engineering colleges.

Students are guided to participate in technical competitions organized by other engineering colleges such as paper presentations, quiz, hackathon etc.

Students are motivated to do NPTEL online courses in their interested courses. Faculty members have mentored them to successfully complete their certifications.

Incentives were given to all faculty members and students who have completed their NPTEL online certification.

File Description	Documents
Strategic Plan and deployment documents on the website	**View File**
Paste link for additional information	**https://www.klnce.edu/IIPC/IDCA /IDCAMasterSummary.aspx**
Upload any additional information	**View File**

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

1. GOVERNING COUNCIL (GC)

The Governing Council is the highest body that monitors the progress of the college and suggests activities for the growth and overall development of the institution. It also aims at giving desired shape to the institution to meet the highest standards in the field of technical education. The main objective of the GC is to offer transparent and effective governance in building and developing the institution, taking the confidence of stakeholders. K.L.N. Sourashtra College of Engineering council, the sponsoring academy of the college, resolves in their EC meeting that the president of the Engineering council as the chairman of GC.

1. ACADEMIC COUNCIL

The Academic Council will be solely responsible for all academic matters, such as, framing of academic policy, approval of courses, regulations, syllabi, etc.

2.Board of Studies

The Board of Studies is the basic constituent of the academic system of the college. Its functions will include framing the syllabi for various courses, reviewing and updating syllabi from time to time, introducing new courses of study, determining details of continuous assessment, recommending panels of examiners under the semester system etc.

3.FINANCE COMMITTEE

The Finance Committee will advise the GC on financial matters. It shall prepare income and expenditure statements of the college in the prescribed format to submit to GC for fixation of tuition and others fees of the college. The Finance Officer / Senior Manager of the college shall play a key role in preparing the budget of the college. Entire staff of the accounts section works under his control. His duties will be clearly mentioned in the administrative manual of the college.

4. ROLES AND RESPONSIBILITIES OF THE HEAD OF INSTITUTION

The principal is the academic and administrative head of the institute and works for the growth of the institute. He will implement the policies approved by the GC, the highest decision making body of the college. He shall achieve coordination among various statutory committees and non- statutory bodies including Academic Council.

He is the ex-officio member of GC, Chairman of Academic Council, Chairman of Finance committee and also Chief Controller of the Examinations. He monitors admissions, examinations, evaluation for smooth functioning of the system.

He is authorized to nominate Coordinators, members and other administration functionaries in various committees. He is responsible for according extension or changes various functionaries in the administration, with the approval of Academic Council.

The other members in the Organogram are operated under as Principal per our college

organization chart.

5. ROLES AND RESPONSILITIES OF FINANCE OFFICER / SENIOR MANAGER – OFFICE

The Finance Officer / Senior Manager of the college shall play a key role in preparing the budget of the college. Entire staff of the accounts section works under his control. His duties will be clearly mentioned in the administrative manual of the college.

6. ROLES AND RESPONSIBILITIES OF HEAD OF THE DEPARTMENT, Professor etc

- **Responsible for all the academic affairs of the Department.**
- **Looks after day to day activities relating to teaching and other workloads of his/her teaching and non-teaching staff**
-
- **RESPONSIBILITIES OF PROFESSORS, ASSOCIATE AND ASSISTANT PROFESSORS**

Professor:

- **Teaching.**
- **Development of Curriculum, developing learning resource material & Laboratory development.**
- **Students Assessment & Evaluation including examination work of University.**

Associate Professor

- **Teaching including laboratory work.**
- **Evaluation including administering tests, invigilation during conduct of tests.**
- **Innovation in teaching, laboratory work and instructional materials, continuing education activities, academic and administrative planning and development work at departmental level and assisting at institution level.**

Assistant Professors

- **Teaching including laboratory instruction and academic activities such as acting as invigilator, Lab In charge, Coordinator (Attendance), assistance in conduct of seminars, symposia, guest lecturers.**
- **Student's assessment and evaluation, aside from acting as paper setter.**

File Description	Documents
Paste link to Organogram on the institution webpage	**https://www.klnce.edu/Download /College_org_chart.jpg**
Upload any additional information	**View File**
Paste link for additional Information	**https://www.klnce.edu/images/Organogram.jpg**

