

### YEARLY STATUS REPORT - 2021-2022

| Part A   |  |  |
|--|--|--|
| Data of the Institution  |  |  |
| 1.Name of the Institution                                      | Kamaraj College of Engineering and Technology          |  |
| Name of the Head of the institution                            | Dr.S.Senthil   |  |
| • Designation  | Principal-in-Charge                                    |  |
| • Does the institution function from its own campus?           | Yes  |  |
| Phone No. of the Principal                                     | 04549278791  |  |
| Alternate phone No.  | 04549278171  |  |
| Mobile No. (Principal)   | 9894471176   |  |
| Registered e-mail ID (Principal)                               | principal@kamarajengg.edu.in                           |  |
| • Address  | S. P. G. C. Nagar, K. Vellakulam,<br>Near Virudhunagar |  |
| • City/Town  | Madurai  |  |
| • State/UT   | Tamilnadu  |  |
| • Pin Code   | 625701   |  |
| 2.Institutional status   |  |  |
| Autonomous Status (Provide the date of conferment of Autonomy) | 26/09/2019   |  |
| Type of Institution  | Co-education   |  |
| • Location   | Rural  |  |

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| Financial Status  | Self-financing  |
|---|---|
| Name of the IQAC Co-ordinator/Director                                  | Dr. Anandh. A   |
| • Phone No.   | 04549278171   |
| Mobile No:  | 9443748202  |
| • IQAC e-mail ID  | iqac@kamarajengg.edu.in   |
| 3.Website address (Web link of the AQAR (Previous Academic Year)        | http://www.kamarajengg.edu.in/med<br>ia/igac_meetings/AQAR-2020-2021-R<br>ESUBMITTED-07-04-2022.pdf |
| 4. Was the Academic Calendar prepared for that year?                    | Yes   |
| • if yes, whether it is uploaded in the Institutional website Web link: | http://www.kamarajengg.edu.in/asc<br>heduleview/3/  |

#### **5.**Accreditation Details

| Cycle   | Grade | CGPA | Year of<br>Accreditation | Validity from | Validity to |
|---------|-------|------|--------------------------|---------------|-------------|
| Cycle 1 | A     | 3.03 | 2015                     | 14/09/2015    | 30/09/2020  |
| Cycle 2 | A     | 3.03 | 2020                     | 01/10/2020    | 31/12/2025  |

#### 6.Date of Establishment of IQAC 20/10/2015

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

| Institution/ Depart<br>ment/Faculty/Sch<br>ool | Scheme                              | Funding Agency | Year of Award with Duration | Amount  |
|--|-------------------------------------|----------------|-----------------------------|---------|
| EEE  | RPS                                 | AICTE          | 22/11/2019                  | 150000  |
| EEE  | Start-up<br>Research<br>Grant       | DST            | 20/01/2020                  | 2864400 |
| EEE  | CHILDREN CENTRIC OUTREACH PROGRAMME | DST            | 01/04/2022                  | 1404600 |

| 8. Provide details regarding the composition of the IQAC:  |                  |  |
|--|------------------|--|
| Upload the latest notification regarding the composition of the IQAC by the HEI                                  | View File        |  |
| 9.No. of IQAC meetings held during the year  | 3                |  |
| Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? | Yes              |  |
| If No, please upload the minutes of the meeting(s) and Action Taken Report                                       | No File Uploaded |  |
| 10.Did IQAC receive funding from any funding agency to support its activities during the year?                   | No               |  |
| If yes, mention the amount   |                  |  |

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

Implementation of NEP in Regulation 2021 framed recently and successfully launched the R2021 syllabus for first and second year.

Implementation of seed money grant for best research proposal submitted by faculty members. Totally 12 project proposals are accepted and the faculty members received the grant money of Rs.2,75,000/-

Standard internal format templates are generated and uploaded in the College websites for various activities to maintain standard among all Departments

Indian Research Information Network System Portal is launched for our institution and most of the faculty members research details are uploaded.

Applied for various awards through IQAC cell and received the following awards 1 Data Quest 28th rank in All India Top T-School and 21st rank in All India Private Colleges. 2. Career 390 Degree Magazine Survey, our College got AAA Ranking 3. Our Institution is Ranked in Band Promising in ARIAA 2021 Ranking

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

| Preparation for the framing of autonomous regulations KCET R 2021 to include NEP  | Successfully implemented our second own curriculum and regulations R2021  |
|---|---|
| Preparation for NBA accreditation for the programmes B.E (Mechanical Engineering), B.Tech (Bio. Technology), B.E (Electrical and Electronics Engineering), extended NBA accreditation for the programmes B.E (Computer Science and Engineering) and B.E (Electronics and Communication Engineering) | Submitted the details in NBA portal for all the Departments.  |
| Motivation of the members of faculty to attend FDPs, NPTEL courses etc for self development and ask them to plan for publishing at least one SCI indexed journal  | No. of Journal Publications is increased. The overall average IF is increased to 3.6299 and cumulative Impact Factor is 61.078. |
| 3.Was the AQAR placed before the statutory ody?   | Yes   |
| Name of the statutory body  |   |
| Name of the statutory body  | Date of meeting(s)  |
| Academic Council  | 09/04/2022  |
| 4.Was the institutional data submitted to ISHE ?  | Yes   |
| • Year  |   |
|   |   |

| Year       | Date of Submission |
|------------|--------------------|
| 26/02/2022 | 26/02/2022         |

#### 15. Multidisciplinary / interdisciplinary

Our College vision is 'to make the Institution unique of its kind in the field of Research and Development activities in this part of the world'. It focuses on research activities by means of interdisciplinary works for solving the issues.

As an Autonomous Institution, uniform syllabus is framed for the all first year branches. The uniqueness of our Institution is, it offers Coding Techniques I and II subjects for first and second semester to all branches, to enhance their programming skills and Mathematics Laboratory for the first semester to strengthen the skill in solving problems using simple Mathematical application problems.

Subjects, papers like Environmental Science, Principles of Management, Professional Ethics and Human Values etc., are offered as compulsory to all the branch students for a holistic development. The credits earned for the above subjects are considered for the calculation of CGPA.

In addition to that, the audit courses with papers like Constitution of India, Design Thinking, Value Education, Stress Relieving Management in Yoga, Developing your Personality, Essence of Indian Knowledge Tradition and Appreciation of Sangam era Tamil Literature are offered to our students. Students are given choice to choose any two courses and complete within four years of the degree programme.

In our Regulation 2021, the Curriculum, for all the branches are framed as a on multidisciplinary flexible curriculum. The dual degree concept is introduced as per the guidelines of our Parent University (Anna University, Chennai) and the implementation works are in progress. Honours and Minor degree will be offered to the students who secure more than 7.5 CGPA in the academics on their willingness.

The curricular design is framed as four years courses for all branches as follows:

| Year | Course Contents                                      |  |
|------|--|--|
| I    | Basic Science & Humanities Courses                   |  |
| II   | Basic Engineering Science Courses & Core Courses     |  |
| III  | Core, Professional Elective & Open Electives Courses |  |
|      |  |  |

## Open Electives & Management Courses, Project Work is in eighth semester

A multiple entry and exit is possible as per National Education Policy. Professional Elective Courses are offered on Verticals or buckets, and it consists of papers within a specialization field.

In the current final year, one common subject paper titled "Professional Readiness for Innovation, Employability and Entrepreneurship" is introduced for three branches CSE, IT & ECE to expertise the students with a multidisciplinary approach to solve the societal problems. Our College joined hands with companies like IBM, ICT Academy & Tamilnadu Skill Development Corporation and offers training to the students and faculty members in online mode. Students are divided into groups of four members and given a project in phases. They are monitored through web portal. Based on the progress, marks are awarded and prizes were also given to outstanding students. It is planned to extend to all the branches in near future.

Good Practices in our Institution for promoting Multidisciplinary / Interdisciplinary Approach

- 1. Prototype Centre is available with all infrastructure facilities for promoting interdisciplinary project.
- 2. Internship / Inplant Training is made compulsory for students.
- 3. Technovision competition is organized for presenting multidisciplinary projects.
- 4. KITEs for Entrepreneurs meet is organized for encouraging the students start up.
- 5. Seven Research Centres are approved by Anna University for advanced research in all disciplines.
- 6. Students & faculty members are encouraged for filing patents & copyrights.
- 7. Financial assistance is provided to students by the College Management, for participating project competitions in outside Tamilnadu.

#### **16.**Academic bank of credits (ABC):

The ABC platform is built within the DigiLocker framework by the Ministry of Electronics and Information Technology (MeitYNational)'s e-Governance Division (NeGD), with the facility and functionality of opening Academic Accounts for students and on-boarding of Higher Educational Institutions.

Academic Bank of Credits has been established on the lines of the National Academic Depository (NAD), in the sense, NAD is the backbone of ABC, where the students' academic data are held and academic awards are stored (i.e. storehouse of academic awards). Despite the fact that ABC enables students to register or commence credit transfer, the final outcomes of credit redemption and issuance of certificates, as well as the compilation of award record, are administered by academic institutions via the NAD Platform. Hence, being the owner of academic awards, Academic Institutions must mandatorily register themselves under ABC via NAD.

Our institution has created the account in Digi locker framework. As per Ministry of Electronics and Information Technology (MeitYNational)'s e-Governance Division (NeGD), digilocker registration is mandatory to create the account in National Academic Depository (NAD).

Our institution has completed registration in National Academic Depository (NAD) and waiting for approval for the same.

An Awareness program will be conducted for the students of our institution about the benefits of Academic Bank of Credits services. The students will be encouraged to create an account in ABC and complete the registration process effectively.

#### 17.Skill development:

a. The National Skills Qualifications Framework -(NSQF) is a competency-based learning framework that focuses on promoting skill development besides academic values in students. The following Key Elements of National SkillsQualification Framework (NSQF) is being strengthened in our institution.

Skill proficiencypromotion to create individuals with international equivalency. Multiple entries and exit provisions to students

Opportunities to help students become lifelong learner

Preparedness for the industry-standard with development of skills

A transparent mechanism for growth of students

b. KAMARAJ college of Engineering and Technology has taken initiatives for skill development since 2017. KAMARAJ college of

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Engineering and Technology has made tie-up with Rubber Skill
Development Council (RSDC), currently renamed as Rubber, Chemical &
Petrochemical Skill Development Council (RCPSDC). The SDMS -Skill
Development & Management System registration numbers is NSDCREGNo-13250. The course code is 9067. The course name is Senior
Rubber Technician. The training centre number is 86422. As outcome of
this, Two batch students have undergone the skill development in our
KAMARAJ college. Batch -1: No.of Student Registered 16 (2017);
Batch -2: No.of student registered -11 (2019). It is hereby informed
that Our KAMARAJ college has received the "Special Award" in the
category of Best Universities & Colleges 2016-17, RSDC's first
college tie up to offer dual certification programme of "SENIOR
RUBBER TECHNICIAN" to students of Polymer Technology and for showing
excellent performance, significantly contributing to the rubber
industries.

c. The main function of education is to enrich the character. Since education is a powerful instrument of social change and human progress, it is also a powerful tool to cultivate values in an individual. In general, the aim of the Value education in our institution is at the development of values of the following type.

a) Scientific temper of mind. b) Large heartedness. c) Co-operation.
d) Tolerance e) Respect for the culture of other groups. For inculcating these values, the institution has provided the following guidance such as

Provision of value based curriculum

Designing special orientation program for teachers

Value based foundation courses

Publication of literature based on values

Necessity to develop code of conduct for teachers and students

- d. i) Vocational courses are an educational discipline that enables individual to acquire skills that are required for a particular trade. As per regulation R-2021, all students are made compulsory to undergo the vocational courses in second year as value added program
- ii) The fascinated candidates in each program of our institution will be directed from Apprenticeship to Entrepreneurship (A2E) through component of the Entrepreneurship Development and Employment Programme with support of Skilled Master Craft Persons (SMPs) and

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#### the services of Industry veterans

- iii) Vocational coursesin online form of tuition, so called MOOC(massive open online courses), MOOCis an introduction to blending technology.Blended learning is an important and rapidly-developing form of education, and this intermediate-level course will emphasise its benefits to both educators and students, including greater flexibility and convenience, aswell as potential increases in learner creativity and independence.To inculcate the lifelong learning of vocation course in online form to our institution Candidates, the following steps are created such as MOOC courses awareness, faculty mentor for courses and provided the supported lab facilities.
- iv) In India, the National Skill Development Missionlaunched by the Ministry of Skill Development and Entrepreneurship onJuly 15, 2015, aims to create convergence across sectors and States in terms of skill training activities. Orientation programis conducted at each semesterfor institution candidates that providequalitative and quantitative information on NSDC enrolment, skill mapping and importance of certification among the candidate to understand the labour market of the industry sector.
- v) Sector Skill Councils (SSCs)-These councils were founded by the NSDC as independent industry-led bodies. One of the main tasks of the SSCwill be to develop and maintain the National Occupation Standards (NOS) of all the skill types in their sector. These will lay down the skill competency standards and qualification for each job role. Our institution is being offeredvarious undergraduate discipline courses. Skilling courses as per NSQF level related to our institution undergraduate courses discipline will be provided to develop the student's skill
- e. The Best Practices listed here are instructed to follow at skilldevelopment courses in our institutionand each can be demonstrated, evaluated, and further evolvedbecause they are observable performances.1.Lecture Practices2.Group Discussion Provocations3.Thoughtful Questions4.Reflective Responses to Learners5.Rewarding Learner Participation6.Active Learning7.Cooperative Groups

## 18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

a) The course Indian Knowledge System has been planned to conduct through Offline and batches are split up so that the objective of

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the programme could be attained. For every student, it becomes part and parcel. It is decided to go with Traditional way of teaching in English and Vedic Mathematics. As it is necessary for every student to have touch with the past, the traditional method is being practiced. Trained faculty members are allotted for handling the course for the welfare of the students. They help pupils to choose a bright way of life. IKS becomes the beacon of the younger generation.

- b) Kamaraj College of Engineering and Technology has implemented the Indian Knowledge System Course for the enrichment of the students' welfare. The course handling faculties are well trained and the course is delivered in both Tamil and English. It is for the betterment of the students to understand the concept clearly.
- c) The course is being conducted to all the branches of I year students B.E./B.Tech.- Civil, ECE, EEE, CSE, AI&DS, Mechanical, Mechatronics, IT, PT,BT.
- d) i) Tamil is the medium of language for handling Indian Knowledge System so that students can understand the various heritage of the language and scholars who worked for the welfare of Tamil and Tamilans. Hindi Known faculties are also available for handling the course for students who are from the North.
- ii) Yoga has been taught for the students' community since it is

necessary for the students to keep their physic and mind healthy. The country is being polluted by humans in various aspects. This is because of their ignorance. To brush aside ignorance, it is necessary for every citizen to know his body and soul. To keep body and soul healthy, practicing yoga is important in this current scenario.

- iii) Fine Arts have been conducted for the students to explore their talents in various fields such as Singing, Dancing Classical and Western. Drawing competitions are being held on college <u>campus</u>. Videography is
- iv) Many festivals are being conducted by the people of Tamil N?du. Pongal is the one most festival which is celebrated across the country. Such Festival should be celebrated. 'Pongal' is being celebrated grandly on the college campus. During this festival, boys wear the traditional attire Dhoti and girls wear saree to show the importance of celebrating Pongal. Sweet Pongal is made in a big pot prepared by teachers and students. Sugarcanes are distributed to

teaching and non-teaching faculty and students.

e) Various practices have been taken by our college for the students to enrich their communication skills, traditional values, stability mind and healthy way of living which would make our life valuable.

#### 19. Focus on Outcome based education (OBE): Focus on Outcome based education (OBE):

The Institute has taken many initiatives since January 2017 for the implementation of OBE at Institute level. Students were given a future-focused vision for acquiring knowledge, skills, and attitudes. All the teachers are well trained to implement outcome based education. Each programme has its own vision, mission and Programme Education objectives (PEOs). The curricula and syllabi of all programmes are designed to meet the set of course objectives and learning outcomes. All the courses of all programmes have well defined course outcomes based on revised Blooms taxonomy. The course outcomes are mapped to Programme outcomes and programme specific outcomes. The consistency of PEOs with misson statements are also be verified continuously. The teacher of every course will continuously monitor the progress of the each student for the attainment of Programme outcomes through assessments directly by conducting examinations (Formative / Summative assessments) and by indirectly through the participation of students in cocurricular and extracurricular activities. The institute has its own inhouse developed copyrighted software tool for the calculation of course outcome and Programme Outcome attainment measurements. Corrective actions were being taken continuously based on the attainments and feedbacks from the teachers and students.

