



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

KINGS COLLEGE OF ENGINEERING

**KINGS COLLEGE OF ENGINEERING PUNALKULAM, GANDARVAKOTTAI
TALUK PUDUKOTTAI DISTRICT**

613303

www.kingsengg.edu.in

SSR SUBMITTED DATE: 29-11-2021

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

November 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Kings College of Engineering (KCE) was established in the year 2001 by Raj Educational Trust (RET), Chennai, with the singular aim of providing quality education to the poor and under-privileged students of this region. Situated on the Thanjavur – Pudukkottai Highway, spans over 50 acres in a beautiful, serene atmosphere ideally suited for technical education. KCE is approved by All India Council for Technical Education, New Delhi, affiliated to Anna University, Chennai and is a NAAC Accredited institution. The institute offers five UG and four PG programmes. ECE, EEE and Mechanical Engineering departments are recognized as Research Centres by Anna University, Chennai, for pursuing Ph.D. programmes. Departments of Civil, CSE, ECE and Mechanical Engineering are permanently affiliated to Anna University, Chennai.

Vision

To impart globally competitive technical education, enhance human values and to provide a research atmosphere to the socially challenged aspirants.

Mission

Providing a comprehensive theoretical foundation, inculcating state of the art engineering practices and cutting edge research ambience that leads to societal upliftment with ethical values through effective teaching – learning methodologies and appropriate information communication tools via dedicated faculty to the aspirants.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Strength

- Institution is accredited by NAAC with 'B' Grade, Permanent Affiliation status from Anna University for 4 UG programmes and certified with 2(f) and 12(B) status by UGC.
- Meritorious and economically weak students benefit from scholarships and provision is offered for payment of fees in installments.
- *Excellent Infrastructure and Laboratories* with Cutting edge facilities.
- *Committed faculty with good retention ratio and team spirit.* Faculty members are trained on various pedagogy techniques, class room management and recent technologies.
- *Systematic planning, monitoring, review and audit* process of all academic routines resulting in quality enhancement culture.
- Student centered enhanced *Teaching-Learning strategies* integrating ICT in the process keeps learner updated.
- High attention towards *practical exposure* to students through inclusive laboratory practices, mandate In-House training, Project work practices.

- Various *innovative practices* are adopted to instill developments in the minds of students and faculty members. “*King of KINGS*” award, *Best Department Award* ensuing individual and overall developments are practiced. *Foreign Industrial visits* are arranged for the Best pre-final year student every year. *Cash award for University rank holders* motivates advanced learners. Totally 9 of our students has bagged University ranks during last five years.
- Systematic soft skill and aptitude skill training by Training & Placement department regularly in Time-table enhances employability resulting in increased placement track record.
- Value Added Courses, Refresher courses, FOSS training in collaboration with IIT-Bombay through Spoken-tutorial workshops enhances students skills and widens career opportunities.
- Faculty members undergo industrial visit (*Faculty Visit to Factory Scheme*) helps in better dissemination of knowledge to the students .
- *Well established R&D centre* promotes culture of research and innovation among staff and students. Anna University approved Research Centre for 3 of the departments supports research.
- *Professional Societies and chapters established with student and faculty membership and active participation. Life Skills and Professional Skill training is provided through well planned programmes through various clubs and wings. Students CHANGE club* provide opportunities to students for excelling in all spheres inculcating Conduct, Health, Attitude, Nexus, Gratitude, Excel.
- The most appreciated practice followed during graduation day is graduates receive degree from their parents who sacrifice for their welfare.

Institutional Weakness

- Challenges in securing funded projects
- Limited scope for industrial interactions due to rural locate.
- Number of GATE qualified and placed students in public sectors and government research organization are minimal.
- To provide more campus placements with higher salary packages

Institutional Opportunity

- Collaboration and interaction with NITT experts
- More Faculty Publications are expected as research interests and enrolments among faculty is found increasing
- Potential contribution to economic development of the region.
- Formation of Incubation centers, start-ups to convert student projects into product.
- Customized and need based courses as per industry / society requirements.
- Exchange program for faculty and students with foreign universities.
- Possibility of becoming an Autonomous institution.
- Providing community outreach through our extension activities.

Institutional Challenge

- Uncertainties in industry manpower requirements and recession to provide better placements
 - Proliferation of Engineering Colleges and decreasing students aspiration towards engineering
 - Bridging the gap between course content and industry needs fitting academic schedule.
 - Work strategically on key requirements of industry to offer consultancy works.
 - Most of the students are from rural background, more efforts are needed to shape them as good engineers.
- Exchange program for faculty and students with foreign universities.
- Possibility of becoming an Autonomous institution.
 - Providing community outreach through our extension activities.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Being affiliated to Anna University, curriculum and syllabi framed by the university is followed. Regulations 2017 of Anna University incorporates CBCS with scope for various elective courses, open electives. With reference to Anna University academic schedule and web portal entry period, Academic Calendar is prepared and serves as the scheduler and remainder for all academic routines.

Structure of Course Plan (Theory & Lab), Question Bank, Lab Manual, e-material is planned and communicated to the faculty members. **Course plan** gives a roadmap to the faculty and students. It has components for Content Beyond Syllabus, NPTEL sessions, PPT sessions and other ICT enabled sessions. **Professional and Career Enhancement (PCE) activities** for courses facilitates student centric learning. Course plan structure entails PCE activity that gives credits to students in terms of knowledge, skill enhancement and internal examinations.

Learning materials gear-up the academic session for the learners with appropriate guidelines and resources for theory and practical courses. Content caters to the need of diverse learner community in terms of simplicity and scope of in-depth explorations. In-order to extend learner's horizons and widen experiences, planning of wide range of activities like Guest Lecture, Seminar, Workshops, Refresher Courses, Professional society activities etc., that enriches the curriculum are made. SWAYAM/NPTEL certifications, FOSS training in association with IIT Bombay, Value added courses etc are mandated to expand technical expertise.

Courses such as Environmental Science and Engineering, Professional Ethics and Human Values, Principles of Management, Total Quality Management etc., helps students with essential attitude towards Gender, Environment and sustainability, Human values and Professional Ethics. Various programmes and activities are promoted through Women's Cell, Eco Club, Training & Placement Department to educate students about gender equity and ethics in engineering, environment & its sustainability etc. The institute conducts programmes on Yoga, Health & Hygiene, Energy & Water conservation awareness sessions etc. tot imparts transferable and life skills to the student community. The students are highly motivated to undergo internship training, In-plant training and industrial visits, which enhances the practical knowledge in their field of study. Feedback from all stakeholders are collected, analyzed and utilized to strengthen practices and efforts.

Teaching-learning and Evaluation

- The Institute follows the guidelines of state government and affiliating University for admissions in UG and PG programmes. 60% of students are filled against reserved categories.
- Institute takes measures learning levels of students and support all category of students to progress. Entry level analysis is made during students entering the campus. Based on class room interactions and assessment results suitable support is provided.
- Initiatives are taken to support advanced learners and slow learners
- Staff student ratio is maintained as per norms. Faculty members serve as mentors and guide respective wards.
- Student centric learning methods, experiential methods are adopted towards enhancing learning efforts.
- All faculty members utilize ICT facility of the institute. Course plan structure has mandated ICT usage and hence all faculty members (100%) use ICT for teaching.
- Smart classrooms, IIC , Industrial visits, Virtual lab sessions, Field Visits, Project domain specific industrial visits contribute towards innovation in teaching-learning
- PCE activity for all courses ensures 100% student centric learning.
- Average % of full-time teachers with Ph.D 11.21%
- Average full-time teaching in the same institute 7.18%
- Evaluation process of the institute is made transparent and rigorous to support continuous learning efforts
- Mechanism to deal with student grievances and issues are made time-bound and transparency is maintained.
- Staff and students are aware of the CO-PO-PSO-PEO. All strategies are kept in align to meet institutes Mission and Vision.
- Slots are assigned at regular time-table for student value addition initiatives.

Research, Innovations and Extension

- Research proposals and programme fund seeking proposals are submitted by all department every year. Student project proposals are sent to various funding agencies.
- Receiving AICTE grant-in aid towards Soft skill personality development programme – KINGS Skill Development lab is established to support PMSS category students skills
- TNSCST project awards, Vishwakarma Award –selections till regional level, participation in Smart India Hackaton are regular routines
- Innovation Ecosystem of the institute promotes student creativity and encourages innovative project efforts.
- Anna University approved research guides and AU approved research centre of the institute support research initiatives.
- Institute Innovation Council of the institute is ranked 2.5 for the last academic year
- 9.5% of faculty are Ph.D registered faculty and totally 19 of our faculty are with Ph.D qualification
- NIT, Trichy is our Mentor institute under AICTE-Margadarshan scheme
- Institute has collaborated with TIDITSIA to promote industrial experience and Entrepreneurial efforts.
- Efforts are also taken towards establishing linkages and collaborations with various industries

Total of 147 extension activities are organized during the last 5 years. Average percentage of student participation in extension activities is 84%

Infrastructure and Learning Resources

The Institute' campus is a multi-faceted place. It is a focal point for memories for the alumni; it serves as a nurturing place for the pursuing students and serve as an knowledge source for aspiring students. A campus usually ends up defining the institution; the classrooms, the facilities therein and the time spent in all come together to create a unique experience. Hence, KINGS always strive to afford the students more than they aspire.

- IT infrastructural facilities are frequently updated.
- Student computer ratio 1:1
- >50MBPS internet connectivity with Wi-Fi zone to connect
- Well established maintenance procedures for all facility supports campus suitable for teaching-learning
- Indoor and Outdoor sport facilities encourages student participation in zonal, university, state level events.

Infrastructural facility (Major)

- Percentage of classrooms and seminar hall with ICT facility is 63.89%
- Number of classrooms :31
- Number of seminar halls :5
- Number of Smart classrooms :6
- Indoor stadium :1
- Central Library :1
- Video Conferencing rooms :2
- Gym facility :1

Student Support and Progression

- 24.45% of students are benefitted from scholarships and freeships of Government
- 17.88% of students are benefitted from institutional / non-government agency scholarships
- Students are encouraged to enroll at various clubs, societies and wings. All students are given opportunity to take part in various events, competitions organized internally and to external programmes.
- Student Induction Programme, Orientation programme, Bridge courses, Remedial classes, Lateral entry coaching support students to align with curriculum and progress in studies.
- Language lab supports students for improving communication skills
- Intra-Collegiate sport meet and Annual Cultural festival-SANGAMAM is organized every year. Sportwise coach, courts are available to encourage students participate in sports.
- Students are active members in various curricular, co-curricular societies and clubs. Students organize various events and are given opportunity to exhibit their talents.
- Alumni association is registered under TN societies registration act. KCE Alumnus actively support in sharing experiences among juniors, technical events, placement opportunities.

Governance, Leadership and Management

- Managing trustee steers the operations and guides in all activities.
- Management entrusts the Principal and various academic Heads to shoulder the responsibilities in fixing strategy for all academic activities. Principal in consultation with the Management ensures the creation of right ambience to its intellectuals to achieve its academic goals. Departments and Committees for various activities executes their responsibilities vested in them.
- The Principal is empowered to plan and execute academic routines and makes available means to achieve desired results. The Heads of Departments are taken into confidence by the Principal and given freedom to administer their respective department. Faculty support in creating scientific temper among students and provides counseling for betterment
- Decentralized top-down disbursement of responsibilities, entrusting effective functioning giving equal opportunities to the individuals on turn basis is followed.

