



YEARLY STATUS REPORT - 2022-2023

| Part A | |
|--|--|
| Data of the Institution | |
| 1.Name of the Institution | NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE |
| • Name of the Head of the institution | Dr. KARIBASAPPA KWADIKI |
| • Designation | PRINCIPAL |
| • Does the institution function from its own campus? | Yes |
| • Phone no./Alternate phone no. | 04884284000 |
| • Mobile no | 7510882777, 9590542762 |
| • Registered e-mail | naacordinator@ncerc.ac.in |
| • Alternate e-mail | principal@ncerc.ac.in |
| • Address | NILA GARDENS, PAMPADY, THIRUVILWAMALA |
| • City/Town | THRISSUR |
| • State/UT | KERALA |
| • Pin Code | 680588 |
| 2.Institutional status | |
| • Affiliated /Constituent | AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, KERALA |
| • Type of Institution | Co-education |
| • Location | Rural |

| • Financial Status | Self-financing | | | | | | | | | | | | | | | | | | |
|---|---|-------------|-----------------------|-------------------|-----------------------|---------------|-------------|----------------|----------|-------------|-------------|-------------------|-------------------|----------------|----------|-------------|-------------|-------------------|-------------------|
| • Name of the Affiliating University | APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, KERALA | | | | | | | | | | | | | | | | | | |
| • Name of the IQAC Coordinator | Vysak Valsan | | | | | | | | | | | | | | | | | | |
| • Phone No. | 04884281670 | | | | | | | | | | | | | | | | | | |
| • Alternate phone No. | 04884284001 | | | | | | | | | | | | | | | | | | |
| • Mobile | 8921686536 | | | | | | | | | | | | | | | | | | |
| • IQAC e-mail address | iqac@ncerc.ac.in | | | | | | | | | | | | | | | | | | |
| • Alternate Email address | hodeee@ncerc.ac.in | | | | | | | | | | | | | | | | | | |
| 3.Website address (Web link of the AQAR (Previous Academic Year) | https://ncerc.ac.in/downloads/aqar-2021-2022/NCERC_AQAR_2021-2022.pdf | | | | | | | | | | | | | | | | | | |
| 4.Whether Academic Calendar prepared during the year? | Yes | | | | | | | | | | | | | | | | | | |
| • if yes, whether it is uploaded in the Institutional website Web link: | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-1/1.1.2.NCERC-ACADEMIC-CALENDAR.pdf | | | | | | | | | | | | | | | | | | |
| 5.Accreditation Details | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Cycle</th> <th>Grade</th> <th>CGPA</th> <th>Year of Accreditation</th> <th>Validity from</th> <th>Validity to</th> </tr> </thead> <tbody> <tr> <td>Cycle 1</td> <td>B</td> <td>2.72</td> <td>2015</td> <td>01/05/2015</td> <td>30/04/2020</td> </tr> <tr> <td>Cycle 2</td> <td>A</td> <td>3.18</td> <td>2021</td> <td>16/11/2021</td> <td>15/11/2026</td> </tr> </tbody> </table> | | Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to | Cycle 1 | B | 2.72 | 2015 | 01/05/2015 | 30/04/2020 | Cycle 2 | A | 3.18 | 2021 | 16/11/2021 | 15/11/2026 |
| Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to | | | | | | | | | | | | | | |
| Cycle 1 | B | 2.72 | 2015 | 01/05/2015 | 30/04/2020 | | | | | | | | | | | | | | |
| Cycle 2 | A | 3.18 | 2021 | 16/11/2021 | 15/11/2026 | | | | | | | | | | | | | | |
| 6.Date of Establishment of IQAC | 21/04/2014 | | | | | | | | | | | | | | | | | | |
| 7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc., | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Institutional/Department /Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--|-----------------------------|--|-----------------------------|--------|
| Nehru College of Engineering and Research Centre | Refresher Course | AICTE - ISTE | 2022-2023 (Six Days) | 93000 |
| Nehru College of Engineering and Research Centre | Faculty Development Program | APJ Abdul Kalam Technological University | 2022-2023 (15 Days) | 800000 |
| Nehru College of Engineering and Research Centre | Seminar | NAAC | 2022-2023 (One Day) | 30000 |
| 8. Whether composition of IQAC as per latest NAAC guidelines | | Yes | | |
| <ul style="list-style-type: none"> Upload latest notification of formation of IQAC | | View File | | |
| 9.No. of IQAC meetings held during the year | | 4 | | |
| <ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? | | Yes | | |
| <ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report | | No File Uploaded | | |
| 10. Whether IQAC received funding from any of the funding agency to support its activities during the year? | | Yes | | |
| <ul style="list-style-type: none"> If yes, mention the amount | | 30000 | | |
| 11. Significant contributions made by IQAC during the current year (maximum five bullets) | | | | |