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	**No File Uploaded**
Screen shots of user interfaces	**View File**
Details of implementation of e-governance in areas of operation	**View File**
Any additional information	**View File**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Welfare Schemes For teaching staff

1. **Incentives for teaching staff members if they have produced 100% results in their subjects**
2. **Incentives for Ph.D holders for guiding research scholars.**
3. **Financial assistance of Rs.3,000/- for the faculty members of KLNCE for enhancing their knowledge by attending FDP / Seminar / Workshop / Conference.**
4. **Special incentives for staff members for presenting their papers in renowned journal with impact factor.**
5. **Registration Fee for NPTEL Courses are provided to the faculty members**
6. **Group Accident Policy – sum Insured Rs.10.0 Lakhs – Bajaj Allianz General Insurance Company Limited**

7. Mediclaim Policy – sum Insured Rs.2.5 Lakhs – New India Assurance Company Limited
8. Maternity Leave of 2 Months with salary for Ladies Staff
9. Long Service Certificate & Gift – More than 10 Yrs. Continuous service in KLNCE

Welfare Schemes For non teaching staff

1. Group Accident Policy – sum Insured Rs.10.0 Lakhs – Bajaj Allianz General Insurance Company Limited
2. Mediclaim Policy – sum Insured Rs.2.5 Lakhs - New India Assurance Company Limited
3. Free Uniform given to Driver, Conductor, Sweeper, Scavenger, Watchman.
4. Fee waiver in the transport facility for the children of non teaching staff
5. Day allowances for the transport staff
6. Free breakfast and Lunch for transport staff
7. Interest Free Loan for Marriage, Medical Expenses & Children Education
8. Salary advance without interest for the non teaching staff during festivals.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/PhotoGallery/FounderDay2012/FounderDay2012.aspx#location1**

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

20

File Description	Documents
Upload any additional information	**View File**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	**View File**

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

15

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	**View File**
Upload any additional information	**No File Uploaded**

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

172

File Description	Documents
Summary of the IQAC report	**View File**
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	**View File**
Upload any additional information	**View File**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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.

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 Charted 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.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**Nil**

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0.95

File Description	Documents
Annual statements of accounts	**View File**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	**View File**
Any additional information	**View File**

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The budget for each department is prepared by the Head of the Departments in consultation with lab In-Charges, faculty members. These department budgets were forwarded to Principal. Similarly all non academic departments also prepared their own budget for the entire academic year.

The overall financial budget is prepared annually by the Principal in consultation with accounts manager. The prepared budget proposal is placed before the Governing Council for approval. Budget allocation is done for every academic year for each department under various heads. Financial activities are carried out by accounts manager under the guidance of Principal. This process is scrutinized by the management and the auditors.

Utilization of budget is reviewed by the Principal in a meeting with all heads and academic support units. The unutilized fund of a department is transferred to other department based on the requirements.

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.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**Nil**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

1. Placement

IQAC in association with Quality Circle for potential employability have organized special training programs such as General Aptitude, Soft Skills, domain specific technical training, training on coding, expert talks from companies, skill level analysis, mock interview etc. Students are motivated to do specific online certification courses in their domains in order to improve their employability skills.

Quality circle for career planning has conducted expert talks on Digital Engineering, transformation, manufacturing, data driven digital transformation – Financial Industry etc. These expert talks were handled by experts from Tata Consultancy Services for 5 days. Some of the internal faculties have handled sessions on soft skills, numerical ability and logical reasoning. These are the initiatives of IQAC.

IQAC initiated the activity of giving company specific training to students before campus placements. As a result, 60% of final year eligible students have got placement opportunities during this academic year.

IQAC also motivated each branch to organize expert talks, workshops, faculty development

training programs in specific domains by inviting academicians and industrial experts.

As a result of above activities, the number of interns for Engineering students have increased incrementally. Also, the percentage of students placed has been increased in almost all branches.

2. Research and Development

IQAC in association with quality circle for research and development have motivated staff members to present papers in national and international conferences and also to publish papers in national and international journals. As a result, forty two staff members have presented their papers in conferences and published their papers in peer reviewed International Journals.