Institutional Values and Best Practices

- The Institution has a vast campus with many open spaces, huge, age-old trees preventing soil-erosion and provides a pollution-free atmosphere.
- The lush green peaceful atmosphere of the campus is landscaped with a lawn area of about 15256 sq.m., dotted with about 7296 trees.
- Institution has adopted eco-friendly practices and takes necessary steps towards energy conservation, rain water harvesting etc.
- Gender equity promotional programmes are organized periodically.
- Power conservation value is imbibed as regular culture among staff and students. Alternative sources of energy system is into place.
- Efforts are taken towards maintaining campus eco-friendly
- Rain-water harvesting system is in place.
- Disabled friendly campus.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KINGS COLLEGE OF ENGINEERING
Address	Kings College of Engineering Punalkulam, Gandarvakottai Taluk Pudukottai District
City	Punalkulam Gandarvakottai Tk
State	Tamil Nadu
Pin	613303
Website	www.kingsengg.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	J Arputha Vijaya Selvi	04362-282676	9442590002	04362-282494	principal@kingsengg.edu.in
IQAC / CIQA coordinator	K Abhirami	04362-282474	9841013972	04362-279779	abhirami.cse@kingsengg.edu.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	22-07-2001

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	15-01-2019	View Document
12B of UGC	15-01-2019	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-07-2021	12	Yearly affiliation by AICTE Current academic year affiliation status is attached

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Kings College of Engineering Punalkulam, Gandarvakottai Taluk Pudukottai District	Rural	48.1	39405.2

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	Higher Secondary	English	90	0
UG	BE,Computer Science And Engineering	48	Higher Secondary	English	60	0
UG	BE,Electronics And Communication Engineering	48	Higher Secondary	English	90	0
UG	BE,Electrical And Electronics Engineering	48	Higher Secondary	English	60	0
UG	BE,Mechanical Engineering	48	Higher Secondary	English	120	0
PG	ME,Computer Science And Engineering	24	Under Graduate	English	9	0
PG	ME,Electronics And Communication Engineering	24	Under Graduate	English	18	0
PG	ME,Electrical And Electronics Engineering	24	Under Graduate	English	9	0
PG	ME,Mechanical Engineering	24	Under Graduate	English	9	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	15				16				126			
Recruited	2	1	0	3	3	2	0	5	73	53	0	126
Yet to Recruit	12				11				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				73
Recruited	33	40	0	73
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				38
Recruited	30	8	0	38
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	1	0	3	2	0	5	2	0	15
M.Phil.	0	0	0	0	0	0	5	11	0	16
PG	0	0	0	0	0	0	63	40	0	103

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
PG	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0
UG	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	36	29	39	35
	Female	37	39	47	26
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	93	68	86	118
	Female	42	34	36	43
	Others	0	0	0	0
General	Male	7	3	1	1
	Female	3	0	3	1
	Others	0	0	0	0
Others	Male	0	0	3	7
	Female	1	0	1	1
	Others	0	0	0	0
Total		219	173	216	232

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
367	360	389	407	361
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
9	9	10	10	10

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
748	814	1150	1301	1502
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
347	359	365	377	416

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
211	250	436	344	445
File Description	Document			
Institutional data in prescribed format	View Document			

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
134	135	128	121	143
File Description	Document			
Institutional data in prescribed format	View Document			

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
134	135	128	121	143
File Description	Document			
Institutional data in prescribed format	View Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 36

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
97.80	415.71	354.07	372.83	729.26

4.3

Number of Computers

Response: 507

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

Devised procedures initiating from scheduling of Curriculum delivery, Assessment, Evaluation, Enrichment programme supported by enhanced approaches of Teaching & Learning Process, ably verified through Academic Audits & Feedback contributes to the effective curriculum delivery and transaction. Being an affiliated Institution, curriculum and academic schedule as prescribed by Anna University is followed. However, semesterwise course delivery is scrupulously planned for its effective implementation. Curriculum implementation process of the institute systematically organizes strategies for teaching, learning, evaluation and support services. Curriculum realization is made effectively by competent faculty members imbuing interactive student centred learning.

Institution has devised a systematic procedure for curriculum implementation. Overall planning, guidelines are provided by the Head of the institution with suitable directions to the concerned activity coordinator / in- charges. Department level planning for the delivery of the courses will be made by the faculty under the guidance of Head of the Department.

- Staff council meeting examines and confirms the operational strategies to be followed. Minutes of SCM is disseminated during DRM. Time-Table committee derives schedule for courses in-adherence to the credits and institutional value addition hours. HODs verify academic flow of the courses periodically. Interactive class room practices pave way for active student learning.
- Planning and preparatory works are carried out well ahead to semester commencement includes: subject allocation based on competency & willingness, time-table preparation, course plan that serves as the complete layout for the course delivery, preparation of learning materials, curriculum enrichment initiatives, Orientation and Bridge course etc.
- With reference to Anna University Academic Schedule and Web Portal Entry period, Academic Calendar is prepared and circulated before commencement of every semester.
- Course plan structure entitles flow for the course (both theory and lab), ensures an organized delivery and assessment. Faculty members follow the course plan during the delivery of the course and thereby keep up to the standards and procedures.
- Readiness of E-material, Question bank and Lab manuals are ensured before the semester commencement.
- State of the art Infra-structural facilities effectively supplements and motivates enhanced learning environment.

- ICT enabled like sessions on NPTEL, Lecture Video sessions promotes video based delivery by eminent experts from the institute of repute. Resource persons from Industries and various Organizations are invited regularly to enrich learning.
- Central Library provides Students and Faculty with necessary resources for learning. Internet facility and Wi-Fi zone augments the information source.
- Faculties are encouraged and supported to attend various programmes to update their knowledge on emerging trends.
- Keeping in mind the various parameters to be met during the implementation of the curriculum as stated, desired emphasis during the delivery is taken care. Periodical Verifications, Review, Academic audits, Meetings are conducted at every stages of curriculum delivery and transaction stages.
- The Institutions ensures/analyzes the fulfillment of stated objectives periodically and takes steps for improvement. Engaging in effective curriculum delivery and creating authentic measures of student learning helps faculty and departments create opportunities for deep learning.

File Description	Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

- With reference to Anna University Academic Schedule and Web Portal Entry period, Academic Calendar is prepared and approved during SCM before commencement of every semester.
- Academic Calendar serves as an information source and aids the planning of Student, Faculty and Departments. To ensure effective curriculum delivery, Institution follows a systematic procedure giving weightage to academic improvement while equally insisting on the overall development of students.
- Academic calendar includes timeline for curriculum delivery, periodical internal assessment schedule, curriculum enrichment programmes, Academic Audit, feedback and other activities. Academic calendar is circulated to departments during every semester and is posted at institution's website and all department notice boards for reference.
- In addition, it also includes schedule for Institutional practices / activities viz., Class test, Week test, Assessment Q.Paper submission, Answer script submission, Class committee meeting, Professional society activities, Extension activities, Seminar/Workshop/Guest Lecture, DRC meeting, IQAC meeting, College Day, Sports Day, Revision classes, Counseling sessions, Audits etc.,
- Functioning of the Centralized Examination Cell and the procedures adapted for the conduct of assessment and evaluation ensures rigor and transparency in the process. Students are given suitable suggestions for improvements.
- All the students are familiarized about the transparency in internal assessment. Each course evaluation gains 20 marks through internal assessments and 80 marks from end semester examination.
- Marks secured in internal assessments are entered at KINGS ERP by faculty members. Reports are generated at Exam cell and entry at AU web portal is made using this centrally.

- Internal marks secured at every stage of assessment are informed to students to help in progressive initiatives and betterment. Analysis on the internal marks gained by the students, shows progressive trend.

File Description	Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 9

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 302**1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.**

2020-21	2019-20	2018-19	2017-18	2016-17
83	64	77	34	44

File Description	Document
List of Add on /Certificate programs	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years**Response:** 92.76**1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
748	814	1150	1062	1234

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document

1.3 Curriculum Enrichment**1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum****Response:**

Equal opportunities are given to both the genders in all activities and routines at the institution. Institutional practices encourages women faculty and students to become member in clubs / societies and responsibilities are vested equal towards exhibiting potential. Periodical awareness programmes, counseling and motivations are provided to girl students to help them excel and unveil their talents. Women's Cell, POSH Cell empowers female faculty and students through various programmes and initiatives. Women's day is celebrated with vigor in the institution campus. Girls and boys participate in

various co-curricular activities such as paper presentations, organization of paper contests, group discussions and technical quiz programmes.

Sensitizing students to contribute towards Environmental and sustainability series of programmes are organized by NSS, NCC, Eco Club. Various camps, awareness sessions, Tree plantation programmes are organized periodically. Student Change Club imparts values through oath during SCC meet. Competitions are also organized periodically. Events are also organized during National, International Commemorative days with values on nature. Students are also encouraged to undergo project works with solutions to environmental issues. Various programmes to inculcate human values among students are organized periodically. Blood Donation Camps are regularly organized. NCC, NSS volunteers are sent for disaster management exhibiting societal responsibilities. NSS units regularly organizes social and cultural activities internal and at neighbouring villages.

Professional ethics and values are inculcated regularly through staff-student interactions, regular habitual. Curriculum includes courses on professional ethics and values.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 39.63

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
137	145	155	147	161

File Description	Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 50.53

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 378

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni

Response: A. All of the above

File Description	Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 40.03

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
223	176	223	253	255

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
525	543	552	570	630

File Description	Document
Institutional data in prescribed format	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 59.24

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
222	173	205	251	255

File Description	Document
Average percentage of seats filled against seats reserved	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Governing the Institutional Policies in offering quality technical education to the aspirants, all our strategies are aligned to improve Learner centric educational system supporting professional competency building among students. It is essential to provide opportunities for each individual to develop skills through, independent and collaborative learning. Educational strategies are carefully set to fit diverse group of students and cater to their demands & objectives. Entry level analysis during student induction, Orientation programme and Bridge courses as applicable are organized.

Continuous Internal Assessments, Classroom & Laboratory interactions, Class Committee meeting interactions, University results helps in identifying advanced learners and their needs. Advanced learners are motivated to raise their standards and opportunities are provided to enrich their potential.

- Students are motivated for securing University ranks. Suitable guidance is given at all stages by faculty members. University rank holders are awarded with cash prize (upto 1 lakh) during Induction day.
- Various Competitions to exhibit technical and other talents are organized periodically. Enrollment into Professional societies and participation into events under the banner paves way for knowledge enrichment. Students are guided to undergo MOOC and Internships.
- Advanced learners are facilitated with state of the art facilities in terms of well equipped library provided with latest edition of Books, E-Books, Online journals, DVDs. E-journals & other National / International Research publications are forwarded for reference on demand to students email-ids.
- Advanced learners are also encouraged to send project proposals to government agencies like Tamil Nadu State Council for Science and Technology (TNSCST) and also to other institutions. They are motivated and guided to participate in various National level contests like Vishwakarma Award, IIC events (Smart India Hackathon) etc.
- Encouragement to participate in National & International Conferences. Instilling research orientation, Mini Project works, Project Based Assignments, In-House Project works are recommended to encourage their potential exposure.
- Coaching classes to support student participation in GATE and other competitive exams are scheduled in regular Time-Table. Stocking of Books required for preparation at Central Library supports their preparations.