Many efforts are made by the institution to improve teaching and learning practice. Some of them are listed below. The instructional methods are focused on student centric learning:

- Interactive classrooms
- Design thinking to optimize student learning
- Focused group study
- Simulation classes and labs
- ICT usage
- Problem based learning: Student-directed learning
- Flipped classroom
- Develop lifelong learning attitude
- Web based learning

- Presentations
- Soft skill classes for personality development
- Pedagogical Initiatives
- Quality of Laboratory Experiments
- Weak and bright students support system

Also the List of Assessment tools based on Blooms taxonomy are defined for the conduct of formative and diagnostic assessments..

#### **20.Distance education/online education:**

- a) The vocational courses can be offered through Open and Distance Learning (ODL) mode based on the different community of audience like 10th passed outs &12th passed outs, diploma students, unemployed and home makers. Kamaraj College of Engineering and Technology going to offered vocational courses in various fields including Web Designing, Mobile Servicing, Graphical Designing, Electrical Installation and Wiring, Programmable Logic Controller (PLC), Health Care, Food Technology, Automotive Repair, Welding Skill, Plumbing and Carpentry.
- b) The technological tools for teaching learning activities followed in our institution are learning videos with recording or dubbing or editing facilities, e-content for reading and improving comprehension of learners, tests and assignments that test the understanding and discussion forum that clarifies the doubts of the learners.

The blended learning is the blending of different learning methods and will be followed by face to face, online, audio, video, print social media etc., The blended learning leads to team work, self-study, peer group interaction and collaborative learning. In simple terms blended is a composition of 50% face to face and 50% online education. Therefore, flipped classrooms are essential to adopt this mode of teaching.

Self-Learning Materials developed and offered by it is selfexplanatory, self-contained, illustrative, easily comprehensible, and in manageable modules such as units and blocks and the material is revised periodically from the perspective of improving quality and learner support.

#### **Extended Profile**

#### 1.Programme

| 1.1   |                 | 18               |
|---|-----------------|------------------|
| Number of programmes offered during the year:   |                 |                  |
| File Description  | Documents       |                  |
| Institutional Data in Prescribed Format   |                 | View File        |
| 2.Student   |                 |                  |
| 2.1   |                 | 1914             |
| Total number of students during the year:   |                 |                  |
| File Description  | Documents       |                  |
| Institutional data in Prescribed format   |                 | <u>View File</u> |
| 2.2   |                 | 546              |
| Number of outgoing / final year students during the year:                             |                 |                  |
| File Description Documents  |                 |                  |
| Institutional Data in Prescribed Format  View File                                    |                 | <u>View File</u> |
| 2.3   |                 | 2241             |
| Number of students who appeared for the examinate by the institution during the year: | tions conducted |                  |
| File Description Documents  |                 |                  |
| Institutional Data in Prescribed Format   |                 | View File        |
| 3.Academic  |                 |                  |
| 3.1   |                 | 563              |
| Number of courses in all programmes during the year:                                  |                 |                  |
| File Description Documents  |                 |                  |
| Institutional Data in Prescribed Format  View File                                    |                 | View File        |
| Institutional Data in Prescribed Format   |                 |                  |
| 3.2   |                 | 169              |
|   |                 |                  |

| File Description Documents  |                  |
|---|------------------|
| Institutional Data in Prescribed Format   | <u>View File</u> |
| 3.3   | 187              |
| Number of sanctioned posts for the year:  |                  |
| 4.Institution   |                  |
| 4.1   | 636              |
| Number of seats earmarked for reserved categories GOI/State Government during the year: | as per           |
| 4.2   | 78               |
| Total number of Classrooms and Seminar halls  |                  |
| 4.3   | 1434             |
| Total number of computers on campus for academic purposes                               |                  |
| 4.4   | 4,60,72,730      |
| Total expenditure, excluding salary, during the year Lakhs):                            | (INR in          |

#### Part B

#### **CURRICULAR ASPECTS**

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The world's knowledge environment is changing quickly, as mentioned in National Education Policy (NEP) 2020. The need for skilled workers is rising as a result of several significant scientific and technical advancements, notably in the fields of Mathematics, Computer Science, and Data Science as well as interdisciplinary skills in science, social science, and humanities. Therefore, new Curriculum R2021 was created in accordance with the regulatory standards of AICTE, the affiliated university, the governing body, and the academic council of the institution, and it was put into effect from the academic year 2021-2022.

The appropriate Programme Head and Programme Coordinator designate Domain Experts and Domain Course In-Charges to develop the Programme Specific Outcomes (PSOs), courses offered in each programme, their content, and the mapping of COs with POs and PSOs. Members of the BoS committee include internal faculties, academics from reputable institutions, business professionals, and alumni. Before authorising PSOs and courses, the Board of Studies (BoS) committee of the appropriate programme considers how well they would help students achieve the demands at various levels. Every semester, a meeting will be conducted to discuss any course adjustments that may be necessary, depending on input from stakeholders. In the meeting of the academic council, the minutes of BoS meetings of individual Programmes are submitted for approval.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload additional information, if any | <u>View File</u> |
| Link for additional information       | Nil              |

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

0

| File Description                                    | Documents        |
|---|------------------|
| Minutes of relevant Academic<br>Council/BOS meeting | No File Uploaded |
| Details of syllabus revision during the year        | <u>View File</u> |
| Any additional information                          | No File Uploaded |

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

48

| File Description  | Documents        |
|---|------------------|
| Curriculum / Syllabus of such courses   | <u>View File</u> |
| Minutes of the Boards of Studies/<br>Academic Council meetings with<br>approval for these courses | No File Uploaded |
| MoUs with relevant organizations for these courses, if any  | No File Uploaded |
| Any additional information  | No File Uploaded |

#### 1.2 - Academic Flexibility

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

10

| File Description  | Documents        |
|---|------------------|
| Minutes of relevant Academic<br>Council/BoS meetings    | No File Uploaded |
| Any additional information                              | No File Uploaded |
| Institutional data in prescribed format (Data Template) | <u>View File</u> |

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

18

| File Description                                     | Documents        |
|--|------------------|
| Minutes of relevant Academic<br>Council/BoS meetings | No File Uploaded |
| Any additional information                           | No File Uploaded |
| List of Add on /Certificate programs (Data Template) | <u>View File</u> |

#### 1.3 - Curriculum Enrichment

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

In our Institution, equal chances are offered to the irrespective of the genders of our student community. Both boys and girls are given

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equal importance in terms of admissions, placement training, curricular, extra-curricular and co-curricular activities. Hence, gender based issues will not be emerged.

Currently, we follow the autonomous regulation 2020 & regulation 2021. The institution strives its level best to integrate the cross cutting issues through curriculum. As per AICTE Model Curriculum Universal Human Value (UHV) a three-week mandatory Student Induction Program (SIP) is conducted regularly for newly admitted undergraduate students to prepare for the new stage in their life. Through Choice Based Credit System (CBCS) the students will undergo any one course (as a core or an elective course) related to ethics or gender or human values or environment and sustainability.

Awareness programmes, camps, rallies etc are organized under NCC and NSS schemes. Tree plantation is done around the campus and nearby villages periodically by the gardening club and NSS club in the view of environment and sustainability.

| File Description   | Documents        |
|--|------------------|
| Upload the list and description of<br>the courses which address issues<br>related to Gender, Environment<br>and Sustainability, Human<br>Values and Professional Ethics in<br>the curriculum | <u>View File</u> |
| Any additional information   | No File Uploaded |

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

2.2

| File Description   | Documents        |
|--|------------------|
| List of value-added courses                                    | <u>View File</u> |
| Brochure or any other document relating to value-added courses | <u>View File</u> |
| Any additional information                                     | No File Uploaded |

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

743

| File Description           | Documents        |
|----------------------------|------------------|
| List of students enrolled  | <u>View File</u> |
| Any additional information | <u>View File</u> |

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

#### 835

| File Description  | Documents        |
|---|------------------|
| List of programmes and number of students undertaking field projects / internships / student projects | <u>View File</u> |
| Any additional information  | No File Uploaded |

#### 1.4 - Feedback System

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

A. All 4 of the above

| File Description  | Documents  |
|---|--|
| Provide the URL for stakeholders' feedback report   | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r1/1.4.1.pdf |
| Upload the Action Taken Report<br>of the feedback as recorded by<br>the Governing Council /<br>Syndicate / Board of<br>Management | No File Uploaded   |
| Any additional information  | No File Uploaded   |

## **1.4.2** - The feedback system of the Institution comprises the following

## C. Feedback collected and analysed

| File Description                              | Documents  |
|---|--|
| Provide URL for stakeholders' feedback report | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r1/1.4.2.pdf |
| Any additional information                    | No File Uploaded   |

#### TEACHING-LEARNING AND EVALUATION

#### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

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

458

| File Description                        | Documents        |
|---|------------------|
| Any additional information              | <u>View File</u> |
| Institutional data in prescribed format | <u>View File</u> |

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

436

| File Description  | Documents        |
|---|------------------|
| Any additional information                                    | <u>View File</u> |
| Number of seats filled against seats reserved (Data Template) | <u>View File</u> |

#### 2.2 - Catering to Student Diversity

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

In our institution, faculty members are assigned with responsibility as Mentor and each mentor will have an average of 15 to 20 students. The students are continuously evaluated through internal assessment and their performance is continuously monitored through the interaction in classroom & laboratory. Once the slow learners and advanced learners are identified through the continuous assessment and monitoring various support systems are provided for the both level of learners by our institution.

Methodologies to support slow learners:

- Faculty mentors closely monitor the academic progress of the students and support them in improving their performance.
- Activity based content delivery is adopted during the lecture for better understanding of concepts.
- Remedial classes and Arrear coaching are given to the slow

learners in order to support their graduation within the stipulated time.

Methodologies to support Advanced Learners:

- Advanced learners are encouraged to participate in national level competitions like Hackathon.
- Students get more exposure on technical aspects and higher studies.
- Students are encouraged to clear national level exams like GATE which increases the cognitive level of the students.
- Students are motivated to do self-learning.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

#### 2.2.2 - Student - Teacher (full-time) ratio

| Year       | Number of Students | Number of Teachers |
|------------|--------------------|--------------------|
| 13/07/2022 | 1911               | 169                |

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | <u>View File</u> |

#### 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:

The institution ensures the use of student centric methodology such as experiential, participative learning and problem solving methodologies in teaching-learning process. This enables the students to be active participants rather than being passive listeners. The learning becomes more experiential, participatory and socialistic by organizing activities like group seminars, quizzes and assignmentsThe institution ensures the use of student centric methodology such as experiential, participative learning and problem

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solving methodologies in teaching-learning process. This enables the students to be active participants rather than being passive listeners. The learning becomes more experiential, participatory and socialistic by organizing activities like group seminars, quizzes and assignments.

#### a) Experiential Learning:

The institution imparts the following experiential learning practices to enhance creativity and cognitive levels of the students

- Students are encouraged to take up innovative projects and mini projects.
- NPTEL courses encourages experiential learning by involving both teachers and students to learn together.
- Professional chapters like ISTE helps to improve the learning skills of the students.
- Internship helps the students to work in industry projects.
  b)Participative Learning:

Students participate in various activities such as

- Seminars
- Guest Lectures
- Conferences
- Group Activity c ) Problem Solving Methodologies
- Students develop mini projects beyond the curriculum.
- Students implement real time projects and participate in technical contests in order to improve critical thinking, creativity and problem solving skills.
- Case studies, aptitude and logical training are provided to students to enrich their problem-solving skills.
- Students solve their lab exercises through E-Box.

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | <u>View File</u> |
| Link for additional Information   | Nil              |

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

The institution is continuously encouraging modern innovative ICT-enabled tools in all aspects of the curriculum. The ICT-enabled tools promote student engagement and enhance the learning ability of

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students. Thereby it forges a new path of teaching excellence thus contributing to quality education.

All the classrooms are well equipped with LCD projectors that help to deliver interactive lectures and demonstrations through animations, powerpoint presentations, videos.Campus is enabled with Wi-Fi internet facility with 155 Mbps bandwidth. This allows the students to enrich their knowledge and skills by exploring the different online platforms. The institution has a state of art digital library, well equipped with e-books and subscribed e-journals which serve as a knowledge resource centre.

#### 1. ICT based Teaching Methodologies:

White board-Tutorial point

Driodcam

Online simulators

8085 simulator app.

NPTEL lectures.

Slide share

Google classroom

Programiz

Blender

Weka

Canva

MS Teams

ZoomIt

Python visualizer

Bingo

1. ICT in Assessment Methods

| • Quiz Platforms:   |
|---|
| Kahoot  |
| Outlook, Google Forms                                       |
| Easy Test Maker   |
| • Interactive Assessments:                                  |
| Google classroom  |
| Canvas  |
| Quizziz   |
| Easy test maker   |
| Proprofs Quiz   |
| Edmodo  |
| Polly   |
| • Designing Posters/Charts:                                 |
| Canva   |
| Padlet  |
| <ul><li>Interactive Seminar</li><li>Lab exercises</li></ul> |
| IIT Virtual Lab   |
| E-Box   |
| Labview   |
| MATLAB  |
| 8051-Neutrino virtual lab                                   |
| • Group Discussion:   |

Online Discussion

Think Pair Share

Picture free writing

• Innovative Class Games:

Crossword, word search puzzle

Educaplay

#### Role play

| File Description   | Documents  |
|--|--|
| Provide link for webpage<br>describing ICT enabled tools<br>including online resources for<br>effective teaching and learning<br>process | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r2/2.3.2.pdf |
| Upload any additional information  | <u>View File</u>   |

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

#### 2.3.3.1 - Number of mentors

#### 169

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

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

Before the commencement of every academic year, the Institution prepares and publishes 'Academic Calendar' for all the programs. It is made known to the stakeholders through the college website. The Academic Calendar includes the details of various events to be organized and holidays, etc. Every semester, Dean Academics releases "Calendar for Academic Activities" with the approval of the Principal. It is made known to the faculty members through College website. Calendar for Academic Activities includes the details of

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various academic activities, tentative internal assessment schedules and the number of working days.

Teaching Faculty is required to prepare the Course file in a predefined format given by Internal Quality Assurance Cell of the Institution. The course file comprises syllabus, teaching plan (course plan), detailed course information with course outcomes, lecture notes, Model question paper, assignments rubrics. The course file is verified by the HOD at the beginning of the semester and during the semester regularly to check for compliance with the set standards. At the end of every academic year, the institution conducts an audit to check for the adherence to the academic calendar and teaching plans.

| File Description  | Documents        |
|---|------------------|
| Upload the Academic Calendar and Teaching Plans during the year | <u>View File</u> |

#### 2.4 - Teacher Profile and Quality

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

169

| File Description   | Documents        |
|--|------------------|
| Year-wise full-time teachers and sanctioned posts for the year | <u>View File</u> |
| List of the faculty members authenticated by the Head of HEI   | <u>View File</u> |
| Any additional information                                     | No File Uploaded |

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

73

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

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

#### 1656

| File Description  | Documents        |
|---|------------------|
| List of teachers including their PAN, designation, Department and details of their experience | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### 2.5 - Evaluation Process and Reforms

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

30

| File Description  | Documents        |
|---|------------------|
| List of Programmes and the date<br>of last semester-end / year-end<br>examinations and the date of<br>declaration of result | <u>View File</u> |
| Any additional information  | <u>View File</u> |

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

6

| File Description   | Documents        |
|--|------------------|
| Upload the number of complaints<br>and total number of students who<br>appeared for exams during the<br>year | <u>View File</u> |
| Upload any additional information  | No File Uploaded |

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

Examination procedures

All theory courses, practical courses, and project work are

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evaluated for a maximum of 100 marks. Performance in each course of study is evaluated based on:

#### i) Continuous Internal Assessment System

#### ii) End Semester Examination

The institute has an Examination Cell headed by the Controller of Examination for the smooth conduct of internal and end-semester examinations.

#### Processes integrating IT

Continuous internal assessment comprises of three cycle tests of written practice consisting of 2 marks/ 8 marks/ 12 marks/13 marks questions and one /three assignments.