IQAC have motivated the staff members to apply for research grants from AICTE, DST etc to organize FDPs, STTPs for the benefit of students. As a result, five of the departments have received grants from AICTE to organize FDPs and STTPs in two or three series. Totally three FDPs and four STTPs were organized by the departments during this academic year. The average number of staff members who have attended the FDPs and STTPs were forty from nearest engineering and arts and science colleges. The research proposals submitted by staff members during this academic year were forty nine.

As a result of IQAC initiative, four of the Principal Investigators have presented their proposals during this academic year.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/General/Placement.aspx**

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

1. Internal Academic Audit:

The main objective of internal academic audit is to improve teaching learning process in the college. The other objectives include to improve effectiveness of teaching-learning process and to devise methodology to confirm maximum output from faculty members as well

as students, and finally assessment of learning outcome of the students. The convener prepares a plan of activities to be implemented as a part of this internal academic audit. The convener prepares the audit schedule which includes date of audit, the senior professors who are going to audit the class room teaching etc. The hand written content, resources utilized by faculty members such as ICT tools, question and answers, case studies, assignments, topics beyond the syllabus, self study topics for each subject were verified by the auditing team which may comprise of one or two professors from other departments. The assessment record of faculty members and also lab records are verified by the auditing team. The faculty members are counseled by Academic Audit committee to improve their performance in teaching and also in research activities.

2. Improvements in Results

IQAC has conducted periodic reviews to improve the teaching learning process. IQAC has initiated an hands on Training program for I year faculty members titled " How to Facilitate virtual learning" – on 16/10/2020. The course outcomes and program outcomes have been mapped for each department by the committee which includes senior professors from all departments. As an outcome, the end semester results of Nov'2020 / Dec'2020 and Apr'2021 / May 2021 results have been improved tremendously. The overall graduation results for the batch 2017 – 2021 of UG (Engineering) and 2019 – 2021 of PG (MBA, MCA and M.E) have been tremendously increased.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.klnce.edu/General/IQAC.aspx**

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	**B. Any 3 of the above**

File Description	Documents

Paste the web link of annual reports of the Institution	https://www.klnce.edu/download/Annual_report2021.pdf
Upload e-copies of accreditations and certification	**View File**
Upload details of quality assurance initiatives of the institution	**View File**
Upload any additional information	**View File**

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

1. Prevention of Sexual Harassment Cell (POSH) Cell

This cell has come into effect from 14.11.2015.

The Role of the cell:

- **Prevents discrimination and sexual harassment against women, by promoting gender equity among students and employees**
- **Ensures support services to the victimized and termination of harassment and fortify appropriate action is taken against the offender.**
- **Ensures victims and witnesses are not victimized / discriminated because of their complaint and establish the institution as Zero Harassment Zone.**

2. Women Empowerment Cell (WEC)

This cell has come into effect from 15.07.2017.

Objectives:

- **Organizes seminars, workshops to shape women both in professional and personal life**
- **Creates awareness on the importance of women's healthy and hygienic life style**

Facilities:

Common rooms and Day care center are provided for women in our college ladies hostel.

Activities Conducted for Academic year 2020-21:

1. **POSH cell has organized an expert talk, "Gender Stereotyping for Harmonious society" on 26.12 2020 for 54 students.**
2. **WEC has organized an awareness program,"Indian Women on a Glorious Path then and Now" on 06.03.2021 for 81 students and 28 women faculty members.**
3. **Grievance Redressal Committee (GRC) of KLNCE conducted a program,"Awareness on Students Gender- based Misconduct behaviour & Online etiquette" on 04.06.2021 for around 350 (boys and girls) students.**
4. **POSH cell has organized an Awareness program on"Sexual Assault Awareness: Laws and Helplines to seek Justice" on 18.12.21 for 550 first year UG and PG students.**

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.klnce.edu/General/WECell.aspx**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**C. Any 2 of the above**

File Description	Documents
Geotagged Photographs	**View File**
Any other relevant information	**View File**

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid Waste Management :

A bio-gas based turbine generator set is installed nearer to the Men's hostel. The food