To encourage the toppers the following awards are institutionalized

- 1.KING of KINGS(Best Outgoing Student Award)
- 2.Foreign Industrial Visit(Best Pre Final Year student from every branch sponsored for Foreign Industrial visit)
- 3.Rank Holder Awards (University rank holders are awarded with cash prize during subsequent Induction day)
- 4.Proficiency Awards (Class toppers are awarded every year during Annual Day celebrations)

Student regularity in attendance, performance in Internal Assessments, Laboratory & classroom interaction helps in identifying potential learners and slow learners. During Counseling sessions, Class Committee interactions, slow learners get opportunity to express their difficulties. Course in-charge by the directions of HoD takes necessary steps for betterment. Parents are called for interaction when student show disinterest in learning / no progress even after continuous support. Remedial classes offering special coaching is given to slow learners after extended hours. Special coaching on various Mathematics courses & other problem based courses are also organized to support students.

File Description	Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 6:1

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

Response:

Teaching-Learning practices of the institute engages students into the process. Incorporating students' interests and skills into the learning process, various activities are systematically practiced. ICT based teaching methodologies like Lecture video sessions, Virtual lab sessions, PPTs are utilized to offer enhanced learning experiences.

Experiential learning

Teaching methodologies adopted by faculty members incorporate experiential learning for courses as applicable. Students are engaged to experience and learn by means of "Learn by doing". In addition to regular laboratory experiments mentioned at syllabus for courses, content beyond experiments are executed. Internships, Industrial visits, Field visits, In-House training activities are done periodically to widen knowledge & skills. Inculcating field experience / industrial experiences, internships programme is mandated to all students. Students undergo Online /Offline internship programmes during programme duration. Credits are also accumulated for the internship initiatives based on the duration. Simulation exercises, Virtual lab sessions with evaluation component complements skill widening efforts. As a part of final year project work, domain specific industrial training is also mandated.

Participative learning

Experts from industry, academia are invited regularly for workshops as resource persons imparting practical exposure on recent trends. Students are also encouraged to participate in technical events, competitions organized by department clubs, student association, professional societies. Students organize various events at campus exhibiting their potential. Students are encouraged to undergo NPTEL,

SWAYAM certifications and other MOOCs. Students undergo Mini-project works, In-House project works to expand their technical skills.

Professional and Career Enhancement (PCE) practices

To complement curriculum based course learning, PCE activities are mandated for all courses. Students participate in PCE activity as a part of internal evaluation for courses. To augment knowledge / skill/ attitude gaining process for courses, students will participate in PCE activities. Identified PCE activities viz Case study presentation, Role play, Application oriented exercises, Student seminar, Circuit design, Mind-map, Concept map, Quiz, Picture Prompt, Think break, GATE questionnaire, Poster presentation, Virtual lab exercise based evaluation etc. are included in course plan. Weightage for PCE activity is given at Internal assessment evaluation thereby ensuring all students participate in assigned activities and gain knowledge/skill/attitude.

Problem solving methodologies

Instructional strategies for Problem based courses give prime focus to student involvement in solving exercises regularly. Students are motivated to solve exercise problems in classrooms and home assignments are also practiced. Remedial classes are organized to support students requiring additional coaching.

File Description	Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

Motivating student learning, engaging learner in the process and helping student achieve the intended learning outcome, ICT tools demonstrate the effectiveness of Teaching-Learning. ICT tools connect students to vide information sources and facilitate enriched learning. ICT tools encourage independent & active learning and students understand responsibility towards learning process. ICT based teaching methodologies adopted by faculty members stimulate learner into the process. Diverse set of ICT tools are used to create, communicate, store and manage learning resources. Institute has integrated ICT as an integral part of teaching-learning.

Providing higher order thinking skills, ICT based teaching-learning strategies promote creativity & individualized options to students. Students are able to understand concepts easily and guided to deal with problems. Interactive smart boards, Projectors allows projected content manipulations and save it for later reference. Student engagement is found higher during ICT enabled teaching-learning activities.

Smart classrooms facilitates blended teaching and learning, provides better understanding of concepts. Smart classrooms improves visualization, creativity and better in-classroom experience.

Google classroom platform supports sharing of resources by faculty, assign classroom activities for

students, evaluate submissions in a easier manner. PCE activities are conducted through GCR platform. e-materials, e-books are shared through Google classroom. Submission of assignments, tests, conduct of quiz, evaluation are made in a streamlined manner using the portal.

Lecture videos for courses are streamed through KCE Youtube channel. Online programmes inviting external experts are also streamed through college youtube channel. Students view the videos in a self-paced manner.

Virtual lab sessions are organized to provide remote access to simulation based labs in various disciplines of engineering. Virtual lab sessions enthuse students curiosity and help in learning basic and advanced concepts through remote experimentation. NPTEL sessions on chosen topics for courses provide enhanced learning opportunities and certification for courses. Powerpoint based presentations are part of regular teaching-learning session. Hot potatoes are used to create interactive MCQs, Short-answer, jumbled sentence, crossword, matching/ordering, gap-filling exercises. Various other tools like Edmodo, Menimeter, JCross, Testmoz, Edpuzzle are used to create exciting teaching-learning experiences. ICT enabled classrooms, Seminar Halls, Laboratories facilitate enriched learning experiences.

File Description	Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 8:1

2.3.3.1 Number of mentors

Response: 89

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 11.21

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
21	18	14	11	10

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 7.18

2.4.3.1 Total experience of full-time teachers

Response: 962

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

- Kings College of Engineering is affiliated to Anna University, Chennai and abides to the rules and regulations framed by the affiliating university in all aspects with regard to syllabi, examination and evaluation.
- As per affiliating university regulations, for all theory and practical courses including project work, the continuous assessment will carry **20 marks** i.e. the internal mark while the end semester university examination will carry **80 marks**. (Maximum of **100 marks** is converted to **80 marks**)
- The total marks obtained in all three internal tests put together out of 300, would be proportionately reduced for 20 marks and rounded to the nearest integer.
- Three internal assessments namely Continuous Assessment Test I (CAT I), CAT II and Model exam are conducted on periodic basis with the weightage of 100 marks in each semester.
- The internal assessment process is communicated to the students during the orientation program for the first year students and during department orientation program, for the senior class students.
- During the semester as end semester examinations, internal assessment schedule, seating arrangements, guidelines to students, duty list, squad duty list and guidelines to staff members are informed well in advance. The information regarding internal assessments are disseminated to the students in class committee meeting, in SCC (Student Change Club) gathering and also reiterated during counseling sessions by the mentor.
- Changes in schedules, patterns and guidelines are immediately notified to the students through class coordinators and department notice boards. Also shared to respective students' whatsapp group through class coordinators.
- MCQs, descriptive type questions, analytical type questions were adopted on continuous basis before the end semester examinations, to train the students and get mentally prepared for both offline and online exams during pandemic.
- For model exams that comprises of all five units, two question paper sets are framed by the subject handling staff. One of them is selected for model examination by the examination cell and the other one is provided to the students for practice during revision classes.
- Department IQAC member evaluates the quality of the question papers and checks the Blooms Taxonomy levels. Subsequently, the question papers are verified by the Head of the Department for any discrepancies. Finally, the approved copy is mailed to the Head of the Institution, during online exams and submitted at the exam cell during Offline exams.
- Internal assessment is highly transparent ensuring that the attendance sheets of internal exams are signed by each student in person. Absentees report is prepared after completion of every internal assessment and the defaulters details are informed to the concerned department HoDs for necessary follow up action.
- Academic Progress in internal assessments and attendance are periodically communicated to the parents by post, telephone and conveyed in PTA meeting also,
- Thus by adopting to the regulations and guidelines of the affiliating university, the examination mechanism of internal assessment is transparent and robust in terms of frequency and mode.

File Description	Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

- The examination cell is headed by CCE (Chief Coordinator of Examinations), assisted by Deputy CEs and exam cell coordinators from each department for effective coordination with department staff members and disseminating the exam cell related information to all the students timely, thereby the examination process of both internal and end semester examinations are carried out in a smooth pace.
- An academic calendar is prepared based on the academic schedule and internal assessment schedule published by Anna University. After approval by the Head of the institution, the academic calendar is posted in college website for the reference of staff and students.
- The internal assessment examinations schedule is framed as per the academic calendar. Schedules and guidelines regarding internal assessments are posted in college website, displayed in department notice boards and shared through respective whatsapp group well in advance to all the students.
- The internal examination answer scripts are evaluated by the course handling faculty within three working days from the date of examination at a centralized valuation centre.
- The answer scripts of all internal examinations are shown to the students for self assessment and the suggestions would be given by the subject handling staff for students' improvement in forthcoming examinations.
- If a student comes across with any grievances, then the subject handling staff clarifies it. In rare cases, if students' grievances are not addressed satisfactorily then students can approach the Head of the department for redressal.
- After every assessment, the examination marks and attendance are entered in CoE portal and every student's entry is cross verified by the CCE to ensure that all marks and attendance are entered correctly without any deviations.
- Further, the students can view the marks and attendance in their individual login of CoE portal and can address the discrepancies to the exam cell through class coordinator.
- If any malpractice is booked during end semester examinations, then it is referred to the examination cell and it is dealt as per the guidelines of Anna University.
- If the student is not convinced with their end semester examination results, there is a provision for students to apply for photocopy of their answer script in a theory course. The photocopy of the answer script is valued by the subject handling staff and recommended for revaluation.
- Based on the recommendation, the student can register for revaluation through proper application to controller of examination of the university. The revaluation process is carried out and the results are published.
- If a student is not satisfied with the revaluation result can apply for review of his / her answer script in a theory course, through the Head of the institution.

With the approval from the Head of the institution, any grievances raised by the students with regard to end semester examinations are addressed to the Controller of examinations Anna University and with close coordination with Zonal office, the issues are solved at the earliest.

File Description	Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

Program Outcomes (POs): It represent the knowledge, skills and attitudes the students should have at the end of a course completion of their respective engineering programme.

Course Outcomes (COs): It gives the resultant knowledge and skills the student acquires at the end of each course.

Program Specific Outcomes (PSOs): These are statements that defines outcomes of a programme which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

Being affiliated institute, Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course outcomes (CO) as stated in the curriculum by the University are incorporated into educational strategies. Systematic procedures are set to help learners to achieve stated CO, PO, PSO, PEO and reflect the Mission, Vision of the institute.

Vision, Mission, PEO, PSO, PO and COs are available in the Institute website (www.kingsengg.edu.in) and at prominent location of the campus. During the class committee meeting and faculty meeting POs and PSOs are reviewed among the students and staff members during Department Review Meeting (DRM). Vision and Mission of Institute and department are posted at department office and laboratories and communicated to the parents during Induction Day, Parents Teachers Meeting.