The assessment (cycle test) will be conducted as per the schedule given in the academic calendar. Each test carries a maximum of 50 marks and will be conducted for a duration of 90 Minutes.

#### R2021,R2020

In R2020, R2021 Internal marks shall be calculated by considering the average of the best two Internals.

#### R2017

In the 2017 regulation, Internal marks are given equal weightage to all three tests.

End semester Theory & Laboratory Examinations

The end-semester theory examinations are conducted through offline mode. All the faculty members evaluate the paper and enter the marks in ROVAN software.

Co-Po mapping is also done for the evaluated papers in ROVAN software.

| File Description                         | Documents        |
|--|------------------|
| Upload any additional information        | <u>View File</u> |
| Paste link for additional<br>Information | Nil              |

#### 2.6 - Student Performance and Learning Outcomes

- 2.6.1 Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students
  - Institution has stated the programme outcomes as described by NBA for all the programmes. Programme specific outcomes are framed by the concerned department and approved by Programme Assessment Committee (PAC).
  - Course outcomes of each course are framed by the subject experts and are approved by the head of the concerndepartment.
  - After Autonomous, Regulation 2020 (KCET R2020) and Regulation 2021(KCET R2021) curriculum and syllabus are framed by the Institution. All the courses are grouped into various domains and the faculty members in each domain frame the course outcomes. Course Outcomes are approved by the subject expert and the Head of the Department. The syllabus along with the course outcomes are presented in the Board of Studies (BoS) meetings. The suggestions and modifications given by the BoS members are incorporated in the syllabus.
  - The course outcomes are disseminated to the students through
    - Course introduction class by the course instructor
    - Course plans
    - Lab manuals/Records
    - Project reports
    - Internal examination question papers
    - PAC meeting
  - Programme outcomes and programme specific outcomes are disseminated to the teachers and students through
    - Institution Website
    - Displays in Departments
    - Displays in Laboratories
    - Lab manuals/Records
    - Parents Teachers meetings

| File Description   | Documents        |
|--|------------------|
| Upload COs for all courses (exemplars from the Glossary) | <u>View File</u> |
| Upload any additional information                        | <u>View File</u> |
| Link for additional Information                          | Nil              |

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

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

- Program Outcome and Course Outcome are evaluated using the inhouse tool (copyrighted excel sheet-Reg No: SW13027/2019) developed by our faculty members.
- Attainment levels of the programme outcomes and course outcomes of the course are calculated for R2017, KCET R2020 and KCET R2021 autonomous curriculum.
- The Institution ensures the attainment of COs-POs-PSOs through direct and indirect assessment.
- The tools and procedure for the direct and indirect attaiment is provided in the below link.http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr2/2.6.2.pdf

| File Description                         | Documents        |
|--|------------------|
| Upload any additional information        | <u>View File</u> |
| Paste link for additional<br>Information | Nil              |

#### 2.6.3 - Pass Percentage of students

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

546

| File Description   | Documents        |
|--|------------------|
| Upload list of Programmes and<br>number of students appear for<br>and passed in the final year<br>examinations | <u>View File</u> |
| Upload any additional information  | <u>View File</u> |
| Paste link for the annual report   | Nil              |

#### 2.7 - Student Satisfaction Survey

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

http://www.kamarajengg.edu.in/NAAC22/AOAR1/cr2/2.7.1.pdf

#### RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 - Promotion of Research and Facilities

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

Kamaraj College of Engineering and Technology has a well-defined policy for promoting research. The detailed institute research policy is available in our college website. In order to strengthen the research profile of the Institute, our institute has established the R & D Cell in which faculty members from each department act as members and it is led by Dean Research. The faculty members are encouraged to undertake sponsored research and consultancy projects. Our institute supports research by providing research lab/facility in each department and the faculty can utilize after working hours also. Institute supports faculty member's research by providing night stay and food if required.

As a follow-up of research promotion policy, the following initiatives have been taken in this period. (June 2021 - August 2022).

- Study leave, sabbatical leave, duty leave to faculty members for doing research
- Paid leave for preparing synopsis, thesis and viva voce for faculty members doing part time research
- Institute appreciates and honouring the faculty members who published good research work
- Financial assistance to faculty members to visit research lab / industries
- Encouraging faculty members to apply forsummer research fellowship
- Seed money Rs. 2.75 lakhs given to faculty members for research
- Intellectual Property Rights (IPR) Cell established and various awareness workshops organized for students and faculty members

Further, our college has been recognized as a "Scientific and Industrial Research Organization (SIRO)" by the Department of Scientific and Industrial Research (DSIR), New Delhi.

| File Description   | Documents  |
|--|--|
| Upload the Minutes of the<br>Governing Council/<br>Syndicate/Board of Management<br>related to research promotion<br>policy adoption | <u>View File</u>   |
| Provide URL of policy document<br>on promotion of research<br>uploaded on the website  | http://www.kamarajengg.edu.in/docs/Institute<br>%20Research%20Policy.pdf |
| Any additional information   | No File Uploaded   |

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

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

#### 2.75

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

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

1

| File Description  | Documents        |
|---|------------------|
| e-copies of the award letters of<br>the teachers                  | <u>View File</u> |
| List of teachers and details of their international fellowship(s) | <u>View File</u> |
| Any additional information  | No File Uploaded |

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#### 3.2 - Resource Mobilization for Research

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

#### 2.28

| File Description  | Documents        |
|---|------------------|
| e-copies of the grant award<br>letters for research projects<br>sponsored by non-governmental<br>agencies/organizations | <u>View File</u> |
| List of projects and grant details  | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### 3.2.2 - Number of teachers having research projects during the year

#### 11

| File Description                          | Documents  |
|---|--|
| Upload any additional information         | No File Uploaded   |
| Paste link for additional Information     | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r3/3.2.1.pdf |
| List of research projects during the year | <u>View File</u>   |

#### 3.2.3 - Number of teachers recognised as research guides

#### 33

| File Description  | Documents        |
|---|------------------|
| Upload copies of the letter of the university recognizing teachers as research guides | <u>View File</u> |
| Institutional data in Prescribed format   | No File Uploaded |

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

6

| File Description                          | Documents   |
|---|---|
| Supporting document from Funding Agencies | <u>View File</u>  |
| Paste link to funding agencies' website   | https://www.tanscst.nic.in/, https://www.aic<br>te-india.org/schemes/staff-development-<br>schemes, https://www.faer.ac.in/2223-faer-<br>scholar-awards |
| Any additional information                | No File Uploaded  |

#### 3.3 - Innovation Ecosystem

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

Kamaraj College of Engineering and Technology have received funds from DST- SERB, DBT, DRDO. Our institute is recognized as Scientific and Industrial Research Organization by DSIR.

The Research and Development Cell encourages faculty members to publish papers and book chapters in reputed journals. Three faculty members from MECH and EEE have been listed by Elsevier BV, Stanford University, as top 2% scientists worldwide. Thirteen faculty members from various departments have been listed as world scientists and ranked 147 in private category by AD scientific index. Our institute is appreciated for the active participation in NIPAM by the Government of India.

Our Industry Institute Interaction Cell provides the industrial exposure to faculty members on industrial practices which helps to guide the students to win prizes awarded by TNSCST and FAER for their project. Our Institute Innovation Cell got 3.5-star rating by Ministry of Education, Government of India to promote Innovation and Start up.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

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| File Description                                     | Documents        |
|--|------------------|
| Report of the events                                 | <u>View File</u> |
| List of workshops/seminars conducted during the year | <u>View File</u> |
| Any additional information                           | No File Uploaded |

#### 3.4 - Research Publications and Awards

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

B. Any 3 of the above

| File Description  | Documents        |
|---|------------------|
| Code of Ethics for Research,<br>Research Advisory Committee<br>and Ethics Committee<br>constitution and list of members<br>of these committees, software<br>used for plagiarism check | <u>View File</u> |
| Any additional information  | No File Uploaded |

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

#### 3.4.2.1 - Number of PhD students registered during the year

13

| File Description   | Documents        |
|--|------------------|
| URL to the research page on HEI website  | Nil              |
| List of PhD scholars and details like name of the guide, title of thesis, and year of registration | <u>View File</u> |
| Any additional information   | <u>View File</u> |

#### 3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website

#### during the year

85

| File Description  | Documents        |
|---|------------------|
| List of research papers by title,<br>author, department, and year of<br>publication | <u>View File</u> |
| Any additional information  | <u>View File</u> |

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

8

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/cr<br>3/3.4.4.pdf |

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

#### 3.4.5.1 - Total number of Citations in Scopus during the year

5104

| File Description                                  | Documents        |
|---|------------------|
| Any additional information                        | <u>View File</u> |
| Bibliometrics of the publications during the year | <u>View File</u> |

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

#### 3.4.6.1 - h-index of Scopus during the year

**59** 

| File Description  | Documents        |
|---|------------------|
| Bibiliometrics of publications<br>based on Scopus/ Web of Science<br>- h-index of the Institution | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### 3.5 - Consultancy

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

#### 0.57575

| File Description   | Documents        |
|--|------------------|
| Audited statements of accounts indicating the revenue generated through consultancy and corporate training | <u>View File</u> |
| List of consultants and revenue generated by them  | <u>View File</u> |
| Any additional information   | <u>View File</u> |

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

0

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

#### 3.6 - Extension Activities

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

A young team of one NSS Unit with 48 volunteers, a group of NCC cadets comprising 50 cadets and different service channels such as Youth Red Cross, Fine Arts club conducted activities during last year aimed for the empowerment of people and the environment of nearby villages. Various public awareness programmes such as COVID camp, Anti-drug, Blood donation camp were conducted for the welfare of the people of villages. Various awareness programs on Environmental issues through Swachh Bharat, Green village, plastic pollution and Tree plantation were conducted for the benefit of nature of the environment. Hands on training program on Basic Fire Fighting was conducted to the teaching and non-teaching staff members. Women Empowerment programme and programme on Arts from waste were conducted for the improvement of women's living standards. Awareness program on cyber security was conducted to aware the people to improve the skills on protecting computer systems and networks. A training program on cashless transaction was conducted to the students. The college contributes holistic development of students including humanity, empathy, kindness, love, honesty, hard work, mutual respect for others, co-operation, compassion etc., and uplifting the nearby needy people to improve their standard of living for a dignified life.

| File Description                      | Documents  |
|---------------------------------------|--|
| Upload any additional information     | <u>View File</u>   |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r3/3.6.3.pdf |

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

6

| File Description   | Documents        |
|--|------------------|
| Number of awards for extension activities in during the year | <u>View File</u> |
| e-copy of the award letters                                  | <u>View File</u> |
| Any additional information                                   | No File Uploaded |

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

24

| File Description                | Documents        |
|---------------------------------|------------------|
| Reports of the events organized | <u>View File</u> |
| Any additional information      | <u>View File</u> |

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

#### 128

| File Description           | Documents        |
|----------------------------|------------------|
| Reports of the events      | <u>View File</u> |
| Any additional information | <u>View File</u> |

#### 3.7 - Collaboration

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

650

| File Description                               | Documents        |
|--|------------------|
| Copies of documents highlighting collaboration | <u>View File</u> |
| Any additional information                     | <u>View File</u> |

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

14

| File Description  | Documents        |
|---|------------------|
| e-copies of the MoUs with institution/ industry/ corporate house  | <u>View File</u> |
| Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 - Physical Facilities

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

FACILITIES FOR TEACHING LEARNING The institute has enough classrooms to accommodate the teaching needs as per the existing norms laid by UGC. All facilities are being used to the optimum according to a flexible time table generated. Each classroom in the department is provided with LCD projectors. Class rooms, Tutorial rooms, Laboratories and Workshops constructed as per recommendations given in the handbook of AICTE. Every department has been provided with adequate number of labs required as per curriculum. These labs are sufficient enough to cater to the existing strength of students. The Head of Department of respective department or the concerned faculty chalks out a plan/schedule for optimization of labs by the students. Optimal utilization is ensured by utilizing lab facility in an efficient manner. Along with a main library ten departmental libraries enhance the learning process. The modernized main library has a digital section to access e-journals and video lectures. HOSTEL FACILITY Separate Hostel for girls and boys are provided in the college campus. Hostel facilities are earmarked in such a way, that the students can feel homely and pursue their studies.

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | No File Uploaded  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/cr<br>4/4.1.1.pdf |

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

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Apart from giving importance to academic activities, the institute is equipped with required recreation facility with the provision of indoor and outdoor game facilities inside the campus. An Indoor Stadium with state-of-the-art infrastructure is constructed at a cost of 5.5. Crores with 21,587 square feet facility with 4 badminton courts laid with synthetic flooring at par with international standards designed to further promote the health and fitness of the students' community. The college teams participate in many local as well as inter-university tournaments. Competitions with local clubs and other institutions are frequently organized to encourage vibrant sports culture. Physical Education hour (one hour per week) is made compulsory for all students to promote interest in sports for the students and yoga training is also offered. Well facilitated playgrounds for outdoor and indoor games are available inside the campus. On Duties are given to participate in zonal, district and state-level sports meets. A separate gym is available for both boys and girls. Auditorium/Multipurpose hall of size is located in the second floor of the administrative block can accommodate about 1300 people is used for conducting events like college day, seminars, conferences etc. Separate gym facilities are available for boys and girls in the sports complex and are operational between 06:30 AM to 07:30 AM and 04:15 PM to 07:00 PM on working days and on weekends, holidays; it is open between 06:00 AM to 10:00 AM and 04:00 PM to 07:00 PM.

| File Description                      | Documents   |
|---------------------------------------|---|
| Geotagged pictures                    | <u>View File</u>  |
| Upload any additional information     | No File Uploaded  |
| Paste link for additional information | http://kamarajengg.edu.in/NAAC22/AQAR/cr4/4.<br>1.2.pdf |

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

69

| File Description   | Documents        |
|--|------------------|
| Upload any additional information  | No File Uploaded |
| Upload Number of classrooms<br>and seminar halls with ICT<br>enabled facilities (Data<br>Template) | <u>View File</u> |

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

#### 92.72

| File Description   | Documents        |
|--|------------------|
| Upload audited utilization statements                      | <u>View File</u> |
| Details of Expenditure, excluding salary, during the years | <u>View File</u> |
| Any additional information                                 | No File Uploaded |

#### 4.2 - Library as a Learning Resource

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

Period of Automation: 2012 to Till Date Name of ILMS software - Smart Campus Nature of automation (fully or partially) - Fully Version - 2012 Year of Automation - 2012 With a vision to enhance the reading habit of the student community, Unjha V. Dhanasamy Parimaladevi Library has established in a vast area of 1981.08 sq.m. and it has a seating capacity of 500. The fully automated library is well equipped with modern facilities such as Smart Campus ILMS software. Books, Journals, CDROMs, Online Journals, Question banks, Project reports etc. are available here. Video Cameras are placed at strategic points for surveillance. Open Access System is being followed to access the books and journals.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

## 4.2.2 - Institution has access to the following: e- A. Any 4 or more of the above journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

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| File Description   | Documents        |
|--|------------------|
| Details of subscriptions like e-<br>journals, e-books, e-<br>ShodhSindhu, Shodhganga<br>membership | <u>View File</u> |
| Upload any additional information  | No File Uploaded |

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

#### 0.1947

| File Description  | Documents        |
|---|------------------|
| Audited statements of accounts  | <u>View File</u> |
| Any additional information  | No File Uploaded |
| Details of annual expenditure for<br>purchase of books/e-books and<br>journals/e- journals during the<br>year (Data Template) | <u>View File</u> |

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

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

#### 117

| File Description   | Documents        |
|--|------------------|
| Upload details of library usage by teachers and students | <u>View File</u> |
| Any additional information                               | No File Uploaded |

#### 4.3 - IT Infrastructure

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

Totally 1441 computers are available in our college with the different RAM configurations of 2 GB, 4 GB and 8 GB. The OperatingSystem for the computers are Windows 10 (636 Nos), Cent OS 7 (771 Nos) & ubuntu (36 Nos) All the computers are connected with LAN with the speed of 1000 mbps and provided with internet facility. Total number of LAN connections with in the college is 1820 with 106 LAN switches. The internet speedof 155 mbps was provided through optical fiber cables. College campus provided with Wi-Fi facilities