Course Outcomes (COs) are reviewed during Department Review Meeting (DRM). Under the purview of Programme Advisory Committee(PAC) members, review and strategies to achieve stated outcomes are planned. Necessary analysis and review meetings are organized periodically. Alumni, Industry experts, PAC external expert opinion and suggestions are valued. The course outcomes and their mapping with program outcomes and program specific outcomes are elaborately discussed and derived during DRM.

COs are communicated to the students during the Orientation session. PEO, Pos, Cos are included at learning materials like Question bank and Lab manual. Course in-charges elaborate on COs, attainment of COs to learners during semester commencement. Course Assessment Plan, Course Outcome Alignment Matrix, Assessment Paper Quality Matrix are included at Question bank for student reference.

Comprehending the significance of Course outcome attainment, Faculty members plan Teaching-Learning-Assessment strategies. Review of attainment analysis, suitable remedial measures are planned. Well defined action plans justifying the goals of the mission statement, attainment of the stated mission through appropriate orientation, implementation, monitoring and review process are incorporated as regular routine. Internal seminar sessions are also organized to orient faculty members towards Outcome Based Education.

File Description	Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Course Outcomes (COs) are broad statements of what a learner should be able to demonstrate upon completion of a course. COs are the measurable, achievable, realistic attributes and is stated in the curriculum of Anna University. Course outcomes are mapped to program outcomes POs and Program Specific Outcomes (PSOs). The extent to which each CO correlates with respective PO can be expressed as low, medium or high. Collective COs for all courses in a curriculum contributes to POs and PSOs.

Course outcome attainment is measured through student performance in Continuous Internal Assessment tests, Assignments, PCE (Professional and Career Enhancement) activities, End-semester examination. Students' progress and learning outcomes are monitored through continuous evaluations, tutorials and laboratory exercises, and projects/assignments.

In addition to three Continuous assessment Tests (CAT), weekly tests, class tests are also conducted to identify students progression. Syllabus completion, Assignment, PCE activity submission are ensured before assessments. Question paper is set as per Assessment paper quality matrix (APQM) standard following Bloom Taxonomy. APQM is verified by IQAC member of the department, thereby ensuring internal assessment question papers are on par with set standard to support CO attainment.

Assessment Results are reviewed department level and also by Head of the Institution. Credits are given for PCE skill activity for course that are student centered learning activity for the course as identified by course in-charges. Suitable revision classes, coaching classes are organized to support the needy.

Student feedback regarding course flow and understanding level are made through Class committee meeting, Quality Circle meeting, Counseling sessions. Student representations are valued and necessary support is provided. Coursewise student performance is examined, analyzed and followup actions are taken towards improvement. Slow learners are given appropriate guidance and motivations through course incharges, counselors and by HoD. End-semester examination results and CAT performance based course outcome attainment, PO attainment, PSO, PEO attainment are analyzed, reviewed.

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course in the four-year engineering degree program. Course in-charges strive to help students to achieve intended course outcomes through appropriate teaching-learning-assessment strategies. Correlation is set between COs and POs and COs and PSOs on the scale of 1 to 3, 1 being the low correlation, 2 being medium correlation and 3 being high correlation. A mapping matrix of COs-POs and mapping matrix of COs-PSOs is prepared in this regard for all courses in the program. Thus, mapping matrix of COs – POs and COs - PSOs are prepared for all the courses and finally these matrices are merged to form a Program level CO-PO Matrix and CO – PSO Matrix. Student Progression to higher studies, Placement track record, Entrepreneurial records are the implication of Programme outcome attainment reflecting the Mission and Vision of the institute.

The feedback system of different stakeholders which is in place helps to measure and reckon the

attainment of the programme outcomes. Student Satisfaction Survey, exit Survey, Quality Circle meeting reports are reviewed and necessary followup actions are taken.

File Description	Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 72.53

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
206	135	244	250	362

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
211	249	434	344	442

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 9

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1.5	0.075	7.425	0	0

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 0

3.1.2.1 Number of teachers recognized as research guides

File Description	Document
Institutional data in prescribed format	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 24

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	4	0	0

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

File Description	Document
List of research projects and funding details	View Document

3.2 Innovation Ecosystem**3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge****Response:**

Institute with the objective of promoting creativity, innovation and research culture among students and staff members, provides necessary facilities and support. With the belief of instilling innovation, creativity among young minds and thereby create opportunities to contribute for solving the societal problems, efforts are taken. In this direction, in addition to academics, programmes to enrich students on recent technologies, industrial exposure and training activities, project exhibitions and contests are organized.

Institute Innovation Council (IIC) & Entrepreneurship Development Cell (EDC) are functioning to promote innovation and entrepreneurship. Formation of IIC is as per the guidelines of MHRD and AICTE. Students are encouraged to do project works that address societal problems. Students innovative works are presented at Project Expo and contests organized internally and external events. Student teams contribute towards various proposals and models that are submitted and presented for events like Smart India Hackathon, Vishwakarma Contest of AICTE, TNSCST Student Project funding schemes, TN Science fair etc.

Institute has established linkages and networks with Industries and Institutes of national importance towards knowledge and skill expansion. Programmes are organized by IIC, EDC and Research cell of the institute imparting skills among students and staff members. Research Centre facility of the institute supports research and development activities. Dynamic & highly qualified faculty team of the institute channelize the efforts of young minds and guide students for their innovation & project efforts. Research Cell of the institute motivates faculty members to prepare research projects and submit it to various funding agencies like DRDO, DST, AICTE etc. Research Cell also helps to create research culture among faculty members and students.

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 212

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
57	69	40	24	22

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards**3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years****Response:** 9.5**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years****Response:** 19**3.3.1.2 Number of teachers recognized as guides during the last five years****Response:** 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response:** 1.98**3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
34	30	60	64	74

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 2.85

3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
74	36	102	66	99

File Description	Document
List books and chapters edited volumes/ books published	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

With the educational philosophy of preparing students as responsible citizen, potential engineer with ethics and values, institute strives to provide its students an environment to learn, experience and excel in multi-dimensional attributes. Wide range of extra-curricular programmes and activities complements the institutional educational practices in grooming budding engineers. These events provide exposure to students regarding social, cultural, intellectual, recreational and entrepreneurial opportunities and challenges. These experiences enrich student minds and also helps in tapping their potential.

Inculcating the vital attitude of serving the society, establishing meaningful and sustained rapport with society & community, extension activities are promoted at the institute. Extension is a compulsory activity in the curriculum of Higher Education Institute. Extension is meant for application of acquired knowledge in the class room by the students in the real life situation.

Institution-neighborhood-community network is promoted through the following student clubs / units

- National Service Scheme (2 units)
- National Cadet Corps

- Youth Red Cross
- Red Ribbon Club
- Citizen Consumer Club
- Eco club
- Citizen Consumer Club
- Citizen club
- Health & Hygiene club

Institute motivates students participation to understand the social issues and ethical values through various programmes organized by clubs, wings and societies. Various extension and outreach activities like blood donation camp, health camps, awareness sessions, rallies, tree sapling were organized for the benefits of the neighborhood community.

All students are members of NCC/NSS/YRC/RRC/CCC/Eco Club/ Professional Societies. Dedicated faculty coordinator guides students during camps, awareness programmes, social service activities, etc. Participation in extension activity is recognized during Republic day and Independence Day celebrations. Contribution to society is also a parameter considered for the King of Kings award, the best outgoing student award.

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 3

3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	1	0	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Response: 147

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
13	25	40	18	51

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 85.17

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
767	781	918	1041	1014

File Description	Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 19

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	6	4	2	2

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 6

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	1	0	1

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document

Criterion 4 - 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 equipment etc.

Response:

The institution provides quality technical education with appropriate ambience which encourages students' participation in both curricular and co-curricular activities for which adequate infrastructure is available.

Classrooms

Well furnished and equipped classrooms with cross ventilation, lighting, black board and ICT facilities are available. There are totally 31 classrooms with comfortable furniture and proper spacing between desks. Departmentwise Smart Classroom facilities provide enriched teaching-learning experience among learners.

Technology Enabled Learning Spaces

Aesthetically built, acoustically treated and air-conditioned state-of-the-art Audio-Visual Halls with internet facility, is a hub of all intellectual activities.

1. Pallava Hall with seating capacity of 100 to house seminars and workshops.
2. Chera Hall with seating capacity of 300 to house workshops & conferences.
3. AV Hall with seating capacity of 200 to house conferences, workshops, seminars
4. Chozha Hall (Indoor Auditorium) that houses programmes like Induction Day, College Day, Graduation Day with seating capacity of 1500.

Seminar Halls

- Air-Conditioned Seminar Hall to support Seminar sessions, Guest Lectures, Student Presentations etc. is available.

Tutorial Spaces

- To Provide structured learning sessions in terms of Tutorials, exclusive spaces are available for each departments. Totally there are 12 tutorial spaces.

Laboratories

- Institution has established well-equipped laboratories that provides controlled conditions in which experiments are performed. There are totally 67 laboratories and 2 drawing halls. It includes Engineering laboratories for both UG & PG programmes, Physics, Chemistry, and Language laboratories.

Specialized Facilities

- Anna University Approved Research Centre for Mechanical, Electronics & Communication Engineering, Electrical and Electronics Engineering Departments.
- Research lab facility in association with Texas Instruments.
- Power house offering uninterrupted power supply to the campus

Equipment For Teaching, Learning And Research

- Wi-Fi Zone providing, 867+300 (Dual) MBps bandwidth, covers the entire campus including hostels.
- Dedicated internet lab is available for students and the students can utilize the lab during internet hour.
- Department level Library with good stocking of text books, manuscripts, project reports, educational CDs etc.
- Language Lab utilizes Globerena software to support soft skill training for all third year students.
- E-Learning facility is available at central library.

File Description	Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

The Institute has provided adequate resources and infrastructure for Extra-curricular activities.

Sports

- Qualified & experienced sports instructor train the students on various games regularly. Apart from that, special coach for games like Kabaddi, Basket Ball and Volleyball, are appointed to train the students.
- Annual Sports meet is conducted every year. Various competitions are organized encouraging active student participation. Trophy for the winning house and individual championships are awarded.
- Budget provision for promotion of Sports is made every year.
- TIES - Tamilnadu Inter Engineering Sports Meet was hosted during 2011 by our Institution. By virtue of number of participants, TIES is the South Asia's biggest event.

NSS

- 2 NSS Units with active student volunteers is operating under the guidance of NSS Programme Officer. With Institutional Societal Responsibility, the NSS Unit organizes various programme every year which includes Awareness camps, Service camps to Local Villages and Old age home, Plantation of trees, Educational camps to local community and offering donations to the needy.

NCC

NCC Air Force Wing encourages cadets to the nation's aviation activities. Activities are conducted regularly under the direction of NCC Cadet Officer.

Cultural Activities

- An enthusiastic Fine Arts Association (FAA) takes care of conducting the competition and staging the cultural activities. Students cultural festivals (Sangamam, Muthamizh Mantram, Teacher's day celebration) are conducted by FAA.