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with the speed of 108 mbps and 300 mbps for accessing both the Internet and Intranet using their personal laptop. 2021 - 2022 No of Computers Purchased Computers Available: - 1441 No. Updation in WIFI Existing Speed: Mixed environment Internet Speed Existing Speed: 85Mbps Updated Speed: 300 Mbps Updation Date: 30.10.2021 LAN Connection No of LAN Connections: 1820 LAN Speed: Gigabit Updation: 66 points RAM RAM Speed: 2GB Updation in RAM: 4GB - 72 No. of 2GB RAM on 20.08.2018 OS Updation in OS: Windows 10- 636 No. & Cent 7 - 771 No. & Ubuntu - 36 No.

| File Description                      | Documents  |
|---------------------------------------|--|
| Upload any additional information     | <u>View File</u>   |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r4/4.4.1.pdf |

#### 4.3.2 - Student - Computer ratio

| Number of Students | Number of Computers |  |
|--------------------|---------------------|--|
| 2435               | 1441                |  |

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

## 4.3.3 - Bandwidth of internet connection in the A. ?50 Mbps Institution and the number of students on campus

| File Description                                  | Documents        |
|---|------------------|
| Details of bandwidth available in the Institution | <u>View File</u> |
| Upload any additional information                 | No File Uploaded |

4.3.4 - Institution has facilities for e-content development:

Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

D. Any one of the above

| File Description   | Documents        |
|--|------------------|
| Upload any additional information                            | <u>View File</u> |
| Paste link for additional information                        | Nil              |
| List of facilities for e-content development (Data Template) | No File Uploaded |

#### 4.4 - Maintenance of Campus Infrastructure

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

#### 394

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Audited statements of accounts    | <u>View File</u> |
| Upload any additional information | No File Uploaded |

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

Maintenance activity is an integral part of the regular activity of this institution. Budget is allotted for maintaining the buildings and equipment. In addition to it, the following are done to monitor the maintenance activity: Annual Stock Taking Movement Registers to monitor equipment's movement inside the college. Complaint / Servicing Register for Infrastructure maintenance of Furniture Intercom Electrical work Building Plumbing House Keeping Log books for monitoring effective usage of the Equipment available in the departments on day to day basis in every department. AMC for copier machines, computers etc.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

#### STUDENT SUPPORT AND PROGRESSION

#### **5.1 - Student Support**

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

990

| File Description  | Documents        |
|---|------------------|
| Upload self-attested letters with<br>the list of students receiving<br>scholarships | <u>View File</u> |
| Upload any additional information   | <u>View File</u> |

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

109

| File Description                        | Documents        |
|---|------------------|
| Upload any additional information       | <u>View File</u> |
| Institutional data in prescribed format | <u>View File</u> |

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

| Α. | All | of | the | above |
|----|-----|----|-----|-------|
|----|-----|----|-----|-------|

| File Description                              | Documents  |
|---|--|
| Link to Institutional website                 | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r5/5.1.3 Language%20Skills.pdf |
| Details of capability development and schemes | <u>View File</u>   |
| Any additional information                    | <u>View File</u>   |

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

2757

| File Description  | Documents        |
|---|------------------|
| Any additional information  | <u>View File</u> |
| Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template) | <u>View File</u> |

# 5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

#### A. All of the above

| File Description  | Documents        |
|---|------------------|
| Minutes of the meetings of<br>students' grievance redressal<br>committee, prevention of sexual<br>harassment committee and Anti-<br>ragging committee | <u>View File</u> |
| Details of student grievances including sexual harassment and ragging cases   | <u>View File</u> |
| Upload any additional information   | <u>View File</u> |

#### **5.2 - Student Progression**

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

#### 328

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Self-attested list of students placed | <u>View File</u> |
| Upload any additional information     | <u>View File</u> |

#### 5.2.2 - Number of outgoing students progressing to higher education

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31

| File Description                                  | Documents        |
|---|------------------|
| Upload supporting data for students/alumni        | <u>View File</u> |
| Details of students who went for higher education | <u>View File</u> |
| Any additional information                        | <u>View File</u> |

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

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

26

| File Description                           | Documents        |
|--|------------------|
| Upload supporting data for students/alumni | <u>View File</u> |
| Any additional information                 | <u>View File</u> |

#### 5.3 - Student Participation and Activities

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

20

| File Description                           | Documents        |
|--|------------------|
| e-copies of award letters and certificates | <u>View File</u> |
| Any additional information                 | <u>View File</u> |

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

Academic Bodies • Class Committee • IQAC Cell Member • PAC Member Class Committee: The four students from each class will be the member of the Class Committee along with Chairperson and subject handling staff members. The meeting will be arranged once in 15 days. IQAC Cell Member: IQAC Cell has student representatives and

they work together to improve and sustain quality in each and every aspect of academic / Co-Curricular and Extra Curricular Activities. PAC Members: One student from each class will be the member along with department faculty, Alumni, Industry Person etc. Administrative Bodies • Anti-Ragging committee • Hostel student Council Committee • Complaints cum Redressal Committee Member Anti-Ragging Committee: Two Students from the college will act as a member in the committee. The meeting will be organized once in three months. Hostel Student Council Committee: Separate Hostel student Council committee is available for Boys and Girls. Ten Students representatives will present in the committee to discuss the general difficulties, menu etc. The meetings will be conducted once in three months. Complaints cum Redressal Committee: Two Students from each department will be the member. They will discuss the general grievances and remedial actions need to be taken. Due to pandemic situation no meeting is conducted during this period

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r5/5.3.2_SR.pdf |

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

8

| File Description   | Documents        |
|--|------------------|
| Report of the event  | <u>View File</u> |
| List of sports and cultural events / competitions organised per year | <u>View File</u> |
| Upload any additional information                                    | No File Uploaded |

#### 5.4 - Alumni Engagement

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

Alumni Association of Kamaraj College of Engineering & Technology has been actively involving in activities of the college through financial and nonfinancial supports. It was registered as a trust on the 19th of August 2015 in the name of "Kamaraj College of Engineering & Technology - Alumni Association". As per the bylaws of

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the trust its' EC meetings, GB meetings are periodically conducted. The measures have been taken to connect all the alumni of the college as life members of the association and are having 6000 life members as on date. As a nodal system, it promotes and encourages department level alumni get together. The lectures will be given by our alumni to the students on the industrial expectation and needs. They motivate the students by providing suggestions and tips to clear competitive exams of state and national level. They also recruit our students in their company. The achievements and advancements in the college is notified to all the members through email. This interconnects all the stakeholders of the college and it extends support for the welfare and development of the college. Our alumni represent various committees/cells/forums of the college like IQAC committee of the college, Board of studies of the departments, Academic council which reveal the active participation of our alumni in holistic development of the college. It is our tradition to invite our alumni for important programs of the college viz. College day and convocation.

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional Information | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r5/5.4.1_Alumni.pdf |

## 5.4.2 - Alumni's financial contribution during E. <2 Lakhs the year

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

#### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

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

Kamaraj College of Engineering and Technology (Autonomous) is governed by elected members of various Mahamai Tharappus of Virudhunagar, with the vision to make this Institution the unique of its kind in the field of Research and Development activities in this part of world and the mission to impart highly innovative and technical knowledge to the urban and unreachable rural student folks

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through total quality education. The Secretary leads the administration by who ensures liberal, democratic and barrier free management aided by Deans, Controller of Examination, Heads of the departments, Training and Placement Cell and other committees. Adequate freedom is provided to faculty members to formulate plans for strengthening teaching-learning process, academic advancement, nurturing multifaceted talent in students and encouraging enthusiastic learners to aim for professional competency. Our institution vision reflects in various needs of society through research forum.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

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

The management of our Institution provides effective academic leadership to the principal by setting goals. The principal involves all faculty members at various levels in participative decision-making process to achieve the goals.

#### CASE STUDY: Monitoring of Teaching-Learning Process

At the Institutional level, Principal, Dean and Associate Dean of Academic courses and all HoDs are involved. The principal organizes meetings with Dean-Academic courses, Controller of Examination (COE) and HoDs for structural delegation of authority and responsibilities. The HoD, at program level, is responsible for assigning courses to faculty members based on competency matrix. They ensure follow up of Academic calendar, issued by Dean-academic courses' office. The Time-tables are prepared well in advance incorporating curricular/co-curricular/extracurricular activities and circulated. At department level, Program Assessment Committee is responsible for deliberating on attainment of course outcomes and program outcomes. At the class room level, Class Chairperson monitors the academic needs of the students and reports to the HoD. The Mentor system is followed where faculty members mentor students and address all their academic and personal needs for an overall development. For continuous improvement of teaching learning process, feedback taken from all stakeholders on various aspects of academics is taken into account.

| File Description  | Documents        |
|---|------------------|
| Upload strategic plan and deployment documents on the website | <u>View File</u> |
| Upload any additional information                             | No File Uploaded |
| Paste link for additional<br>Information                      | Nil              |

#### 6.2 - Strategy Development and Deployment

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

The Institution has a well-defined structure for strategic planning and overall management of resources. Targets are set on consultation with stakeholders including faculty members, alumni, management and the industry representatives.

Activity: Progress in Industrial Institute Interaction Activities:

The Industry Institute Interaction Cell (III Cell) has been functioning in the college actively to promote closer interaction between the institution and the industry. The purpose of the cell is to find out the gap between need of the industry and the end product of the institute. The cell is the bridge between the industry, the real world and the institute. The strategic plan and the deployment activities are uploaded separately. With all the efforts taken towards III Cell activities, Our Institution participated in ARIIA 2021 ranking and Our Institution is adjudged in "Band-Promising" by the Survey. Our Institution is also registered in Institute Innovation Council.

| File Description                                       | Documents   |
|--|---|
| Strategic Plan and deployment documents on the website | <u>View File</u>  |
| Paste link for additional information                  | http://www.kamarajengg.edu.in/NAAC22/AQAR/cr<br>6/6.2.1.pdf |
| Upload any additional information                      | No File Uploaded  |

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

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Our Institution attained autonomous status in 2019 and based on the UGC / AICTE regulations, our institution has the following statutory bodies (Governing body, Academic Council, Board of Studies and Finance Committee) to ensure proper management of academic, financial and general administrative affairs. The Principal is the Academic Head.

The Dean (Academics) plans a Board of Studies and Academic Council meetings, establishes academic rules, and submits recommendations to the Academic Council for approval. The Institution's consultation projects and Intellectual Property Rights (IPR) cell are under the supervision of the Dean (Research). In order to improve the standard of the evaluation process, the Controller of Examination (COE) analyses the examination system. To fulfill the Institution's vision and mission, the department heads encourage departmental activities. The office superintendent is in-charge of overseeing the operations of the administrative office, physical education, site office, human resources, and hostels through the Principal. Through the feedback system, the coordinator of the Internal Quality Assurance Cell (IQAC) works to maintain standards in the curriculum, teaching-learning, and assessment processes and prepares the Annual Quality Assurance Report of the Institution every year.

| File Description                                    | Documents   |
|---|---|
| Paste link to Organogram on the institution webpage | http://www.kamarajengg.edu.in/organisation c hart |
| Upload any additional information                   | No File Uploaded                                  |
| Paste link for additional<br>Information            | Nil   |

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

#### **6.3 - Faculty Empowerment Strategies**

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

The welfare measures encourage teaching and supportive staff to participate in seminars, workshops, conferences and faculty development programmes for their continuous development. Research activities are motivated through various incentives measure. The list of welfare schemes were listed below

- 1. Financial Welfare Schemes
- 2. Leave Benefits
- 3. Academic Benefits for Teaching Faculty
- 4. OtherBenefits

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/cr<br>6/6.3.1.pdf |

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

0

| File Description   | Documents        |
|--|------------------|
| Upload any additional information  | No File Uploaded |
| Details of teachers provided with<br>financial support to attend<br>conference, workshops etc during<br>the year (Data Template) | No File Uploaded |

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

4

| File Description  | Documents        |
|---|------------------|
| Reports of the Human Resource<br>Development Centres (UGC<br>HRDC/ASC or other relevant<br>centres) | <u>View File</u> |
| Upload any additional information   | No File Uploaded |

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

531

| File Description  | Documents        |
|---|------------------|
| Summary of the IQAC report  | <u>View File</u> |
| Reports of the Human Resource<br>Development Centres (UGC<br>ASC or other relevant centers) | <u>View File</u> |
| Upload any additional information   | No File Uploaded |

#### 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Yes, the accounts of the College are audited regularly.

The institution has adequate mechanism for auditing by both Internal and external auditors. External Audit is done by the Auditors after 30th June of the subsequent year. During the course of Internal Audit, all required steps are taken to regularize the accounts. the credit balances, documentary evidences wherever inadequate in respect of payments, compliances of T.D.S., Statutory Formalities, Reconciliation of Student wise balances with the Control Accounts and Bank Reconciliations were documented. External Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. All the details regarding the budget and the audited statement of accounts are uploaded in the college website

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

#### 1046760

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

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

The College has an effective mechanism to monitor the use of financial resources. For any requirement for Procuring equipment's or other major items, the requisition is initiated by the Staff member, forwarded by the respective HOD and is approved by the Principal and the Secretary. The institution purchases quality equipment of higher specifications. The quotations are evaluated & a comparative statement is prepared. Suppliers are called for price negotiation. This ensures that the right equipment is purchased at most competitive price. Further, the financial accounts of the institution are subjected to internal and external audit. Internal and External audits are conducted periodically and any discrepancy observed is brought to the notice of the Principal. Budget is prepared well in advance before the start of every academic year and actual expenses incurred during the year are compared with proposed budget. Any major variation is discussed by the principal with concerned HoD.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

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#### **6.5 - Internal Quality Assurance System**

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

The IQAC is continuously monitoring and ensuring quality at all levels of the institution's functioning, as mentioned below.

Undergraduate student project competition

Technical programs for the teaching and non-teaching staff members

Mock Audit for the National Board of Accreditation (NBA)

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

Class committee meeting

Class Committee meeting is held before the commencement of cycle tests. The faculty members handling the class will be present and difficulties faced by students will be discussed. Targets to be achieved by the students in the Curricular, Co-Curricular and Extra-Curricular activities are informed. The chairperson will give general instructions to the students for academic performance. Class committee meetings are held periodically. Student's expectations are recorded in the report. Class committee meeting reports are prepared as per the IQAC format. The report consists of percentage of syllabus completion, difficulties in understanding the subject and submitted to the principal through head of the department periodically. Based on the report, corrective actions will be done. A progress report is sent to the parents about the performance in internal test.

#### Exam Cell Audit

After completion of cycle test, an auditing team will visit each department. It verify the Cycle test related documents. The team monitors the Planning, Execution, Monitoring and Continuous improvements of the exam cell. A detailed report will be made to the principal. The Principal discuss the overall performance of the exam cell activites with the individual HoD's and gives the suggestions for improvement.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

B. Any 3 of the above

| File Description   | Documents  |
|--|--|
| Paste the web link of annual reports of the Institution            | <pre>chrome-extension://efaidnbmnnnibpcajpcglclef indmkaj/http://www.kamarajengg.edu.in/NAAC22</pre> |
| Upload e-copies of accreditations and certification                | No File Uploaded   |
| Upload details of quality assurance initiatives of the institution | <u>View File</u>   |
| Upload any additional information                                  | No File Uploaded   |

#### INSTITUTIONAL VALUES AND BEST PRACTICES

#### 7.1 - Institutional Values and Social Responsibilities

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

The College is very keen on the desires, aspirations, abilities and professional skills of human resources as men and women, without any discrimination about their gender. Further extensive efforts are taken into account for the communal and artistic factors involved in gender-based exclusion and prejudice in the most diverse spheres of community and personal life.

Committees like Complaints cum Redressal and Anti ragging are established to monitor and address safety, security and social issues of the students. CCTV cameras are installed inside the college premises which provide 24 hours surveillance in order to observe the ongoing activities. The College organizes seminars/special talks on a regular basis in order to endorse social values such as gender equality, gender sensitivity and highlights social problems such as women's safety, dowry issues, women's health etc.

Mentoring is provided to the students for one hour in every week in all the departments. Counselling focuses on the problems faced by the students during examinations like fear, lack of concentration, time management and failure. Such students were identified and special counselling was given to them.

Repose room, Rest zone, gym and hostel facilities are available for both boys and girls with all necessary amenities.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

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

| File Description               | Documents        |
|--------------------------------|------------------|
| Geotagged Photographs          | <u>View File</u> |
| Any other relevant information | <u>View File</u> |

B. Any 3 of the above

- 7.1.3 Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)
- 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste Degradable and non- degradable waste bins segregate wastes generated inside campus.