Public Speaking

- Various activities are organized encouraging leadership skills and public speaking abilities among students., Intra Department Paper Presentation, Daily NEWS reading sessions, Group Discussion sessions, Master of ceremony by students, Student CHANGE Club (SCC) activities, Association Activities such as Quiz and Debate, Departmental / Institutional level seminar/conference/workshop, PEAK hour are organized regularly.

Communication Skills Development

- Soft Skill Training Programme by Internal and External experts are organized periodically. Exclusive Language Laboratory with appropriate software to train students on Communication and languages skills functions actively.

Yoga

- Yoga learning facility is available for students, faculty and other staff. Yoga camps are organized periodically for betterment.

File Description	Document
Upload any additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 63.89

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 23

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**Response:** 17.51**4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
6.43	180.11	41.63	59.39	72.67

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document

4.2 Library as a Learning Resource**4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

Library automation using MTS-Libman software v2.3:

- Accession of Books, Back Volumes, CDs and DVDs
- Members Entry, Book Issue and Return process
- OPAC facility for bibliographical search of books and all reading materials in the library
- Stock Verification and Auditing of books.
- Librarian can verify the Most Active And Least Active members
- Members can verify their transactions and book search.
- The library has an Institutional Membership with DELNET and British Council Library.

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership

- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 3.62

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
2.16	4.04	4.55	3.69	3.64

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e-journals during the last five years (Data Template)	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

Response: 13.61

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 120

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

A total number of 507 computers are available for use by faculty and students. All LAN connected systems

can gain access to internet facility. Campus is Wi-Fi enabled providing internet connection to portable devices at Wi-Fi zones. KINGS ERP can be accessed off-campus by the faculty members.

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 1:1

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 82.49

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
91.36	235.59	312.44	313.43	656.59

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document

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

Response:

Infrastructure, Facilities Maintenance

A maintenance register is being kept in the office of the administration block. All complaints and recommendations registered are being checked and processed by the Technical Officer with the approval of the Principal to ensure proper establishments. Periodical maintenance schedule is also followed.

Equipment Maintenance

- Periodically, all the labs and facility of the department are checked for smooth conduct of the laboratory classes. Laboratory in-charge and technical staff ensure functioning of equipments. AMC procedure is also followed for maintenance.
- Annual stock verification procedures end up with summary on equipments to be maintained / serviced / condemned. Laboratory in-charge under the directions of HoD, ensure completion of the work and the equipments are intact before the semester commences.

Mechanism for Maintenance and upkeep of IT infrastructure facilities includes

- Maintenance of IT and related products are made by vendors during the warranty period. On Expiry, self service is made by the In-house maintenance team.
- Machine history register tracks the functionality / service need for the machines. It is addressed immediately by the team.
- Need based AMC procedure is also followed.

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 24.45

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
248	241	304	197	269

File Description	Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 17.88

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
178	107	213	245	227

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: B. 3 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 55.64

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
660	700	685	241	389

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 39.76

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
78	85	159	223	118

File Description	Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 19.43

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 41

File Description	Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 11.7

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	2	6	1

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
7	13	32	50	25

File Description

Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)

Document

[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 44

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1	5	25	3	10

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

Institute has various academic and administrative bodies that have student representatives on them. This representation helps them for their overall development and gives valuable inputs for institutional growth. These bodies create more avenues for students to develop technical skill, updating knowledge, personality developments and to serve the society. Staff advisers guide students for the smooth functioning of these bodies.

Academic and administrative committees formed are:

1. Class Committee
2. Red Ribbon Club
3. Anti Ragging Committee
4. Student CHANGE Club
5. Student Quality Circle
6. Eco Club
7. Transport Committee
8. Fine Arts Association
9. Citizen Consumer Club
10. Library Committee
11. Department Associations
12. Placement Committee
13. Hostel Committee

14. Women's Cell

15. Quality Circle

Professional Societies

1. Indian Society for Technical Education (ISTE)
2. The Institution of Engineers (IE(I))
3. Institute of Electrical and Electronics Engineers (IEEE)

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 11

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	5	17	14	18

File Description	Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The KINGS Alumni Association aims to connect the alumni to the institution, develop synergistic plans to support the institution and achieve its vision by adding value to all its stakeholders. Our Alumni association is registered under the Tamil Nadu Societies Registration Act, 1975 (Tamilnadu Act 27 of 1975) in the name of "Kings Munnaal Manavargal Sangam " on 19th November, 2007.

Alumni association interacts and networks with KCE alumnus and promote the interests of the institute.

Main objective of Alumni association is

- To promote and foster mutually beneficial interaction among alumni and with juniors
- To encourage the promotion of chapters as a means to increase participation of Alumni
- To promote rewards and responsibilities towards life long networking with the institute
- To raise fund for the institute and support academic initiatives
- To strengthen ties between the Institute and alumni and encourage them to participate in various cultural and social activities.

Financial Contribution: The alumni association supports the activities by extending financial support to the students as well as the Institution. From the contribution of alumni, a significant amount of money was spent towards welfare of KCE students and academic initiatives.

Non-Financial Contribution: It also serves as a forum for the alumni for sharing industrial experiences and exchange of ideas on academic, cultural and social issues of the day through the alumni lecture series being conducted by various departments at regular intervals.

61 interactions were held in various departments with their alumni to foster academic, industrial and cultural issues thus resulted the conduct of curricular and co-curricular activities. Alumni also contributes to employability opportunities. Frequent Alumni Lectures are arranged by respective department for the benefit of students and the alumni

extend their help for current career opportunities, Placement and industrial training required at the engineering fields. The alumni support the institution and contribute to its institutional, academic and development.

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: D. 1 Lakhs - 3 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

VISION

To impart globally competitive technical education, enhance human values and to provide a research atmosphere to the socially challenged aspirants.

MISSION

Providing a comprehensive theoretical foundation, inculcating state of art engineering practices and cutting edge research ambience that lead to societal upliftment with ethical values through effective teaching – learning methodologies and appropriate Information Communication tools via dedicated faculty to the aspirants.

Transformation and growth of an individual will contribute to the growth of the society. Institution strives for achieving academic excellence and all-round development of its students instilling in them the spirit of scientific temper by its committed team.

Our roadmap to reach the Vision of the Institute focuses on

- Offering Structured directions in Teaching to enable student learning. Teaching practices facilitates students to realize engineering in simplified manner.
- Execution of Strategy that provides ample opportunity to explore application of technology inculcating professional skills producing well-groomed engineers.
- Emphasis to sensitize values in the minds of the student with intention of serving the society in a better manner.

With the vision to promote Quality Technical Education to the socially challenged aspirants and produce competent Engineering professionals applying knowledge in the process of developing the nation, Institution has set its Mission.

Management entrusts the Principal and various academic Heads to shoulder the responsibilities in fixing strategy for all academic activities. Principal in consultation with the Management ensures the creation of right ambience to its intellectuals to achieve its academic goals. Departments and Committees for various activities executes their responsibilities vested in them.

- Highly committed Management with a dedication in offering technical education to socially challenged aspirants ensures establishment of necessary infrastructural facilities at the campus. Management interacts with the Head of the Institution and gives freedom in arriving operational strategies for academic routines. Management also reviews academic outcome, stakeholder interaction reports, if needed.

- Principal facilitates coordination and cooperation from the faculty and students in executing academic routines by adopting a policy of participative management and acts as the driving force for effective implementation.
- As the Chairperson of Staff Council, Principal guides the members by providing the necessary guidelines and clarifications required for taking well informed decisions in all matters including quality improvement and assurance.
- Strategies, Guidance, Objectives for all Institutional activities are derived / set under the purview of Principal.
- Monitoring and Reviewing of all activities is also carried out and necessary steps for ensuring progress are made under the guidance of Principal.

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

Decentralization

The Principal is empowered to plan and execute academic routines and makes available means to achieve desired results. The Heads of Departments are taken into confidence by the Principal and given freedom to administer their respective department. Decentralized top-down disbursement of responsibilities, entrusting effective functioning giving equal opportunities to the individuals on turn basis is followed. Faculty are encouraged to hold responsible role in the academic structure as Coordinator for various activities. Few excerpts on responsibilities assigned are: Academic Coordinators, DRC Convener, IQAC Coordinator, Course Coordinator etc.

- Effectiveness and efficiency of the institutional process starting from the Higher Level Authorities, through Head of the Institution, involves staff members and students in various activities aiming the institutions growth. With the interest in strengthening competence of faculty and students, Institution has its tradition to groom the individuals. Constitution of various committee at Institutional level, Department level, Student level has resulted in empowerment of individuals
- Pertaining to the scope of the entire institution, various positions like Dean (R&D), CoE, T&P Officer, Academic Co-ordinator, Project Officer, PTA Vice-President, Alumni Vice-President, FAA Vice-President etc. are into operation.

Department Level

- HoDs are empowered to execute academic activities of the concerned department.
- Academic programmes are planned and organized under the guidance of HoD.
- Faculty members are appointed as conveners/co-conveners/coordinators.
- Committees which perform their tasks independently, have a judicious mix of senior and junior faculty which helps the latter to gain requisite experience.
- Faculty are encouraged to organize seminars, workshops and other technical events of the department.

Student level

- Students are given opportunity to lead various committee like Student Associations, Technical Clubs, Students CHANGE Club (SCC), Class Committee (CC), Transport Committee etc.
- The cells/clubs/associations have student office-bearers (viz. Vice-President, Secretary and Treasurer).
- Students are also provided opportunities to organize programmes through student association/cells/clubs whereby they acquire skills, experience, expertise and self-confidence.

Participative Management

- Culture of participative management is proactively promoted by the institution. The top leadership invites suggestions, incorporates them and gives autonomy to the faculty members and staff to perform their duties. At the same time, necessary review, audits are carried out.
- The Management gives suggestions on various aspects on the basis of Principal's report and Stakeholder interactions. These suggestions are communicated to the teaching and non-teaching staff members and ensured for its completion by the Principal. Principal assigns specific duties to various academic and administrative bodies of the College.
- Heads of the Department are given operational autonomy to carry out departmental routines and thereby contribute in overall growth of the department. Each staff member is assigned with one or more responsibilities. Thus the work culture is set among the individuals, improved by decentralized administration

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The leadership steers its operations through well defined action plans justifying the goals of the mission

statement by inspirations and motivations. Leadership has ensured attainment of the stated mission through appropriate guidance, monitoring and review process. Structured mechanism and approaches for effective teaching-learning process thereby instilling quality education to the learners is ascertained. Competency building promoting Co-Curricular and Extra-Curricular activities honing the required skills among student community is taken care. With the purview of Objective of the institution, target and schedule is set at the beginning of every academic year for the departments and committee. Encouragement and motivations are provided at all stages for implementation. Operational issues and outcome analysis for every stages will be addressed at Staff council meet. Based on the interactions & inputs, suitable corrective measures are proposed and implemented. Periodical review and academic audits are carried out to ensure completion of the activities and thereby ensuring progress. Academic calendar and guidelines for activities acts as the operational framework for the routines.

Activity : Formulation of action plan for Departments/ Units / Wings towards Progression

With the objective of improving accomplishments in academics and thereby achieve overall progression, action plan for every year is set by all departments, units, wings etc. Action plan is set for every academic year, reviewed periodically and set objectives are met.