Solid waste management • Food wastes produced from hostel and canteen are 22Kg/day and 25Kg/day respectively is sent to isolated secured dump yard, converting into manure. • Stationery wastes produced inside the campus are for recycling. Sanitary pad disposal machine is available in ladies hostel for safe disposal. Green waste Green wastes from trees & plants are collected, filled with soil to produce manure. Liquid Waste Management Waste water collected is recycled in Sewage Treatment Plant for gardening purpose. Biomedical waste management

• Microbes(Non-Pathogenic) in agar medium are properly decontaminated at 120°C for 20 minutes in autoclave, collected in bins and sent to dumpyard. Fumigation is done periodically in Biotechnology laboratories to curb microorganisms' growth. • Dispensary wastes are incinerated; non-degradable wastes from chemical laboratories are collected and discarded safely and no hazardous wastes are produced. Note: As biomedical wastes are not being generated inside campus for the past 6 months, dumpyard is not active now. E-Waste Management E-waste collected from our institution is sent to JTNK battery for recycling and reuse.

Hazardous chemicals and radioactive waste management We don't use isotopes because of restrictions to use radioactive products.

| File Description  | Documents        |
|---|------------------|
| Relevant documents like agreements/MoUs with Government and other approved agencies | No File Uploaded |
| Geotagged photographs of the facilities   | <u>View File</u> |
| Any other relevant information  | No File Uploaded |

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance

A. Any 4 or all of the above

## of water bodies and distribution system in the campus

| File Description                                 | Documents        |
|--|------------------|
| Geotagged photographs / videos of the facilities | <u>View File</u> |
| Any other relevant information                   | <u>View File</u> |

#### 7.1.5 - Green campus initiatives include

## 7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- A. Any 4 or All of the above
- 1. Restricted entry of automobiles
- 2. Use of bicycles/ Battery-powered vehicles
- 3. Pedestrian-friendly pathways
- 4. Ban on use of plastic
- 5. Landscaping

| File Description   | Documents        |
|--|------------------|
| Geotagged photos / videos of the facilities                        | <u>View File</u> |
| Various policy documents / decisions circulated for implementation | No File Uploaded |
| Any other relevant documents                                       | No File Uploaded |

#### 7.1.6 - Quality audits on environment and energy undertaken by the institution

# 7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

D. Any 1 of the above

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

| File Description  | Documents        |
|---|------------------|
| Reports on environment and energy audits submitted by the auditing agency | <u>View File</u> |
| Certification by the auditing agency                                      | No File Uploaded |
| Certificates of the awards received                                       | No File Uploaded |
| Any other relevant information  | No File Uploaded |

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

| File Description   | Documents        |
|--|------------------|
| Geotagged photographs / videos of facilities                 | <u>View File</u> |
| Policy documents and brochures on the support to be provided | No File Uploaded |
| Details of the software procured for providing assistance    | No File Uploaded |
| Any other relevant information                               | No File Uploaded |

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Cultural and Socioeconomic Diversity

Diversity in college campus enriches the experience in various ways. Our college manifests a mixed ethnic community area where multiple culture and tradition exists.

• Based on that in the past five years Kamaraj College of

Engineering and Technology has admitted students from all the religion.

- Similarly, faculty members also belong to different religions.
- Special privilege has been given to the Muslim faculty members and students to offer prayers on all Fridays in both the boys and girls hostel.
- Similarly, Christian faculty members and students are also given privileges to offer prayers on all the days and especially on Sundays in the hostel.
- We have Ganapathy temple at the entrance of our college as a holy place to bless all of us for our well-being.
- Students from various parts of Tamil Nadu and from various states across the country join in our institution.

#### Linguistic Diversity

 To give importance and promote other languages our college has established Hindi Club, German Club and many language related activities and certified courses are conducted in these clubs.

| File Description   | Documents        |
|--|------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | <u>View File</u> |

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Citizen Duties

#### National Day Celebrations

Independence Day, the 15th of August and Republic day, the
 26th of January are being celebrated every year.

#### Constitution of India - Audit Course

 As per the AICTE recommendations students mandatorily study the Constitution of India as the audit course.

#### Tax Payment by the Teaching Faculty

 It is our prime duty to pay tax for our country's well-being and so all faculty members pay their tax as per Indian law.

#### Citizen Rights

- o Our college organizes activities like Voters day celebration and Voter ID enrollment awareness programme.
- Students of our college start with an Oath Taking Ceremony during which everyone takes his/her Pledge.
- Students take a pledge on National unity day

#### Citizen Responsibilities

Gender Equity For Lady Faculty and Girl Students

o Our college has been providing a platform for women faculty members and girl students to bring out their talents and ideas under various forums.

Collection of Anti Ragging Forms

The students and parents/ guardians are required to submit online affidavit at the beginning of the Semester with regard to curbing ragging menace.

| File Description  | Documents        |
|---|------------------|
| Details of activities that inculcate values necessary to transform students into responsible citizens | <u>View File</u> |
| Any other relevant information  | No File Uploaded |

7.1.10 - The institution has a prescribed code C. Any 2 of the above of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

| File Description   | Documents        |
|--|------------------|
| Code of Ethics - policy document   | <u>View File</u> |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims | No File Uploaded |
| Any other relevant information   | No File Uploaded |

## 7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Institution commemorates National and International festivals by organizing various events on the birth and death anniversary of great personalities. Due to Corona pandemic majority of the festivals were celebrated through Online mode.

- Important days like International yoga day, Kargil Vijay Diwas Day, Constitution day, Earth day, Independence day, Republic day, NCC day etc.., are celebrated and various competitions are conducted. Prizes and certificates are distributed to the winners.
- To commemorate the birth anniversary of Bharat Ratna. Dr.A.P.J.AbdulKalam, every year 15th October is celebrated as World Students' Day.
- The son of soil, K. Kamaraj strived to eradicate illiteracy by introducing free and compulsory education up to the eleventh standard. To honor such a great leader, his birthday is celebrated as Educational Day on 15th July of every year.
- Indian liberation warrior, Netaji Subhash Chandra Bose, birthday is celebrated on 23rd January by conducting various events for students.
- The birth anniversary of Sardar Vallabhbhai Patel is observed on 31st October as National Unity Day. The day is celebrated with patriotic events.
- With the help of NSS volunteers and NCC cadets, International yoga day is celebrated on 21st January and various competitions are conducted for students.

| File Description   | Documents        |
|--|------------------|
| Annual report of the celebrations and commemorative events for during the year | <u>View File</u> |
| Geotagged photographs of some of the events                                    | No File Uploaded |
| Any other relevant information   | No File Uploaded |

#### 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice:System and Process of Effective Implementation of OBE

Objective of the Practice:

To ensuring graduating engineers from all programs demonstrate expected Graduate attributes to their global recognition.

#### The Context:

Traditionally, higher education in India has been teacher centric. As a result, a large number of graduates had poor employability. In the OBE, to change higher education from teacher centric to student centric.

#### The Practice:

- Improve instruction methods to focus on student centric learning, to achieve the Graduate attributes (POs)
- Establish the Assessment and Evaluation pattern
- In House CO & PO attainment calculation tool to assess the attainment of CO & PO.
- Revision of Course target, CO statement and teaching learning pedagogy for the next batch of students based on course closure report.

#### Evidence of Success:

- Enhanced content delivery, quality of project and assessment have been changed.
- Enhanced number of awards secured by students in National and International technical competitions/professional body activities.
- Enhanced ON/OFF campus placement.
- Continuous improvement in the average and highest pay package offered

Problems Encountered and Resources Required:

- OBE implemented from January 2017. Faculty need training to adopt OBE from traditional method of teaching.
- Student engagement in the classroom is a challenging task.

| File Description                            | Documents   |
|---|---|
| Best practices in the Institutional website | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r7/7.2.1%20Best%20practice%20I.pdf  |
| Any other relevant information              | http://www.kamarajengg.edu.in/NAAC22/AQAR1/c<br>r7/7.2.1%20Best%20practice%20II.pdf |

#### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Placement plays an integral part of the academic structure and is a priority to our institution, which continues to steer towards the educational vision of Karmaveerar "Bharat Ratna" K. Kamaraj. The institution has a well-established Training Development & Placement Cell (TDP Cell) that helps students improve their skills and uplift them by providing more placement opportunities.

For the benefit of students, the institution, through TDP Cell, has

facilitated well-designed and structured programs, including soft skill programs, communication skills, life skills, and computing skills. These programs help the students to develop their leadership qualities, responsibility, communication and presentation skills. Consistent efforts have been taken by the TDP cell to conduct Aptitude training in the regular academic schedule to facilitate the students in preparation for the interviews and to face competitive exams.

The employability skills are often modified through the close association with numerous companies and also based on the feedback of employers that keep us up to date in planning and executing the training modules for students.

In 2021- 2022, TDP Cell enabled 328 students to get placed in reputed companies, resulting in 351 offers with an average salary package of 3.4 LPA.

#### Part B

#### **CURRICULAR ASPECTS**

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The world's knowledge environment is changing quickly, as mentioned in National Education Policy (NEP) 2020. The need for skilled workers is rising as a result of several significant scientific and technical advancements, notably in the fields of Mathematics, Computer Science, and Data Science as well as interdisciplinary skills in science, social science, and humanities. Therefore, new Curriculum R2021 was created in accordance with the regulatory standards of AICTE, the affiliated university, the governing body, and the academic council of the institution, and it was put into effect from the academic year 2021-2022.

The appropriate Programme Head and Programme Coordinator designate Domain Experts and Domain Course In-Charges to develop the Programme Specific Outcomes (PSOs), courses offered in each programme, their content, and the mapping of COs with POs and PSOs. Members of the BoS committee include internal faculties, academics from reputable institutions, business professionals, and alumni. Before authorising PSOs and courses, the Board of Studies (BoS) committee of the appropriate programme considers how well they would help students achieve the demands at various levels. Every semester, a meeting will be conducted to discuss any course adjustments that may be necessary, depending on input from stakeholders. In the meeting of the academic council, the minutes of BoS meetings of individual Programmes are submitted for approval.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload additional information, if any | <u>View File</u> |
| Link for additional information       | Nil              |

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

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0

| File Description                                    | Documents        |
|---|------------------|
| Minutes of relevant Academic<br>Council/BOS meeting | No File Uploaded |
| Details of syllabus revision during the year        | <u>View File</u> |
| Any additional information                          | No File Uploaded |

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

48

| File Description   | Documents        |
|--|------------------|
| Curriculum / Syllabus of such courses  | <u>View File</u> |
| Minutes of the Boards of<br>Studies/ Academic Council<br>meetings with approval for<br>these courses | No File Uploaded |
| MoUs with relevant organizations for these courses, if any   | No File Uploaded |
| Any additional information   | No File Uploaded |

#### 1.2 - Academic Flexibility

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

10

| File Description  | Documents        |
|---|------------------|
| Minutes of relevant Academic<br>Council/BoS meetings    | No File Uploaded |
| Any additional information                              | No File Uploaded |
| Institutional data in prescribed format (Data Template) | <u>View File</u> |

## ${\bf 1.2.2}$ - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

18

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| File Description                                     | Documents        |
|--|------------------|
| Minutes of relevant Academic<br>Council/BoS meetings | No File Uploaded |
| Any additional information                           | No File Uploaded |
| List of Add on /Certificate programs (Data Template) | <u>View File</u> |

#### 1.3 - Curriculum Enrichment

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

In our Institution, equal chances are offered to the irrespective of the genders of our student community. Both boys and girls are given equal importance in terms of admissions, placement training, curricular, extra-curricular and co-curricular activities. Hence, gender based issues will not be emerged.

Currently, we follow the autonomous regulation 2020 & regulation 2021. The institution strives its level best to integrate the cross cutting issues through curriculum. As per AICTE Model Curriculum Universal Human Value (UHV) a three-week mandatory Student Induction Program (SIP) is conducted regularly for newly admitted undergraduate students to prepare for the new stage in their life. Through Choice Based Credit System (CBCS) the students will undergo any one course (as a core or an elective course) related to ethics or gender or human values or environment and sustainability.

Awareness programmes, camps, rallies etc are organized under NCC and NSS schemes. Tree plantation is done around the campus and nearby villages periodically by the gardening club and NSS club in the view of environment and sustainability.

| File Description  | Documents        |
|---|------------------|
| Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum | <u>View File</u> |
| Any additional information  | No File Uploaded |

#### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered

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#### during the year

22

| File Description   | Documents        |
|--|------------------|
| List of value-added courses                                    | <u>View File</u> |
| Brochure or any other document relating to value-added courses | <u>View File</u> |
| Any additional information                                     | No File Uploaded |

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

743

| File Description           | Documents        |
|----------------------------|------------------|
| List of students enrolled  | <u>View File</u> |
| Any additional information | <u>View File</u> |

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

835

| File Description  | Documents        |
|---|------------------|
| List of programmes and number of students undertaking field projects / internships / student projects | <u>View File</u> |
| Any additional information  | No File Uploaded |

#### 1.4 - Feedback System

| A. | All | 4      | of       | the         | above           |
|----|-----|--------|----------|-------------|-----------------|
|    |     |        |          |             |                 |
|    |     |        |          |             |                 |
|    |     |        |          |             |                 |
|    | A.  | A. All | A. All 4 | A. All 4 of | A. All 4 of the |

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| File Description  | Documents  |
|---|--|
| Provide the URL for stakeholders' feedback report   | http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr1/1.4.1.pdf |
| Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management | No File Uploaded   |
| Any additional information  | No File Uploaded   |

## **1.4.2 - The feedback system of the Institution comprises the following**

C. Feedback collected and analysed

| File Description                              | Documents  |
|---|--|
| Provide URL for stakeholders' feedback report | http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr1/1.4.2.pdf |
| Any additional information                    | No File Uploaded   |

#### TEACHING-LEARNING AND EVALUATION

#### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

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

458

| File Description                        | Documents        |
|---|------------------|
| Any additional information              | <u>View File</u> |
| Institutional data in prescribed format | <u>View File</u> |

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

436

| File Description  | Documents        |
|---|------------------|
| Any additional information                                    | <u>View File</u> |
| Number of seats filled against seats reserved (Data Template) | <u>View File</u> |

#### 2.2 - Catering to Student Diversity

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

In our institution, faculty members are assigned with responsibility as Mentor and each mentor will have an average of 15 to 20 students. The students are continuously evaluated through internal assessment and their performance is continuously monitored through the interaction in classroom & laboratory. Once the slow learners and advanced learners are identified through the continuous assessment and monitoring various support systems are provided for the both level of learners by our institution.

Methodologies to support slow learners:

- Faculty mentors closely monitor the academic progress of the students and support them in improving their performance.
- Activity based content delivery is adopted during the lecture for better understanding of concepts.
- Remedial classes and Arrear coaching are given to the slow learners in order to support their graduation within the stipulated time.

Methodologies to support Advanced Learners:

- Advanced learners are encouraged to participate in national level competitions like Hackathon.
- Students get more exposure on technical aspects and higher studies.
- Students are encouraged to clear national level exams like GATE which increases the cognitive level of the students.
- Students are motivated to do self-learning.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

#### 2.2.2 - Student - Teacher (full-time) ratio

| Year       | Number of Students | Number of Teachers |
|------------|--------------------|--------------------|
| 13/07/2022 | 1911               | 169                |

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | <u>View File</u> |

#### 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:

The institution ensures the use of student centric methodology such as experiential, participative learning and problem solving methodologies in teaching-learning process. This enables the students to be active participants rather than being passive listeners. The learning becomes more experiential, participatory and socialistic by organizing activities like group seminars, quizzes and assignmentsThe institution ensures the use of student centric methodology such as experiential, participative learning and problem solving methodologies in teaching-learning process. This enables the students to be active participants rather than being passive listeners. The learning becomes more experiential, participatory and socialistic by organizing activities like group seminars, quizzes and assignments.

#### a) Experiential Learning:

The institution imparts the following experiential learning practices to enhance creativity and cognitive levels of the students

- Students are encouraged to take up innovative projects and mini projects.
- NPTEL courses encourages experiential learning by involving both teachers and students to learn together.