Department level action plan includes curricular, co-curricular, extra-curricular activities with timeline and in-charges. HoD and department members supports the execution of planned activities.

Plan of action devised by Internal Quality Assurance Cell aims and yearly quality assurance & sustainability initiatives covering wider aspects.

Research & Development Centre sets plan of action towards promoting innovation & research culture among staff and students. Institute Innovation Council & EDC contributes towards instilling creativity and organizes events to enrich staff and students.

Professional Societies & Clubs with the objective of networking & promoting student skills schedules various events. Student members actively participate and exhibits their talents.

Outcome

- 1.Department level : Systematic execution of events resulting in progression & achievements**
- 2.IQAC : Progression in institute level major initiatives spanning academics, networking etc.**
- 3.R& D Centre : Promotion of research & innovation among staff & students exhibited through publications, proposal submission, participation in contest & events**
- 4.Professional societies & clubs : Promotion of student participation & skills**

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

Response:

The Institution ensures effective implementation of governance, administrative functions, policy,

guidelines, service rules for employment at all functional level. Steered by Managing Trustee, guided by Head of the Institute, ably coordinated by Heads of Departments institutional strategies are set to align and achieve institutional mission and vision.

Staff Council members (SCM) take decisions regarding the academic affairs of the institution. Decisions regarding academic routines, practices, follow-up against stakeholder interactions are made at SCM. Head of the institute as the Chairperson suggests recommends to the management regarding student and staff progression. Head of the institute takes utmost care for the smooth functioning of the academic system and enhances the standards of education by providing an outstanding, creative and participative learning environment in the institution.

HoDs are responsible for executing the Academic Plan of the department as per the department target for the semester & year. HoDs take decisions concerning department affairs. Faculty takes up positions viz. Academic Coordinators, Course Mentors, Course Coordinators and Faculty mentors. Addressing the student needs, faculty members take efforts towards curriculum delivery and student overall development. Collectively all members takes efforts towards transaction of all efforts results in quality engineers.

Administrative officer takes decisions regarding the entire administrative affairs of the institution. Training and Placement department strives towards training students on employability skills and network with industries towards placement opportunities. Librarian is responsible for acquisition and provision of library resources and ensures it to meet the needs of all its users.

IQAC initiate, plan and reviews various activities that are necessary to increase the quality of the education imparted at the institute

File Description	Document
Upload any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Institution extends various welfare schemes for the benefit of Teaching and Non-teaching staff members. Sabbatical leave, Medical leave, Maternity leave, Earn leave for administrative staff, Fee concession for Teaching and Non-Teaching staffs wards, Free transport, PF, Encashment of earned leaves for non-teaching and Accident insurance are provided.

Welfare scheme for Teaching Staff

- Partial assistance for Professional society membership
- Medical leave / maternity leave
- OD support for pursuing higher education & research
- Group Insurance

Welfare scheme for Non-Teaching Staff

- Free education for ward of the employees
- Medical leave / maternity leave
- Free transport facility
- OD support for pursuing higher education
- Group Insurance

Teaching faculty and support staff feedback on institutional practices and welfare is collected and reviewed. Feedback is collected annually and reviewed. Feedback report and analysis shows staff welfare and progression are being encouraged at the institute

Teaching staff feedback includes the following parameters.

- scope for skill and knowledge enhancement
- provision for new technologies
- conducive work environment
- work load
- encouragement for participative management
- promotion of research

Non Teaching staff feedback includes the following parameters.

- working environment
- scope for skill enrichment/higher studies support
- support system
- welfare measures

File Description	Document
Upload any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 1.93

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
8	5	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 41.2

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
88	41	32	26	19

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation /

Induction Programmes, Refresher Course, Short Term Course).**Response:** 60.69**6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
134	135	61	32	42

File Description	Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**Response:****Performance appraisal for Teaching staff**

The institution assesses its faculty through a well structured appraisal system collecting responses from Students, Individuals and HOD

- Staff Assessment Review (SAR) -Faculty Self-Appraisal is made by faculty to examine instructional work load, responsibilities held, publication details, sponsored project work execution, consultancy works, awards and achievements, participation in various programmes. This exercise helps faculty to locate areas progressed and that need to be strengthened. Process is purview of Staff & HOD concerned.
- HoD observes the preparedness and execution of assigned faculty roles as per guidelines. Suitable motivations are made by HoD to help faculty to execute assigned tasks. HOD engages in appraising the contributions made by the faculty and records potentials, commitment shown by the faculty. HOD Appraisal is used for the purpose and findings are forwarded to the observation of the Principal.
- A feedback obtained from the students, Staff Performance Appraisal gives further inputs regarding the effectiveness of the teaching learning methodologies made by faculty every semester. Appraisal reports are shared among faculty members to understand their credits. Suitable suggestions are made by authorities for betterment.
- Staff members also provide feedback on Institutional strategies and support.
- Periodical Academic Audits are conducted to ensure completion of assigned tasks by faculty members.

Performance appraisal for Non-Teaching staff

Responsibilities and commitment of non-teaching staff members are made to guide and motivate support

staffs.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal and external audits are carried out on the financial transactions every year.

Process of the internal audit:

Internal audit is conducted half yearly by the Head Office of the trust. The expenditure incurred under different heads are thoroughly checked by verifying the bills and vouchers. If any difference is found, the same is brought to the notice of the Management and appropriate actions are taken.

Process of the external audit:

External audit is conducted every year by an external agency. The external auditor verifies all transactions and prepare balance sheet.

The mechanism used to check the effective use of financial resources:

Before the commencement of every financial year, principal seeks budget proposal from the departments. The head of the departments based on the requirements of academic and physical facilities for the forthcoming year, shall call for quotations from vendors for the physical facilities required, if any. After scrutinizing the requirements submitted by the head of the department, Principal consolidates all the department proposals and submits the overall budget to the Secretary. The budget includes recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, consumable charges and non-recurring expenses like lab equipment purchases, furniture and other development expenses. After the approval from management, the purchase committee recommends the vendors for purchase after negotiations. The expenditure will be monitored by the accounts department as per the budget allocated by the management.

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 1149

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	217	419	250	263

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

Mobilisation of funds:

- Being a self-financed institution, major source of revenue is Tuition Fees.
- Institution gets term and hire purchase loans for infrastructure establishments. The loans are availed through Raj Educational Trust.
- Funds through CSR from industry are received for institutional activities. Proposals seeking grant-in-aid for establishment of new academic facilities, doing research projects / student projects and for conducting programmes are regularly submitted to various government and other agencies such as AICTE ,DST, TNSCST etc. and professional societies.

Optimal Utilisation:

Recurring expenditure:

Staff salary, expenses for academic activities and payments to bank are made using fees collection.

Infrastructure establishment:

Budget for infrastructure establishments and upgradation is allocated by the management. Bank loans and CSR funds from industry are utilized for this purpose.

Students and staff skill development programmes:

The institute regularly organizes seminars, conferences faculty development programmes , co-curricular activities matching with latest technologies

Research and other academic activities:

A significant number of projects funded by various government and non-government funding sectors namely DRDO New Delhi, MOCIT New Delhi, TNSCST Chennai, AICTE New Delhi, Texas Instruments, USA, Analog devices, USA are successfully carried out.

Extra-curricular activities:

Funds are allotted for enhancing sport facilities for conducting sports to encourage student participation NSS, NCC, YRC, RRC and other extracurricular activities.

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

PRACTICE 1: ACADEMIC TARGET & PROGRESSION TRACKING

Department Target and Progression Tracking

Analyzing the attainment & accomplishments made during latest completed academic year, Departments set target that includes the following vital parameters for the forthcoming academic year.

- Academic results
- Technical events
- Research & Development Initiatives
- Initiatives towards linkages and MoUs

Academic target for departments drives the academic routines and review on attainment are made at appropriate stages. Suitable remedial measures are taken towards student support for academic results. Staff and student project initiatives, proposals towards research and funded programmes, publications efforts are included at department level target. Staff and student enrichments, certification efforts are also planned. Target towards linkages and networking initiatives are also included at department target. Suitable planning and execution are made by respective in-charges. Review by HoD and Head of the institution are made periodically. Department target & attainment analysis ensures progressions in all dimensions.

Launch of Programme Advisory Committee

The Programme Advisory Committee (PAC) is constituted with the goal of incorporating necessary components in the *Curriculum Implementation*, *Programme Assessment*, *Quality Improvement* and *Overall Development* of the Department.

Composition as follows

- Academic Experts from IIT / NIT/ reputed higher learning institutes
- Industry experts
- Alumni
- Professional society member
- Head of the Department

- Programme Coordinator

Every department has got consent from experts from NIT, Industries and members from Alumni, Professional society. Our network has widened and efforts are taken towards establishing rapport with the identified members by every department. External expert level review and suggestions are utilized towards progression.

Yearly Activity Summary

Yearly activity summary is prepared and reviewed at Staff council meeting and department level meetings. Review helps in attainment analysis and supports future directions.

PRACTICE 2: ENRICHED TEACHING-LEARNING EFFORTS

Systematic approaches towards enriching students with content beyond curriculum and to offer recent technologies, skills among students efforts are taken. Slots for offering these courses are planned well ahead and included at regular time-table. Staff In-charges ensure students are utilizing these courses / certification efforts.

Custom Designed Value Added Courses

Custom designed Value Added Courses(VAC) are offered to pre-final year students. These VAC are approved by Anna University and included at AU website as approved VAC list. These courses are offered beyond the credit limit and included at AU certificate.

Staff and student enrolment and MOOC completion

Staff and students are encouraged to enroll for SWAYAM/NPTEL courses. The trend of enrolment and completion is increasing.

FOOS certifications

In association with IITB, FOSS training is offered to II, III and IV year students. Every year, 2 courses are offered.

Quality training programmes

Enriching teaching faculty members, efforts are taken periodically by organizing sessions on quality.

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

The collective effort committed towards congregating our Vision, Mission and Objective has resulted in innovations. Deployed innovations that have created significant impact in TLP.

IQAC reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through the following mechanism.

REVIEW PROCESS ON TEACHING LEARNING PROCESS

Innovations in TLP with appropriate usage of ICT and student centric strategies considering stakeholder feedback have resulted in progression with the encouragement for such initiative. IQAC ensures TLP processes are made as per guidelines and objective of the activity is met.

PROCESS 1 : TEACHING LEARNING PROCESS FEEDBACK BY STUDENTS**Student feedback on TLP**

- **Staff Performance Appraisal** (Faculty level feedback) is conducted every semester to examine effectiveness of course delivery. Based on the feedback, necessary steps for improvement are initiated. **Class committee meeting** members comprising slow, average, fast learner category voice the views of the entire class about courses, practices adopted. Issues raised will be addressed immediately.

Quality Circle Meeting

- Student members comprising advanced and slow learner are interacted during quality circle meeting. All academic related matters, support system, facilities related student representations are invited during this meeting. Representations made by students are presented at Staff council meeting and to the management. Appropriate remedial measures are taken to ensure student matters are addressed.