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- Professional chapters like ISTE helps to improve the learning skills of the students.
- Internship helps the students to work in industry projects.
  b)Participative Learning:

Students participate in various activities such as

- Seminars
- Guest Lectures
- Conferences
- Group Activity c ) Problem Solving Methodologies
- Students develop mini projects beyond the curriculum.
- Students implement real time projects and participate in technical contests in order to improve critical thinking, creativity and problem solving skills.
- Case studies, aptitude and logical training are provided to students to enrich their problem-solving skills.
- Students solve their lab exercises through E-Box.

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | <u>View File</u> |
| Link for additional Information   | Nil              |

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

The institution is continuously encouraging modern innovative ICT-enabled tools in all aspects of the curriculum. The ICT-enabled tools promote student engagement and enhance the learning ability of students. Thereby it forges a new path of teaching excellence thus contributing to quality education.

All the classrooms are well equipped with LCD projectors that help to deliver interactive lectures and demonstrations through animations, powerpoint presentations, videos.Campus is enabled with Wi-Fi internet facility with 155 Mbps bandwidth. This allows the students to enrich their knowledge and skills by exploring the different online platforms. The institution has a state of art digital library, well equipped with e-books and subscribed e-journals which serve as a knowledge resource centre.

1. ICT based Teaching Methodologies:

| White board-Tutorial point   |
|------------------------------|
| Driodcam                     |
| Online simulators            |
| 8085 simulator app.          |
| NPTEL lectures.              |
| Slide share                  |
| Google classroom             |
| Programiz                    |
| Blender                      |
| Weka                         |
| Canva                        |
| MS Teams                     |
| ZoomIt                       |
| Python visualizer            |
| Bingo                        |
| 1. ICT in Assessment Methods |
|                              |
| • Quiz Platforms:            |
| Kahoot                       |
| Outlook, Google Forms        |
| Easy Test Maker              |
| • Interactive Assessments:   |
| Google classroom             |
| Canvas                       |

| Quizziz   |
|---|
| Easy test maker   |
| Proprofs Quiz   |
| Edmodo  |
| Polly   |
| • Designing Posters/Charts:                                 |
| Canva   |
| Padlet  |
| <ul><li>Interactive Seminar</li><li>Lab exercises</li></ul> |
| IIT Virtual Lab   |
| E-Box   |
| Labview   |
| MATLAB  |
| 8051-Neutrino virtual lab                                   |
| • Group Discussion:   |
| Online Discussion   |
| Think Pair Share  |
| Picture free writing  |
| • Innovative Class Games:                                   |
| Crossword, word search puzzle                               |
| Educaplay   |
| Role play   |

| File Description   | Documents  |
|--|--|
| Provide link for webpage<br>describing ICT enabled tools<br>including online resources for<br>effective teaching and learning<br>process | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr2/2.3.2.pdf |
| Upload any additional information  | <u>View File</u>   |

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

#### 2.3.3.1 - Number of mentors

#### 169

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

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

Before the commencement of every academic year, the Institution prepares and publishes 'Academic Calendar' for all the programs. It is made known to the stakeholders through the college website. The Academic Calendar includes the details of various events to be organized and holidays, etc. Every semester, Dean Academics releases "Calendar for Academic Activities" with the approval of the Principal. It is made known to the faculty members through College website. Calendar for Academic Activities includes the details of various academic activities, tentative internal assessment schedules and the number of working days.

Teaching Faculty is required to prepare the Course file in a predefined format given by Internal Quality Assurance Cell of the Institution. The course file comprises syllabus, teaching plan (course plan), detailed course information with course outcomes, lecture notes, Model question paper, assignments rubrics. The course file is verified by the HOD at the beginning of the semester and during the semester regularly to check for compliance with the set standards. At the end of every academic year, the institution conducts an audit to check for the adherence to the academic calendar and teaching plans.

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| File Description  | Documents        |
|---|------------------|
| Upload the Academic Calendar and Teaching Plans during the year | <u>View File</u> |

#### 2.4 - Teacher Profile and Quality

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

169

| File Description   | Documents        |
|--|------------------|
| Year-wise full-time teachers and sanctioned posts for the year     | <u>View File</u> |
| List of the faculty members<br>authenticated by the Head of<br>HEI | <u>View File</u> |
| Any additional information   | No File Uploaded |

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

73

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

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

1656

| File Description  | Documents        |
|---|------------------|
| List of teachers including their PAN, designation, Department and details of their experience | <u>View File</u> |
| Any additional information  | <u>View File</u> |

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#### 2.5 - Evaluation Process and Reforms

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

30

| File Description   | Documents        |
|--|------------------|
| List of Programmes and the<br>date of last semester-end / year-<br>end examinations and the date<br>of declaration of result | <u>View File</u> |
| Any additional information   | <u>View File</u> |

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

6

| File Description  | Documents        |
|---|------------------|
| Upload the number of complaints and total number of students who appeared for exams during the year | <u>View File</u> |
| Upload any additional information   | No File Uploaded |

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

Examination procedures

All theory courses, practical courses, and project work are evaluated for a maximum of 100 marks. Performance in each course of study is evaluated based on:

- i) Continuous Internal Assessment System
- ii) End Semester Examination

The institute has an Examination Cell headed by the Controller of Examination for the smooth conduct of internal and end-semester examinations.

Processes integrating IT

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Continuous internal assessment comprises of three cycle tests of written practice consisting of 2 marks/ 8 marks/ 12 marks/13 marks questions and one /three assignments.

The assessment (cycle test) will be conducted as per the schedule given in the academic calendar. Each test carries a maximum of 50 marks and will be conducted for a duration of 90 Minutes.

R2021,R2020

In R2020, R2021 Internal marks shall be calculated by considering the average of the best two Internals.

R2017

In the 2017 regulation, Internal marks are given equal weightage to all three tests.

End semester Theory & Laboratory Examinations

The end-semester theory examinations are conducted through offline mode. All the faculty members evaluate the paper and enter the marks in ROVAN software.

Co-Po mapping is also done for the evaluated papers in ROVAN software.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

#### 2.6 - Student Performance and Learning Outcomes

- 2.6.1 Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students
  - Institution has stated the programme outcomes as described by NBA for all the programmes. Programme specific outcomes are framed by the concerned department and approved by Programme Assessment Committee (PAC).
  - Course outcomes of each course are framed by the subject experts and are approved by the head of the concerndepartment.
  - After Autonomous, Regulation 2020 (KCET R2020) and

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Regulation 2021(KCET R2021) curriculum and syllabus are framed by the Institution. All the courses are grouped into various domains and the faculty members in each domain frame the course outcomes. Course Outcomes are approved by the subject expert and the Head of the Department. The syllabus along with the course outcomes are presented in the Board of Studies (BoS) meetings. The suggestions and modifications given by the BoS members are incorporated in the syllabus.

- The course outcomes are disseminated to the students through
  - Course introduction class by the course instructor
  - Course plans
  - Lab manuals/Records
  - Project reports
  - Internal examination question papers
  - PAC meeting
- Programme outcomes and programme specific outcomes are disseminated to the teachers and students through
  - Institution Website
  - Displays in Departments
  - Displays in Laboratories
  - Lab manuals/Records
  - Parents Teachers meetings

| File Description   | Documents        |
|--|------------------|
| Upload COs for all courses (exemplars from the Glossary) | <u>View File</u> |
| Upload any additional information                        | <u>View File</u> |
| Link for additional Information                          | Nil              |

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

- 2.6.2 Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution
  - Program Outcome and Course Outcome are evaluated using the in-house tool (copyrighted excel sheet-Reg No: SW13027/2019) developed by our faculty members.
  - Attainment levels of the programme outcomes and course outcomes of the course are calculated for R2017, KCET R2020 and KCET R2021 autonomous curriculum.
  - The Institution ensures the attainment of COs-POs-PSOs

- through direct and indirect assessment.
- The tools and procedure for the direct and indirect attaiment is provided in the below link.http://www.kamaraje ngg.edu.in/NAAC22/AQAR1/cr2/2.6.2.pdf

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

#### 2.6.3 - Pass Percentage of students

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

546

| File Description   | Documents        |
|--|------------------|
| Upload list of Programmes and<br>number of students appear for<br>and passed in the final year<br>examinations | <u>View File</u> |
| Upload any additional information  | <u>View File</u> |
| Paste link for the annual report   | Nil              |

#### 2.7 - Student Satisfaction Survey

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

http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr2/2.7.1.pdf

#### RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 - Promotion of Research and Facilities

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

Kamaraj College of Engineering and Technology has a well-defined policy for promoting research. The detailed institute research policy is available in our college website. In order to strengthen the research profile of the Institute, our institute has established the R & D Cell in which faculty members from each

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department act as members and it is led by Dean Research. The faculty members are encouraged to undertake sponsored research and consultancy projects. Our institute supports research by providing research lab/facility in each department and the faculty can utilize after working hours also. Institute supports faculty member's research by providing night stay and food if required.

As a follow-up of research promotion policy, the following initiatives have been taken in this period. (June 2021 - August 2022).

- Study leave, sabbatical leave, duty leave to faculty members for doing research
- Paid leave for preparing synopsis, thesis and viva voce for faculty members doing part time research
- Institute appreciates and honouring the faculty members who published good research work
- Financial assistance to faculty members to visit research lab / industries
- Encouraging faculty members to apply forsummer research fellowship
- Seed money Rs. 2.75 lakhs given to faculty members for research
- Intellectual Property Rights (IPR) Cell established and various awareness workshops organized for students and faculty members

Further, our college has been recognized as a "Scientific and Industrial Research Organization (SIRO)" by the Department of Scientific and Industrial Research (DSIR), New Delhi.

| File Description   | Documents  |
|--|--|
| Upload the Minutes of the<br>Governing Council/<br>Syndicate/Board of<br>Management related to research<br>promotion policy adoption | <u>View File</u>   |
| Provide URL of policy document on promotion of research uploaded on the website  | http://www.kamarajengg.edu.in/docs/Institu<br>te%20Research%20Policy.pdf |
| Any additional information   | No File Uploaded   |

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

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

#### 2.75

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

### ${\bf 3.1.3 - Number\ of\ teachers\ who\ were\ awarded\ national\ /\ international\ fellowship(s)\ for\ advanced\ studies/research\ during\ the\ year}$

1

| File Description  | Documents        |
|---|------------------|
| e-copies of the award letters of<br>the teachers                  | <u>View File</u> |
| List of teachers and details of their international fellowship(s) | <u>View File</u> |
| Any additional information  | No File Uploaded |

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#### 3.2 - Resource Mobilization for Research

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

#### 2.28

| File Description  | Documents        |
|---|------------------|
| e-copies of the grant award<br>letters for research projects<br>sponsored by non-governmental<br>agencies/organizations | <u>View File</u> |
| List of projects and grant details  | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### 3.2.2 - Number of teachers having research projects during the year

#### 11

| File Description                          | Documents  |
|---|--|
| Upload any additional information         | No File Uploaded   |
| Paste link for additional Information     | http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr3/3.2.1.pdf |
| List of research projects during the year | <u>View File</u>   |

#### 3.2.3 - Number of teachers recognised as research guides

33

| File Description  | Documents        |
|---|------------------|
| Upload copies of the letter of<br>the university recognizing<br>teachers as research guides | <u>View File</u> |
| Institutional data in Prescribed format   | No File Uploaded |

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

6

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| File Description                          | Documents   |
|---|---|
| Supporting document from Funding Agencies | <u>View File</u>  |
| Paste link to funding agencies' website   | https://www.tanscst.nic.in/, https://www.a<br>icte-india.org/schemes/staff-development-<br>schemes, https://www.faer.ac.in/2223-faer-<br>scholar-awards |
| Any additional information                | No File Uploaded  |

#### 3.3 - Innovation Ecosystem

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

Kamaraj College of Engineering and Technology have received funds from DST- SERB, DBT, DRDO. Our institute is recognized as Scientific and Industrial Research Organization by DSIR.

The Research and Development Cell encourages faculty members to publish papers and book chapters in reputed journals. Three faculty members from MECH and EEE have been listed by Elsevier BV, Stanford University, as top 2% scientists worldwide. Thirteen faculty members from various departments have been listed as world scientists and ranked 147 in private category by AD scientific index. Our institute is appreciated for the active participation in NIPAM by the Government of India.

Our Industry Institute Interaction Cell provides the industrial exposure to faculty members on industrial practices which helps to guide the students to win prizes awarded by TNSCST and FAER for their project. Our Institute Innovation Cell got 3.5-star rating by Ministry of Education, Government of India to promote Innovation and Start up.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

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#### 27

| File Description                                     | Documents        |
|--|------------------|
| Report of the events                                 | <u>View File</u> |
| List of workshops/seminars conducted during the year | <u>View File</u> |
| Any additional information                           | No File Uploaded |

#### 3.4 - Research Publications and Awards

| 3.4.1 - The Institution ensures               |
|---|
| implementation of its Code of Ethics for      |
| Research uploaded in the website through      |
| the following: Research Advisory Committee    |
| <b>Ethics Committee Inclusion of Research</b> |
| Ethics in the research methodology course     |
| work Plagiarism check through                 |
| authenticated software                        |

B. Any 3 of the above

| File Description  | Documents        |
|---|------------------|
| Code of Ethics for Research,<br>Research Advisory Committee<br>and Ethics Committee<br>constitution and list of members<br>of these committees, software<br>used for plagiarism check | <u>View File</u> |
| Any additional information  | No File Uploaded |

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

#### 3.4.2.1 - Number of PhD students registered during the year

13

| File Description   | Documents        |
|--|------------------|
| URL to the research page on HEI website  | Nil              |
| List of PhD scholars and details like name of the guide, title of thesis, and year of registration | <u>View File</u> |
| Any additional information   | <u>View File</u> |

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

85

| File Description  | Documents        |
|---|------------------|
| List of research papers by title, author, department, and year of publication | <u>View File</u> |
| Any additional information  | <u>View File</u> |

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

8

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/<br>cr3/3.4.4.pdf |

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

#### 3.4.5.1 - Total number of Citations in Scopus during the year

5104

| File Description                                  | Documents        |
|---|------------------|
| Any additional information                        | <u>View File</u> |
| Bibliometrics of the publications during the year | <u>View File</u> |

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

#### 3.4.6.1 - h-index of Scopus during the year

59

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| File Description   | Documents        |
|--|------------------|
| Bibiliometrics of publications<br>based on Scopus/ Web of<br>Science - h-index of the<br>Institution | <u>View File</u> |
| Any additional information   | <u>View File</u> |

#### 3.5 - Consultancy

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

#### 0.57575

| File Description   | Documents        |
|--|------------------|
| Audited statements of accounts indicating the revenue generated through consultancy and corporate training | <u>View File</u> |
| List of consultants and revenue generated by them  | <u>View File</u> |
| Any additional information   | <u>View File</u> |

### ${\bf 3.5.2 - Total\ amount\ spent\ on\ developing\ facilities,\ training\ teachers\ and\ clerical/project\ staff\ for\ undertaking\ consultancy\ during\ the\ year}$

0

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

#### 3.6 - Extension Activities

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

A young team of one NSS Unit with 48 volunteers, a group of NCC cadets comprising 50 cadets and different service channels such as Youth Red Cross, Fine Arts club conducted activities during last year aimed for the empowerment of people and the environment of nearby villages. Various public awareness programmes such as COVID camp, Anti-drug, Blood donation camp were conducted for the welfare of the people of villages. Various awareness programs on Environmental issues through Swachh Bharat, Green village, plastic pollution and Tree plantation were conducted for the benefit of nature of the environment. Hands on training program on Basic Fire Fighting was conducted to the teaching and nonteaching staff members. Women Empowerment programme and programme on Arts from waste were conducted for the improvement of women's living standards. Awareness program on cyber security was conducted to aware the people to improve the skills on protecting computer systems and networks. A training program on cashless transaction was conducted to the students. The college contributes holistic development of students including humanity, empathy, kindness, love, honesty, hard work, mutual respect for others, co-operation, compassion etc., and uplifting the nearby needy people to improve their standard of living for a dignified life.

| File Description                      | Documents  |
|---------------------------------------|--|
| Upload any additional information     | <u>View File</u>   |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr3/3.6.3.pdf |

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

6

| File Description   | Documents        |
|--|------------------|
| Number of awards for extension activities in during the year | <u>View File</u> |
| e-copy of the award letters                                  | <u>View File</u> |
| Any additional information                                   | No File Uploaded |

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

24

| File Description                | Documents        |
|---------------------------------|------------------|
| Reports of the events organized | <u>View File</u> |
| Any additional information      | <u>View File</u> |

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

128

| File Description           | Documents        |
|----------------------------|------------------|
| Reports of the events      | <u>View File</u> |
| Any additional information | <u>View File</u> |

#### 3.7 - Collaboration

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

650

| File Description                               | Documents        |
|--|------------------|
| Copies of documents highlighting collaboration | <u>View File</u> |
| Any additional information                     | <u>View File</u> |

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

14

| File Description  | Documents        |
|---|------------------|
| e-copies of the MoUs with institution/ industry/ corporate house  | <u>View File</u> |
| Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year | <u>View File</u> |
| Any additional information  | <u>View File</u> |

#### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 - Physical Facilities

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

FACILITIES FOR TEACHING LEARNING The institute has enough classrooms to accommodate the teaching needs as per the existing norms laid by UGC. All facilities are being used to the optimum according to a flexible time table generated. Each classroom in the department is provided with LCD projectors. Class rooms, Tutorial rooms, Laboratories and Workshops constructed as per recommendations given in the handbook of AICTE. Every department has been provided with adequate number of labs required as per curriculum. These labs are sufficient enough to cater to the existing strength of students. The Head of Department of respective department or the concerned faculty chalks out a plan/schedule for optimization of labs by the students. Optimal utilization is ensured by utilizing lab facility in an efficient manner. Along with a main library ten departmental libraries enhance the learning process. The modernized main library has a digital section to access e-journals and video lectures. HOSTEL FACILITY Separate Hostel for girls and boys are provided in the college campus. Hostel facilities are earmarked in such a way, that the students can feel homely and pursue their studies.

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | No File Uploaded  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/<br>cr4/4.1.1.pdf |

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

Apart from giving importance to academic activities, the institute is equipped with required recreation facility with the provision of indoor and outdoor game facilities inside the campus. An Indoor Stadium with state-of-the-art infrastructure is constructed at a cost of 5.5. Crores with 21,587 square feet facility with 4 badminton courts laid with synthetic flooring at par with international standards designed to further promote the health and fitness of the students' community. The college teams participate in many local as well as inter-university tournaments. Competitions with local clubs and other institutions are frequently organized to encourage vibrant sports culture. Physical Education hour (one hour per week) is made compulsory for all students to promote interest in sports for the students and yoga training is also offered. Well facilitated playgrounds for outdoor and indoor games are available inside the campus. On Duties are given to participate in zonal, district and statelevel sports meets. A separate gym is available for both boys and girls. Auditorium/Multipurpose hall of size is located in the second floor of the administrative block can accommodate about 1300 people is used for conducting events like college day, seminars, conferences etc. Separate gym facilities are available for boys and girls in the sports complex and are operational between 06:30 AM to 07:30 AM and 04:15 PM to 07:00 PM on working days and on weekends, holidays; it is open between 06:00 AM to 10:00 AM and 04:00 PM to 07:00 PM.

| File Description                      | Documents   |
|---------------------------------------|---|
| Geotagged pictures                    | <u>View File</u>  |
| Upload any additional information     | No File Uploaded  |
| Paste link for additional information | http://kamarajengg.edu.in/NAAC22/AQAR/cr4/<br>4.1.2.pdf |

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

69

| File Description   | Documents        |
|--|------------------|
| Upload any additional information  | No File Uploaded |
| Upload Number of classrooms<br>and seminar halls with ICT<br>enabled facilities (Data<br>Template) | <u>View File</u> |

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

#### 92.72

| File Description   | Documents        |
|--|------------------|
| Upload audited utilization statements                            | <u>View File</u> |
| Details of Expenditure,<br>excluding salary, during the<br>years | <u>View File</u> |
| Any additional information                                       | No File Uploaded |

#### 4.2 - Library as a Learning Resource

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

Period of Automation: 2012 to Till Date Name of ILMS software - Smart Campus Nature of automation (fully or partially) - Fully Version - 2012 Year of Automation - 2012 With a vision to enhance the reading habit of the student community, Unjha V. Dhanasamy Parimaladevi Library has established in a vast area of 1981.08 sq.m. and it has a seating capacity of 500. The fully automated library is well equipped with modern facilities such as Smart Campus ILMS software. Books, Journals, CDROMs, Online Journals, Question banks, Project reports etc. are available here. Video Cameras are placed at strategic points for surveillance. Open Access System is being followed to access the books and journals.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

#### 4.2.2 - Institution has access to the following: A. Any 4 or more of the above

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#### e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

| File Description   | Documents        |
|--|------------------|
| Details of subscriptions like e-<br>journals, e-books, e-<br>ShodhSindhu, Shodhganga<br>membership | <u>View File</u> |
| Upload any additional information  | No File Uploaded |

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

#### 0.1947

| File Description  | Documents        |
|---|------------------|
| Audited statements of accounts  | <u>View File</u> |
| Any additional information  | No File Uploaded |
| Details of annual expenditure<br>for purchase of books/e-books<br>and journals/e- journals during<br>the year (Data Template) | <u>View File</u> |

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

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

#### 117

| File Description   | Documents        |
|--|------------------|
| Upload details of library usage by teachers and students | <u>View File</u> |
| Any additional information                               | No File Uploaded |

#### 4.3 - IT Infrastructure

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

Totally 1441 computers are available in our college with the different RAM configurations of 2 GB, 4 GB and 8 GB. The OperatingSystem for the computers are Windows 10 (636 Nos), Cent OS 7 (771 Nos) & ubuntu (36 Nos) All the computers are connected

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with LAN with the speed of 1000 mbps and provided with internet facility. Total number of LAN connections with in the college is 1820 with 106 LAN switches. The internet speedof 155 mbps was provided through optical fiber cables. College campus provided with Wi-Fi facilities with the speed of 108 mbps and 300 mbps for accessing both the Internet and Intranet using their personal laptop. 2021 - 2022 No of Computers Purchased Computers Available: - 1441 No. Updation in WIFI Existing Speed: Mixed environment Internet Speed Existing Speed: 85Mbps Updated Speed: 300 Mbps Updation Date: 30.10.2021 LAN Connection No of LAN Connections: 1820 LAN Speed: Gigabit Updation: 66 points RAM RAM Speed: 2GB Updation in RAM: 4GB - 72 No. of 2GB RAM on 20.08.2018 OS Updation in OS: Windows 10-636 No. & Cent 7 - 771 No. & Ubuntu - 36 No.

| File Description                      | Documents  |
|---------------------------------------|--|
| Upload any additional information     | <u>View File</u>   |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr4/4.4.1.pdf |

#### 4.3.2 - Student - Computer ratio

| Number of Students | Number of Computers |
|--------------------|---------------------|
| 2435               | 1441                |

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

## **4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**

A. ?50 Mbps

| File Description                                  | Documents        |
|---|------------------|
| Details of bandwidth available in the Institution | <u>View File</u> |
| Upload any additional information                 | No File Uploaded |

### 4.3.4 - Institution has facilities for e-content development: Facilities

D. Any one of the above

#### available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

| File Description   | Documents        |
|--|------------------|
| Upload any additional information                            | <u>View File</u> |
| Paste link for additional information                        | Nil              |
| List of facilities for e-content development (Data Template) | No File Uploaded |

#### 4.4 - Maintenance of Campus Infrastructure

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

394

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Audited statements of accounts    | <u>View File</u> |
| Upload any additional information | No File Uploaded |

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

Maintenance activity is an integral part of the regular activity of this institution. Budget is allotted for maintaining the buildings and equipment. In addition to it, the following are done to monitor the maintenance activity: Annual Stock Taking Movement Registers to monitor equipment's movement inside the college. Complaint / Servicing Register for Infrastructure maintenance of Furniture Intercom Electrical work Building Plumbing House Keeping Log books for monitoring effective usage of the Equipment available in the departments on day to day basis in every department. AMC for copier machines, computers etc.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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#### STUDENT SUPPORT AND PROGRESSION

#### 5.1 - Student Support

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

990

| File Description  | Documents        |
|---|------------------|
| Upload self-attested letters with<br>the list of students receiving<br>scholarships | <u>View File</u> |
| Upload any additional information   | <u>View File</u> |

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

109

| File Description                        | Documents        |
|---|------------------|
| Upload any additional information       | <u>View File</u> |
| Institutional data in prescribed format | <u>View File</u> |

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

A. All of the above

| File Description                              | Documents  |
|---|--|
| Link to Institutional website                 | http://www.kamarajengg.edu.in/NAAC22/AQAR1/cr5/5.1.3_Language%20Skills.pdf |
| Details of capability development and schemes | <u>View File</u>   |
| Any additional information                    | View File  |

#### 5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations

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#### and career counselling offered by the institution during the year

#### 2757

| File Description  | Documents        |
|---|------------------|
| Any additional information  | <u>View File</u> |
| Number of students benefited<br>by guidance for competitive<br>examinations and career<br>counseling during the year<br>(Data Template) | <u>View File</u> |

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

A. All of the above

| File Description  | Documents        |
|---|------------------|
| Minutes of the meetings of<br>students' grievance redressal<br>committee, prevention of sexual<br>harassment committee and Anti-<br>ragging committee | <u>View File</u> |
| Details of student grievances including sexual harassment and ragging cases   | <u>View File</u> |
| Upload any additional information   | <u>View File</u> |

#### 5.2 - Student Progression

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

328

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Self-attested list of students placed | <u>View File</u> |
| Upload any additional information     | <u>View File</u> |

#### 5.2.2 - Number of outgoing students progressing to higher education

31

| File Description                                  | Documents        |
|---|------------------|
| Upload supporting data for students/alumni        | <u>View File</u> |
| Details of students who went for higher education | <u>View File</u> |
| Any additional information                        | <u>View File</u> |

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

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

26

| File Description                           | Documents        |
|--|------------------|
| Upload supporting data for students/alumni | <u>View File</u> |
| Any additional information                 | <u>View File</u> |

#### 5.3 - Student Participation and Activities

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

20

| File Description                           | Documents        |
|--|------------------|
| e-copies of award letters and certificates | <u>View File</u> |
| Any additional information                 | <u>View File</u> |

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

Academic Bodies • Class Committee • IQAC Cell Member • PAC Member Class Committee: The four students from each class will be the member of the Class Committee along with Chairperson and subject handling staff members. The meeting will be arranged once in 15 days. IQAC Cell Member: IQAC Cell has student representatives and they work together to improve and sustain quality in each and every aspect of academic / Co-Curricular and Extra Curricular Activities. PAC Members: One student from each class will be the member along with department faculty, Alumni, Industry Person etc. Administrative Bodies • Anti-Ragging committee • Hostel student Council Committee • Complaints cum Redressal Committee Member Anti-Ragging Committee: Two Students from the college will act as a member in the committee. The meeting will be organized once in three months. Hostel Student Council Committee: Separate Hostel student Council committee is available for Boys and Girls. Ten Students representatives will present in the committee to discuss the general difficulties, menu etc. The meetings will be conducted once in three months. Complaints cum Redressal Committee: Two Students from each department will be the member. They will discuss the general grievances and remedial actions need to be taken. Due to pandemic situation no meeting is conducted during this period

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr5/5.3.2_SR.pdf |

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

8

| File Description   | Documents        |
|--|------------------|
| Report of the event  | <u>View File</u> |
| List of sports and cultural events / competitions organised per year | <u>View File</u> |
| Upload any additional information                                    | No File Uploaded |

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#### 5.4 - Alumni Engagement

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

Alumni Association of Kamaraj College of Engineering & Technology has been actively involving in activities of the college through financial and nonfinancial supports. It was registered as a trust on the 19th of August 2015 in the name of "Kamaraj College of Engineering & Technology - Alumni Association". As per the bylaws of the trust its' EC meetings, GB meetings are periodically conducted. The measures have been taken to connect all the alumni of the college as life members of the association and are having 6000 life members as on date. As a nodal system, it promotes and encourages department level alumni get together. The lectures will be given by our alumni to the students on the industrial expectation and needs. They motivate the students by providing suggestions and tips to clear competitive exams of state and national level. They also recruit our students in their company. The achievements and advancements in the college is notified to all the members through email. This interconnects all the stakeholders of the college and it extends support for the welfare and development of the college. Our alumni represent various committees/cells/forums of the college like IQAC committee of the college, Board of studies of the departments, Academic council which reveal the active participation of our alumni in holistic development of the college. It is our tradition to invite our alumni for important programs of the college viz. College day and convocation.

| File Description                         | Documents   |
|--|---|
| Upload any additional information        | <u>View File</u>  |
| Paste link for additional<br>Information | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr5/5.4.1 Alumni.pdf |

### **5.4.2 - Alumni's financial contribution** during the year

E. <2 Lakhs

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

#### GOVERNANCE, LEADERSHIP AND MANAGEMENT

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#### 6.1 - Institutional Vision and Leadership

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

Kamaraj College of Engineering and Technology (Autonomous) is governed by elected members of various Mahamai Tharappus of Virudhunagar, with the vision to make this Institution the unique of its kind in the field of Research and Development activities in this part of world and the mission to impart highly innovative and technical knowledge to the urban and unreachable rural student folks through total quality education. The Secretary leads the administration by who ensures liberal, democratic and barrier free management aided by Deans, Controller of Examination, Heads of the departments, Training and Placement Cell and other committees. Adequate freedom is provided to faculty members to formulate plans for strengthening teaching-learning process, academic advancement, nurturing multifaceted talent in students and encouraging enthusiastic learners to aim for professional competency. Our institution vision reflects in various needs of society through research forum.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

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

The management of our Institution provides effective academic leadership to the principal by setting goals. The principal involves all faculty members at various levels in participative decision-making process to achieve the goals.

CASE STUDY: Monitoring of Teaching-Learning Process

At the Institutional level, Principal, Dean and Associate Dean of Academic courses and all HoDs are involved. The principal organizes meetings with Dean-Academic courses, Controller of Examination (COE) and HoDs for structural delegation of authority and responsibilities. The HoD, at program level, is responsible for assigning courses to faculty members based on competency matrix. They ensure follow up of Academic calendar, issued by

Dean-academic courses` office. The Time-tables are prepared well in advance incorporating curricular/co-curricular/extracurricular activities and circulated. At department level, Program Assessment Committee is responsible for deliberating on attainment of course outcomes and program outcomes. At the class room level, Class Chairperson monitors the academic needs of the students and reports to the HoD. The Mentor system is followed where faculty members mentor students and address all their academic and personal needs for an overall development. For continuous improvement of teaching learning process, feedback taken from all stakeholders on various aspects of academics is taken into account.

| File Description  | Documents        |
|---|------------------|
| Upload strategic plan and deployment documents on the website | <u>View File</u> |
| Upload any additional information                             | No File Uploaded |
| Paste link for additional<br>Information                      | Nil              |

#### 6.2 - Strategy Development and Deployment

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

The Institution has a well-defined structure for strategic planning and overall management of resources. Targets are set on consultation with stakeholders including faculty members, alumni, management and the industry representatives.

Activity: Progress in Industrial Institute Interaction Activities:

The Industry Institute Interaction Cell (III Cell) has been functioning in the college actively to promote closer interaction between the institution and the industry. The purpose of the cell is to find out the gap between need of the industry and the end product of the institute. The cell is the bridge between the industry, the real world and the institute. The strategic plan and the deployment activities are uploaded separately. With all the efforts taken towards III Cell activities, Our Institution participated in ARIIA 2021 ranking and Our Institution is adjudged in "Band-Promising" by the Survey. Our Institution is also registered in Institute Innovation Council.

| File Description                                       | Documents   |
|--|---|
| Strategic Plan and deployment documents on the website | <u>View File</u>  |
| Paste link for additional information                  | http://www.kamarajengg.edu.in/NAAC22/AQAR/<br>cr6/6.2.1.pdf |
| Upload any additional information                      | No File Uploaded  |

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

Our Institution attained autonomous status in 2019 and based on the UGC / AICTE regulations, our institution has the following statutory bodies (Governing body, Academic Council, Board of Studies and Finance Committee) to ensure proper management of academic, financial and general administrative affairs. The Principal is the Academic Head.