Exit Survey

- In addition to Class-Committee meeting, faculty advisor interaction with students and other student meetings, exit survey is also made. Final year students during VIII semester end participate in this

survey. Questionnaire about Infrastructural facilities, Teaching-learning assessment practices are included. Specific recommendations related to TLP is also recorded by students during this survey. Exit survey report is reviewed and analyzed during SCM and presented to management.

PROCESS 2: SYSTEMATIC REVIEWS ON TEACHING LEARNING PROCESS

Structured review mechanism is incorporated at the institute to ensure curriculum delivery is made as per course plan and schedule.

Syllabus Completion Review

Consolidated report on syllabus coverage before every assessment, Internal assessment reports (classwise) are reviewed by HoD & Head Principal. Steps for improvements will be suggested and adopted.

PCE-Professional and Career Enhancement activity review

Promoting student centric learning , PCE activities are mandated for courses. Students undergo these activities for all courses and credits are given at internal assessment. Innovative PCE activity supports students skill, knowledge widening and is reviewed for its completion.

Course Plan structure & inclusions

Course plan structure incorporates various parameters that serves as guidelines to faculty and students. Course plan includes course outcome, resources, methodology, content beyond syllabus, inclusion of ICT sessions etc. Academic calendar includes timeline for all activities. As per activity deadline, reviews are made to ensure completeness and objective attainment.

ICT Promotion

Course plan structure mandates promotion of ICT based learning incorporating PPTs, NPTEL sessions, Video sessions, Web resources etc. Simulations, Virtual lab based learning are also made for suitable courses. Promotion of ICT gives enriched learning experiences among students. Video sessions by Faculty members are also made. Review on course plan, learning material ensures enriched learning experiences.

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO**

Certification, NBA)**Response:** B. 3 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document

NAAC

Criterion 7 - 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 last five years.

Response:

To facilitate congenial campus environment at KCE so that no one in the campus is subjected to gender specific discrimination, institutional strategies are set. Various efforts are taken to ensure that the safety, dignity of the female students and faculty members are maintained. Women's Cell, POSH Cell is constituted to sensitize and promote gender equity among girl students and female faculty. Women's cell aims to prepare girl students to be self-reliant, excel in their chosen career, continue higher education, socially responsible through series of programme and interactions. Awareness programmes and women empowerment programmes are organized periodically. Students of both gender are given equal opportunities to participate in various events and hold various roles of students. Institute make efforts to maintain gender balance among staff and student members.

Women's Cell of the institute functions with the following objectives

- To promote harmonious environment and empower girl students and female faculty members
- To develop self-confidence
- To create social awareness about the problems of women and in particular regarding gender discrimination
- To create awareness about women health and hygiene
- To guide about women roles in family and society
- To promote general well-being

Gender equity initiatives are confirmed in the following areas related to staff members

- Recruitment, promotion and tenure
- Professional and leadership development
- Equal opportunity for various roles

Gender equity initiatives are witnessed in the following areas related to student members

- Girl student enrolment & success ratio
- Participation in curricular, co-curricular, extra-curricular activities
- Roles and responsibilities held at student association, clubs, units etc.

Major activities promoted by Women's cell are

- Gender sensitization seminars
- Awareness programmes on women rights, laws
- Women empowerment programmes
- Women Success stories

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: B. 3 of the above

File Description	Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

Our institution has deep concern to protect the environment, health and well-being through implementation of effective waste management practices such as segregation, recycling, and composting. Awakening to control 'throw-away' life style and grow consciousness of generating less waste among students, staff members measures are taken. The primary focus is to reduce, reuse and recycle the waste.

There are different types of wastes disposed in the college for which there is a proper system functioning.

The following waste management techniques are being adopted:

- Solid waste management
- Liquid waste management

Solid Waste Management

The campus has implemented a well-developed waste management system successfully and facilitates several techniques for the management of solid waste. For solid waste management different bins have been placed at different places throughout the campus to segregate the wastes as degradable

and non degradable. This ensures the segregation of solid waste at the site of generation. Every day the waste is collected in bins and disposed to a place where it can be converted into manure.

Solid waste like food waste, plant debris, paper waste, e-waste and plastic waste are possibly segregated by trash bins, placed in and around the entire campus. The trash bins are differently coloured to represent a particular type of waste. The college consists of a considerably large compost pit and the segregated wet wastes are dumped in that pit. Manure obtained from this process is used for the flora of the college.

In addition to this, the institution has created awareness at all levels for the implementation of solid waste management techniques effectively. Also our NSS students and ECO Club volunteers educate everyone in the campus from time to time about the methodology of disposing the waste and importance of solid waste management. It was stressed among students, staffs and all others that we should avoid plastic items to the best possible capacity and encouraged for the use of utensils made of glass and metal.

Liquid waste management

A well established sustainable liquid waste treatment is adopted in campus. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks.

Rain water Harvesting in the Campus

There is great demand for water in an Engineering college for various purposes like drinking, canteen, toilets, laboratory, and gardening. The college has implemented rainwater harvesting (RWH) within its campus for storage and reuse. By this, the ground water level is maintained to an extent will help in saving lakhs of rupees every year.

In the Kings Campus, 23 rainwater harvesting systems have been installed throughout in Block I, Block II, Block III, Block IV, and Boys & Girls Hostel. The roof runoff water is collected through network of pipelines and stored in the bore wells. The remaining roof runoff water is allowed to infiltrate in the ground for recharge.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document

7.1.4 Water conservation facilities available in the Institution:

- 1.Rain water harvesting**
- 2.Borewell /Open well recharge**

3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: B. 3 of the above

File Description	Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: Any 4 or All of the above

File Description	Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.

- 2.Disabled-friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Link for any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Our institution has always been at the forefront of sensitizing students to the cultural, regional, linguistic communal and socioeconomic diversities of the state and the nation.

We strongly believe in unity in diversity that's why our students respect the different religion, language and culture. Everybody have a feeling that college is their second home and all are treated as Kings family without any discrimination. We greet and wish each other at different festivals and invite them to have a feast to get introduced with ones culture, to have amicable relations and to maintain the religious, social and communal harmony.

Similarly our students also celebrate the different festivals with joy and enthusiasm which help them to implant the social and religious harmony.

The College always encourages the students to organize and participate in different programmes organized by college, inter-college, university and other Government or nongovernment organization to make them sensitize towards cultural, regional, linguistic, communal and socio economic diversities.

Holy Books Reading in Student Change club Category of the programme: Communal/religious diversity and harmony

To ensure religious harmony among students, the college organizes Holy Books Reading every week. The Bible, Quran, and Bhagavat Gita, the three Holy books and Thirukkural are read by students.

On account of showing respect to the rituals for all the religions ,need based provisions were given. For example, on every Friday, Muslim students were given a facility to do their namaz within the college campus.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

KINGS undertakes different initiatives by organizing various activities by different clubs functioning in the college to sensitize students and employees to the constitutional obligations. We achieve the above with the help of the following clubs functioning in our college .

- NSS
- NCC
- CCC
- YRC
- Women's Cell & Gender Sensitization Cell
- ECO Club
- SCC
- Extension activities by faculty of Kings College of Engineering to the society and school students

Through the various clubs we equip the students with the knowledge, skill, and values that are necessary for sustaining one's balance between a livelihood and life by providing an effective, supportive, safe, accessible, and affordable learning environment. These elements are inculcated in the value system of the college community.

The students are inspired by participating in various programs on culture, traditions, values, duties, and responsibilities by prominent people in their respective fields . The institute conducted various awareness programmes to inculcate their roles , responsibilities ,values and ethics.

The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules.

All the first year students will undergo sessions on Universal Human Values as a small step to inculcate moral values among the students.

Major Initiative during last five years

NSS & NCC

- Awareness Programme on Covid-19 and Social Distancing
- One Day Programme on Yoga For Students
- One Student One Tree Programme

- Awareness on Organ Donation - Marathon
- Volunteer Service to Maha Kumbabishekam Festival - Brahadeeswarar Temple
- Blood Donation Camp
- Legal Awareness Programme-Family Welfare Laws
- Road Safety Awareness Programme
- Clean Kings! Green Kings!
- Fit India Freedom Run 2.0
- Tree Plantation Camp

CITIZEN CONSUMER CLUB

- Consumer Rights and Obligations
- Consumer Awareness
- Women Self Help Group Stall

WOMEN'S CELL & GENDER SENSITIZATION CELL

- Gender Sensitization
- Women's Role in the Society

MOTIVATION PROGRAM & OTHERS

- Covid'19 Relief Material Distribution
- Gaja Cyclone Relief
- Motivational Programme and Guest Lecture to School Students

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1.The Code of Conduct is displayed on the website**
- 2.There is a committee to monitor adherence to the Code of Conduct**
- 3.Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4.Annual awareness programmes on Code of Conduct are organized**

Response: A. All of the above

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

The College makes tremendous efforts in celebrating the national and international days, events and festivals throughout the year. It is an integral part of learning and building a strong cultural belief in a student.

The events and festivals organized at college are often celebrated with great pomp and gaiety. Therefore our college celebrates & organizes the birth anniversaries of national heroes and important Days.

The college also believes that education will allow the students to bloom, blossom, giving them the right platform where they will work towards becoming a responsible citizen.

The Faculty, Staff and Students of the institution all come together under one umbrella to celebrate these occasions and spread the message of Unity, Peace, Love and Happiness throughout.

Republic day- The institution celebrates Republic day on 26th January every year, commemorating the adoption of Indian constitution. This is a day to remind the students about the constitution of the country and the need to abide by it at all times. The celebration includes the national flag hoisting and a warm message of nationalism in a speech by the superiors of the institution .

Independence Day is celebrated every year on 15th of August, parades and flag hoisting is

organized and is celebrated to mark freedom of India from British rule. The institution encourages students to remember our national leaders and their sacrifices.

International Yoga day is celebrated on 21st June every year. The yoga camp / speech/demo session is conducted to make everyone aware on how Yoga embodies unity of mind and body; thought and action; restraint and fulfillment.

Teachers Day is celebrated to mark the birth anniversary of Dr Sarvepalli Radhakrishnan. From giving us a purpose to setting us up as successful citizens of the world, teachers inspire in us a drive to do well and succeed in life . To recognize this hard work of our gurus, Teachers' Day is celebrated in our college. Various competitions are organized for the staff members through the FAA association and winners are awarded.

Engineer's day is observed on 15th September consistently as an exceptional tribute to the best Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya .

International Women's Day was celebrated in the college on 8th March. This day celebrates the achievements of women and also promises gender equality. On this day, different activities like speech competition, poem recitation, debate etc. were organized in the college. A women excelling in her profession will be invited every year to share her experiences and to motivate the women students.

World Students Day is celebrated on October 15 of every year as World Students' Day to honour the former Indian president APJ Abdul Kalam. During that day students were given an awareness talk about the efforts of Kalam towards education , his strong faith in students and the visionary of him.

All these activities of celebrations have become instrumental and helps in building today's youth.

Importance of national festivals and events preach them and remind them about our country's cultural heritage and history.