The Dean (Academics) plans a Board of Studies and Academic Council meetings, establishes academic rules, and submits recommendations to the Academic Council for approval. The Institution's consultation projects and Intellectual Property Rights (IPR) cell are under the supervision of the Dean (Research). In order to improve the standard of the evaluation process, the Controller of Examination (COE) analyses the examination system. To fulfill the Institution's vision and mission, the department heads encourage departmental activities. The office superintendent is in-charge of overseeing the operations of the administrative office, physical education, site office, human resources, and hostels through the Principal. Through the feedback system, the coordinator of the Internal Quality Assurance Cell (IQAC) works to maintain standards in the curriculum, teaching-learning, and assessment processes and prepares the Annual Quality Assurance Report of the Institution every year.

| File Description                                    | Documents  |
|---|--|
| Paste link to Organogram on the institution webpage | http://www.kamarajengg.edu.in/organisation_chart |
| Upload any additional information                   | No File Uploaded                                 |
| Paste link for additional Information               | Nil  |

# 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

#### **6.3 - Faculty Empowerment Strategies**

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

The welfare measures encourage teaching and supportive staff to participate in seminars, workshops, conferences and faculty development programmes for their continuous development. Research activities are motivated through various incentives measure. The list of welfare schemes were listed below

- 1. Financial Welfare Schemes
- 2. Leave Benefits
- 3. Academic Benefits for Teaching Faculty
- 4. OtherBenefits

| File Description                      | Documents   |
|---------------------------------------|---|
| Upload any additional information     | <u>View File</u>  |
| Paste link for additional information | http://www.kamarajengg.edu.in/NAAC22/AQAR/<br>cr6/6.3.1.pdf |

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

0

| File Description   | Documents        |
|--|------------------|
| Upload any additional information  | No File Uploaded |
| Details of teachers provided<br>with financial support to attend<br>conference, workshops etc<br>during the year (Data Template) | No File Uploaded |

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

4

| File Description  | Documents        |
|---|------------------|
| Reports of the Human Resource<br>Development Centres (UGC<br>HRDC/ASC or other relevant<br>centres) | <u>View File</u> |
| Upload any additional information   | No File Uploaded |

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

531

| File Description  | Documents        |
|---|------------------|
| Summary of the IQAC report  | <u>View File</u> |
| Reports of the Human Resource<br>Development Centres (UGC<br>ASC or other relevant centers) | <u>View File</u> |
| Upload any additional information   | No File Uploaded |

### 6.4 - Financial Management and Resource Mobilization

### 6.4.1 - Institution conducts internal and external financial audits regularly

Yes, the accounts of the College are audited regularly.

The institution has adequate mechanism for auditing by both Internal and external auditors. External Audit is done by the Auditors after 30th June of the subsequent year. During the course of Internal Audit, all required steps are taken to regularize the accounts. the credit balances, documentary evidences wherever inadequate in respect of payments, compliances of T.D.S., Statutory Formalities, Reconciliation of Student wise balances with the Control Accounts and Bank Reconciliations were documented. External Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. All the details regarding the budget and the audited statement of accounts are uploaded in the college website

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

| 1 | n | 4 | 6 | 7 | 6 | n |
|---|---|---|---|---|---|---|
| _ | u | - | u | • | u | v |

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

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

The College has an effective mechanism to monitor the use of financial resources. For any requirement for Procuring equipment's or other major items, the requisition is initiated by the Staff member, forwarded by the respective HOD and is approved by the Principal and the Secretary. The institution purchases quality equipment of higher specifications. The quotations are evaluated & a comparative statement is prepared. Suppliers are called for price negotiation. This ensures that the right equipment is purchased at most competitive price. Further, the financial accounts of the institution are subjected to internal and external audit. Internal and External audits are conducted periodically and any discrepancy observed is brought to the notice of the Principal. Budget is prepared well in advance before the start of every academic year and actual expenses incurred during the year are compared with proposed budget. Any major variation is discussed by the principal with concerned HoD.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

### 6.5 - Internal Quality Assurance System

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

The IQAC is continuously monitoring and ensuring quality at all levels of the institution's functioning, as mentioned below.

Undergraduate student project competition

Technical programs for the teaching and non-teaching staff members

Mock Audit for the National Board of Accreditation (NBA)

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

### Class committee meeting

Class Committee meeting is held before the commencement of cycle tests. The faculty members handling the class will be present and difficulties faced by students will be discussed. Targets to be achieved by the students in the Curricular, Co-Curricular and Extra-Curricular activities are informed. The chairperson will give general instructions to the students for academic performance. Class committee meetings are held periodically. Student's expectations are recorded in the report. Class committee meeting reports are prepared as per the IQAC format. The report consists of percentage of syllabus completion, difficulties in understanding the subject and submitted to the principal through head of the department periodically. Based on the report, corrective actions will be done. A progress report is sent to the parents about the performance in internal test.

### Exam Cell Audit

After completion of cycle test, an auditing team will visit each department. It verify the Cycle test related documents. The team monitors the Planning, Execution, Monitoring and Continuous improvements of the exam cell. A detailed report will be made to the principal. The Principal discuss the overall performance of the exam cell activites with the individual HoD's and gives the suggestions for improvement.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional information | Nil              |

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

B. Any 3 of the above

| File Description   | Documents  |
|--|--|
| Paste the web link of annual reports of the Institution            | <pre>chrome-extension://efaidnbmnnnibpcajpcglcl efindmkaj/http://www.kamarajengg.edu.in/NA</pre> |
| Upload e-copies of accreditations and certification                | No File Uploaded   |
| Upload details of quality assurance initiatives of the institution | <u>View File</u>   |
| Upload any additional information                                  | No File Uploaded   |

### INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

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

The College is very keen on the desires, aspirations, abilities and professional skills of human resources as men and women, without any discrimination about their gender. Further extensive efforts are taken into account for the communal and artistic factors involved in gender-based exclusion and prejudice in the most diverse spheres of community and personal life.

Committees like Complaints cum Redressal and Anti ragging are established to monitor and address safety, security and social

issues of the students. CCTV cameras are installed inside the college premises which provide 24 hours surveillance in order to observe the ongoing activities. The College organizes seminars/special talks on a regular basis in order to endorse social values such as gender equality, gender sensitivity and highlights social problems such as women's safety, dowry issues, women's health etc.

Mentoring is provided to the students for one hour in every week in all the departments. Counselling focuses on the problems faced by the students during examinations like fear, lack of concentration, time management and failure. Such students were identified and special counselling was given to them.

Repose room, Rest zone, gym and hostel facilities are available for both boys and girls with all necessary amenities.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | <u>View File</u> |
| Paste link for additional Information | Nil              |

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

B. Any 3 of the above

| File Description               | Documents        |
|--------------------------------|------------------|
| Geotagged Photographs          | <u>View File</u> |
| Any other relevant information | <u>View File</u> |

- 7.1.3 Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)
- 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste Degradable and non-degradable waste bins segregate wastes generated inside campus.

Solid waste management • Food wastes produced from hostel and canteen are 22Kg/day and 25Kg/day respectively is sent to

isolated secured dump yard, converting into manure. • Stationery wastes produced inside the campus are for recycling. Sanitary pad disposal machine is available in ladies hostel for safe disposal. Green waste Green wastes from trees & plants are collected, filled with soil to produce manure. Liquid Waste Management Waste water collected is recycled in Sewage Treatment Plant for gardening purpose. Biomedical waste management

• Microbes(Non-Pathogenic) in agar medium are properly decontaminated at 120°C for 20 minutes in autoclave, collected in bins and sent to dumpyard. Fumigation is done periodically in Biotechnology laboratories to curb microorganisms' growth. • Dispensary wastes are incinerated; non-degradable wastes from chemical laboratories are collected and discarded safely and no hazardous wastes are produced. Note: As biomedical wastes are not being generated inside campus for the past 6 months, dumpyard is not active now. E-Waste Management E-waste collected from our institution is sent to JTNK battery for recycling and reuse.

Hazardous chemicals and radioactive waste management We don't use isotopes because of restrictions to use radioactive products.

| File Description  | Documents        |
|---|------------------|
| Relevant documents like agreements/MoUs with Government and other approved agencies | No File Uploaded |
| Geotagged photographs of the facilities   | <u>View File</u> |
| Any other relevant information  | No File Uploaded |

## 7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

| File Description                                 | Documents        |
|--|------------------|
| Geotagged photographs / videos of the facilities | <u>View File</u> |
| Any other relevant information                   | <u>View File</u> |

### 7.1.5 - Green campus initiatives include

### 7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- A. Any 4 or All of the above
- 1. Restricted entry of automobiles
- 2. Use of bicycles/ Battery-powered vehicles
- 3. Pedestrian-friendly pathways
- 4. Ban on use of plastic
- 5. Landscaping

| File Description   | Documents        |
|--|------------------|
| Geotagged photos / videos of the facilities                        | <u>View File</u> |
| Various policy documents / decisions circulated for implementation | No File Uploaded |
| Any other relevant documents                                       | No File Uploaded |

### 7.1.6 - Quality audits on environment and energy undertaken by the institution

### 7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

D. Any 1 of the above

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

| File Description  | Documents        |
|---|------------------|
| Reports on environment and energy audits submitted by the auditing agency | <u>View File</u> |
| Certification by the auditing agency                                      | No File Uploaded |
| Certificates of the awards received                                       | No File Uploaded |
| Any other relevant information  | No File Uploaded |

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

B. Any 3 of the above

| File Description   | Documents        |
|--|------------------|
| Geotagged photographs / videos of facilities                 | <u>View File</u> |
| Policy documents and brochures on the support to be provided | No File Uploaded |
| Details of the software procured for providing assistance    | No File Uploaded |
| Any other relevant information                               | No File Uploaded |

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Cultural and Socioeconomic Diversity

Diversity in college campus enriches the experience in various ways. Our college manifests a mixed ethnic community area where multiple culture and tradition exists.

- Based on that in the past five years Kamaraj College of Engineering and Technology has admitted students from all the religion.
- Similarly, faculty members also belong to different religions.
- Special privilege has been given to the Muslim faculty members and students to offer prayers on all Fridays in both the boys and girls hostel.
- Similarly, Christian faculty members and students are also given privileges to offer prayers on all the days and especially on Sundays in the hostel.

- We have Ganapathy temple at the entrance of our college as a holy place to bless all of us for our well-being.
- Students from various parts of Tamil Nadu and from various states across the country join in our institution.

### Linguistic Diversity

 To give importance and promote other languages our college has established Hindi Club, German Club and many language related activities and certified courses are conducted in these clubs.

| File Description   | Documents        |
|--|------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | <u>View File</u> |

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

### Citizen Duties

### National Day Celebrations

 Independence Day, the 15th of August and Republic day, the 26th of January are being celebrated every year.

### Constitution of India - Audit Course

 As per the AICTE recommendations students mandatorily study the Constitution of India as the audit course.

### Tax Payment by the Teaching Faculty

 It is our prime duty to pay tax for our country's wellbeing and so all faculty members pay their tax as per Indian law.

### Citizen Rights

- Our college organizes activities like Voters day celebration and Voter ID enrollment awareness programme.
- Students of our college start with an Oath Taking Ceremony during which everyone takes his/her Pledge.

Students take a pledge on National unity day

Citizen Responsibilities

Gender Equity For Lady Faculty and Girl Students

 Our college has been providing a platform for women faculty members and girl students to bring out their talents and ideas under various forums.

Collection of Anti Ragging Forms

The students and parents/ guardians are required to submit online affidavit at the beginning of the Semester with regard to curbing ragging menace.

| File Description  | Documents        |
|---|------------------|
| Details of activities that inculcate values necessary to transform students into responsible citizens | <u>View File</u> |
| Any other relevant information  | No File Uploaded |

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

C. Any 2 of the above

| File Description   | Documents        |
|--|------------------|
| Code of Ethics - policy document   | <u>View File</u> |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims | No File Uploaded |
| Any other relevant information   | No File Uploaded |

### 7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Institution commemorates National and International festivals by organizing various events on the birth and death anniversary of great personalities. Due to Corona pandemic majority of the festivals were celebrated through Online mode.

- Important days like International yoga day, Kargil Vijay Diwas Day, Constitution day, Earth day, Independence day, Republic day, NCC day etc.., are celebrated and various competitions are conducted. Prizes and certificates are distributed to the winners.
- To commemorate the birth anniversary of Bharat Ratna. Dr.A.P.J.AbdulKalam, every year 15th October is celebrated as World Students' Day.
- The son of soil, K. Kamaraj strived to eradicate illiteracy by introducing free and compulsory education up to the eleventh standard. To honor such a great leader, his birthday is celebrated as Educational Day on 15th July of every year.
- Indian liberation warrior, Netaji Subhash Chandra Bose, birthday is celebrated on 23rd January by conducting various events for students.
- The birth anniversary of Sardar Vallabhbhai Patel is observed on 31st October as National Unity Day. The day is celebrated with patriotic events.
- With the help of NSS volunteers and NCC cadets,
   International yoga day is celebrated on 21st January and various competitions are conducted for students.

| File Description   | Documents        |
|--|------------------|
| Annual report of the celebrations and commemorative events for during the year | <u>View File</u> |
| Geotagged photographs of some of the events                                    | No File Uploaded |
| Any other relevant information   | No File Uploaded |

### 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice:System and Process of Effective Implementation of OBE

Objective of the Practice:

To ensuring graduating engineers from all programs demonstrate expected Graduate attributes to their global recognition.

### The Context:

Traditionally, higher education in India has been teacher centric. As a result, a large number of graduates had poor employability. In the OBE, to change higher education from teacher centric to student centric.

### The Practice:

- Improve instruction methods to focus on student centric learning, to achieve the Graduate attributes (POs)
- Establish the Assessment and Evaluation pattern
- In House CO & PO attainment calculation tool to assess the attainment of CO & PO.
- Revision of Course target, CO statement and teaching learning pedagogy for the next batch of students based on course closure report.

### Evidence of Success:

- Enhanced content delivery, quality of project and assessment have been changed.
- Enhanced number of awards secured by students in National and International technical competitions/professional body activities.
- Enhanced ON/OFF campus placement.
- Continuous improvement in the average and highest pay package offered

### Problems Encountered and Resources Required:

- OBE implemented from January 2017. Faculty need training to adopt OBE from traditional method of teaching.
- Student engagement in the classroom is a challenging task.

| File Description                            | Documents   |
|---|---|
| Best practices in the Institutional website | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr7/7.2.1%20Best%20practice%20I.pdf  |
| Any other relevant information              | http://www.kamarajengg.edu.in/NAAC22/AQAR1<br>/cr7/7.2.1%20Best%20practice%20II.pdf |

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Placement plays an integral part of the academic structure and is a priority to our institution, which continues to steer towards the educational vision of Karmaveerar "Bharat Ratna" K. Kamaraj. The institution has a well-established Training Development & Placement Cell (TDP Cell) that helps students improve their skills and uplift them by providing more placement opportunities.

For the benefit of students, the institution, through TDP Cell, has facilitated well-designed and structured programs, including soft skill programs, communication skills, life skills, and computing skills. These programs help the students to develop their leadership qualities, responsibility, communication and presentation skills. Consistent efforts have been taken by the TDP cell to conduct Aptitude training in the regular academic schedule to facilitate the students in preparation for the interviews and to face competitive exams.

The employability skills are often modified through the close association with numerous companies and also based on the feedback of employers that keep us up to date in planning and executing the training modules for students.

In 2021- 2022, TDP Cell enabled 328 students to get placed in reputed companies, resulting in 351 offers with an average salary package of 3.4 LPA.

| File Description                              | Documents   |
|---|---|
| Appropriate link in the institutional website | http://www.kamarajengg.edu.in/NAAC22/AQAR/cr7/7.3.1.pdf |
| Any other relevant information                | No File Uploaded  |

### 7.3.2 - Plan of action for the next academic year

IQAC Plan of Action for the next Academic Year 2022-2023

- To revise R2021 curriculum and syllabi to inclue more verticals based on industry needs and Major and Minor degree courses.
- To conduct funded seminars or workshops on quality improvement in the process of institution.
- To conduct an International Conference on Recent Trends in Technology.
- To apply for NBA reaccreditation for the B.Tech., Biotechnology, B.E., Mechanical Engineering, B.E., Computer Science and Engineering and B.E., Electronics and Communication Engineering Programmes.
- To establish Start-up incubation centres.
- To convert more projects into products and patents.
- To convert more laboratory manuels into Copyrights.

- To increase the intake in more inemerging areas. To get a rank in NIRF.
- To increase research publications and research projects.
- To motivate the faculty members to undergo the industrial training
- To collaborate with foreign university for dual degree or twinning programme.