File Description	Document
Link for Geotagged photographs of some of the events	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and under-privileged students of this region. KCE has been started during 2001 and run by Raj Educational Trust (RET). The motto of the institution is **“Seek, Strive, Succeed”**. Situated on the Thanjavur-Pudukkottai Highway, KCE campus spreads over 50 acres in a beautiful serene atmosphere ideally suited for technical education. The infrastructure and facilities available in our campus are amongst very best which has made it as one of the most sought after college in this region.

Being rural located institution with diverse group of students varying in potential and committed to provide better career opportunities, various efforts are taken towards student progression. Around 45-50% of students belong to **First Graduate (FG)** category. With a commitment to raise the student skills and enhance their career opportunities, regular interactions with industries are initiated by inviting the Industry personnel's for various technical events. To overcome the challenges and to attain the objective, efforts are taken towards improving industrial interactions. Periodical reviews on Industrial/Experiential learning are examined in staff council meeting.

Teaching Learning strategies of the institution is set to offer enhanced technical education augmented by suitable skill enhancement initiatives of the learners. **Team of dedicated, experienced and well qualified faculty members** supported by other staff members formulate the attainment of educational objectives possible. Track record on faculty qualified with Ph.D, pursuing Ph.D and all faculty members with Masters Degree assures quality education to the learners.

In addition, to expose faculty members with industrial practices and expectations by means of **“Training to the Trainer”**, FVFS scheme is practiced. Faculty members visit various industries to acquire practical knowledge and upgrade to the recent trends adopted in the industries. Faculty members disseminate the knowledge gained during their visits and by appropriate mapping to course topics or content beyond syllabus component. FVFS schemes paves way for interactions with industrial personnel thereby linkages for academic support is established.

Laboratories with cutting edge facilities which provide optimum exposure to students are one among the special features to ensure our vision. The institution provides computing facility with more than 600 systems. **Internet connectivity** supporting 50 Mbps and Wi-Fi facility is available throughout the campus.

Central library houses 26,338 volumes of books is one of the biggest libraries in the surrounding. Online journals and back volumes are available in both hard and soft copy. DELNET facility is availed enabling National Level Digital sharing experience.

Regular time-table incorporates the skill enhancement practices Project work, GATE & Competitive exam coaching, T&P training and SWAYAM. Student Change Club meet is conducted regularly as per day order of the department. Professional society activities are conducted as per action plan semester wise. Student feedback for these practices shows the effectiveness of the activities. Industrial visits are important for student undergoing professional degree. IHT, IV and Internship are made mandatory to give insight into industrial environment. Some students have undergone online internships during this period, due to this pandemic situation. With an aim to go beyond academics, industrial visit provides students a practical perspective on the world of work.

The R&D section of the Institution has created its own impact on the Research & Development activities instilling research ambience and culture among faculty and students. The Departments of Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering are **recognized Research centers of Anna University**, Chennai. KINGS received funds from various government funding agencies like DST, TNSCST, AICTE etc., for its research proposals and projects.

The Institution operates a Grievance Redressal Cell. Students shall approach the cell to voice their grievances regarding academic matter and general service. The cell encourages the students to convey their grievances freely and frankly. Issues that require Management attention is conveyed immediately. A Suggestion Box has also been installed in the campus and the hostel; the grievances received are handled in an amicable manner. Action taken report is displayed at the corresponding notice board. Student's quality circle, Representatives Meet, All students meet, is the forum in which students represent their academic issues with Principal directly. PTA meeting is organized every semester. Parents can represent their views and representations during this meet.

To develop the overall personality of the students, they are encouraged to participate in various **co-curricular and extracurricular activities**. All students are motivated to enroll and participate in respective **professional societies** like ISTE, IEEE, IE(I), ISRD, IETE, ISI, ISME, ICE etc. **Training and Placement department** enhances the employability skills of students through systematic training sessions on soft skills, aptitude skills and technical skills. Every year consistently 75% of Placement for the eligible students is accomplished by the T&P department.

Fine Arts Association organizes intra-department cultural festival "SANGAMAM" every year. To arouse the societal consciousness among students, various activities are organized by NSS, NCC, YRC, RRC, CCC. Students have brought laurels to our institution bagging numerous regional, zonal, state, national level medals and awards. Students have bagged awards/ medals in Tamil Nadu Inter Engineering Sports (TIES). Apart from Physical Education Director, separate coaches train individual games. It is prestigious that players have represented Zonal, University, State level and Indian level games.

Best Department award credits the accomplishments & activities of the department staff and students. Departments submit overall report of the department. Evaluation committee examines and identifies the best performer of the year. Department with highest score is awarded as Best Department during the Annual Day Celebrations. This practice instils a spirit of competition and triggers best accomplishments resulting in overall progression. Various innovative practices are adopted to instill developments in the minds of students and faculty members. "King of KINGS" award, Student Faculty Research

Development Scheme (SFRDS), ensuing individual and overall developments are practiced. Foreign Industrial visits are arranged for the Best pre-final year student every year with a yearly budget of Five Lakhs. Cash award for University rank holders motivates advanced learners. Totally 56 of our students has bagged University rank and awarded cash prize worth thirteen Lakhs.

File Description	Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

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Being rural located institution with diverse group of students varying in potential and committed to provide better career opportunities, various efforts are taken towards student progression. Around 45-50% of students belong to **First Graduate (FG)** category. With a commitment to raise the student skills and enhance their career opportunities, regular interactions with industries are initiated by inviting the Industry personnel's for various technical events. To overcome the challenges and to attain the objective, efforts are taken towards improving industrial interactions. Periodical reviews on Industrial/Experiential learning are examined in staff council meeting.

Teaching Learning strategies of the institution is set to offer enhanced technical education augmented by suitable skill enhancement initiatives of the learners. **Team of dedicated, experienced and well qualified faculty members** supported by other staff members formulate the attainment of educational objectives possible. Track record on faculty qualified with Ph.D, pursuing Ph.D and all faculty members with Masters Degree assures quality education to the learners.

In addition, to expose faculty members with industrial practices and expectations by means of “**Training to the Trainer**”, FVFS scheme is practiced. Faculty members visit various industries to acquire practical knowledge and upgrade to the recent trends adopted in the industries. Faculty members disseminate the knowledge gained during their visits and by appropriate mapping to course topics or content beyond syllabus component. FVFS schemes paves way for interactions with industrial personnel thereby linkages for academic support is established.

Laboratories with cutting edge facilities which provide optimum exposure to students are one among the

special features to ensure our vision. The institution provides computing facility with more than 600 systems. **Internet connectivity** supporting 50 Mbps and Wi-Fi facility is available throughout the campus. **Central library** houses 26,338 volumes of books is one of the biggest libraries in the surrounding. Online journals and back volumes are available in both hard and soft copy. DELNET facility is availed enabling National Level Digital sharing experience.

Regular time-table incorporates the skill enhancement practices Project work, GATE & Competitive exam coaching, T&P training and SWAYAM. Student Change Club meet is conducted regularly as per day order of the department. Professional society activities are conducted as per action plan semester wise. Student feedback for these practices shows the effectiveness of the activities. Industrial visits are important for student undergoing professional degree. IHT, IV and Internship are made mandatory to give insight into industrial environment. Some students have undergone online internships during this period, due to this pandemic situation. With an aim to go beyond academics, industrial visit provides students a practical perspective on the world of work.

The R&D section of the Institution has created its own impact on the Research & Development activities instilling research ambience and culture among faculty and students. The Departments of Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering are **recognized Research centers of Anna University**, Chennai. KINGS received funds from various government funding agencies like DST, TNSCST, AICTE etc., for its research proposals and projects.

The Institution operates a Grievance Redressal Cell. Students shall approach the cell to voice their grievances regarding academic matter and general service. The cell encourages the students to convey their grievances freely and frankly. Issues that require Management attention is conveyed immediately. A Suggestion Box has also been installed in the campus and the hostel; the grievances received are handled in an amicable manner. Action taken report is displayed at the corresponding notice board. Student's quality circle, Representatives Meet, All students meet, is the forum in which students represent their academic issues with Principal directly. PTA meeting is organized every semester. Parents can represent their views and representations during this meet.

To develop the overall personality of the students, they are encouraged to participate in various **co-curricular and extracurricular activities**. All students are motivated to enroll and participate in respective **professional societies** like ISTE, IEEE, IE(I), ISRD, IETE, ISI, ISME, ICE etc. **Training and Placement department** enhances the employability skills of students through systematic training sessions on soft skills, aptitude skills and technical skills. Every year consistently 75% of Placement for the eligible students is accomplished by the T&P department.

Fine Arts Association organizes intra-department cultural festival "SANGAMAM" every year. To arouse the societal consciousness among students, various activities are organized by NSS, NCC, YRC, RRC, CCC. Students have brought laurels to our institution bagging numerous regional, zonal, state, national level medals and awards. Students have bagged awards/ medals in Tamil Nadu Inter Engineering Sports (TIES). Apart from Physical Education Director, separate coaches train individual games. It is prestigious that players have represented Zonal, University, State level and Indian level games.

Best Department award credits the accomplishments & activities of the department staff and students. Departments submit overall report of the department. Evaluation committee examines and identifies the best performer of the year. Department with highest score is awarded as Best Department during the Annual Day Celebrations. This practice instils a spirit of competition and triggers best accomplishments

resulting in overall progression. Various innovative practices are adopted to instill developments in the minds of students and faculty members. “King of KINGS” award, Student Faculty Research Development Scheme (SFRDS), ensuing individual and overall developments are practiced. Foreign Industrial visits are arranged for the Best pre-final year student every year with a yearly budget of Five Lakhs. Cash award for University rank holders motivates advanced learners. Totally 56 of our students has bagged University rank and awarded cash prize worth thirteen Lakhs.

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

KCE encourages students with the following awards

- Proficiency Awards
- KING of Kings Award
- University Rank Holder Award
- Foreign Industrial Visit (Topper of the batch sponsored for foreign industrial visit by management)

Concluding Remarks :

Kings College of Engineering provides high quality education to the students and also meets the expectations of the young aspirants through various initiatives, additional support required to the students. The main aphorism of the institution, to provide quality education to the rural students was never compromised and it has been a great identity of our institution. Also KCE shoulders meritorious, economically backward students with various management scholarships. A Vibrant Research & Development section of the institute bridges faculty and students to be eminent at R&D activities. The section has received grants from DRDO, MHRD, AICTE, TNSCST etc., and accomplished many of the research projects and few are still underway. Professional society activities and Skill enhancement programmes are organized in a structured manner augmenting the overall growth of the students. Various National / State/ Regional Level technical events in association with professional societies and organizations are witnessed periodically. To arouse the societal consciousness among the students, they are encouraged to participate in events organized by NSS, NCC, YRC , RRC and CCC. Physical grooming is made through various sporting facility and activities. KCE awards like Proficiency award, Best Library user award, Foreign Industrial Visit, and King of KINGS award are in the arsenals to spearhead our students' endeavors reaching the heights of learning. Students securing Anna University ranks are honored with cash prizes during Graduation Day. The most remarkable practice followed in King College of Engineering is that, "Degree of the students will be awarded by the parents to the students on the Graduation day", which is the unique practice which is followed in KCE. The parents are really overwhelmed by this practice and they also request the management to continue this distinctive practice.