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning) has been introduced.

National Seminar on Role and Reach of National Educational Policy (NEP) 2020 in Technical Education Sponsored by NAAC on December 14, 2022 was organized.

The following KTU Sponsored Faculty Development Program were organized. 1. Recent Trends of AI in Biomedical Engineering 2.Social Entrepreneurship Management 3.Innovative Facets of Internet of Things 4.IoT Application in Smart Grids

National Conference on Innovation, Technology and Sociology (NCITS) was organized from November 24-25, 2022

AICTE sponsored International Conference on Emerging Trends in Signal, Systems and Information was organized from May 25-27, 2023

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

| Plan of Action | Achievements/Outcomes |
|---|---|
| National Seminar on Role and Reach of National Educational Policy (NEP) 2020 in Technical Education | Sponsored by NAAC and Organized on December 14, 2022 |
| KTU Sponsored Faculty Development Program | Recent Trends of AI in Biomedical Engineering was organized from 30-01-2023 TO 03-02-2023 |
| KTU Sponsored Faculty Development Program | Social Entrepreneurship Management was organized from 23-01-2023 TO 28-01-2023 |
| KTU Sponsored Faculty Development Program | Innovative Facets of Internet of Things was organized from 01-03-2023 to 07-03-2023 |
| KTU Sponsored Faculty Development Program | IoT Application in Smart Grids was organized from 17-01-2023 to 21-01-2023 |
| National Conference on Innovation, Technology and Sociology (NCITS) | Organized from November 24-25, 2022 |
| International Conference on Emerging Trends in Signal, Systems and Information | Sponsored by AICTE and Organized from May 25-27, 2023 |
| Applied for Section 2(f) of the UGC Act, 1956 | Recognition of College under Section 2(f) of the UGC Act, 1956 |

| | |
|---|------------|
| 13. Whether the AQAR was placed before statutory body? | Yes |
|---|------------|

- Name of the statutory body

| Name | Date of meeting(s) |
|-------------------|--------------------|
| Governing Council | 24/03/2023 |

| |
|--|
| 14. Whether institutional data submitted to AISHE |
|--|

| | |
|-----------|--------------------|
| Year | Date of Submission |
| 2022-2023 | 26/02/2024 |

15. Multidisciplinary / interdisciplinary

The Institution is offering courses and programs in compliance with affiliating University which are multi disciplinary/inter disciplinary.

Minor in Engineering scheme will allow B.Tech Students to earn a minor degree in a discipline other than their original stream.

The Institution is offering the following Minor degree programs during the academic year 2022-23 - Power Engineering, Machine Learning , Networking and Mechatronics Engineering.

Interdisciplinary Courses are offered as open elective in the seventh semester (2019 scheme) for all UG B.Tech Programs.

The following courses are offered in the Institution during the academic year 2022-2023 . Total Quality Management, Instrumentation Systems, Bio Medical Engineering ,Industrial Automation and Renewable Energy System.

16. Academic bank of credits (ABC):

The scheme of Academic Bank of Credits is applicable as per National Academic Depository (NAD).

17. Skill development:

The institution is focussing on skill development of the students through the following programs

1. ADD on courses - offered in all semesters and attended by all students of UG B.Tech , PG MBA and PG MCA. The following add on courses were offered during the academic year 2022-2023.

Photovoltaic Systems Tools and Techniques, Energy Production, Distribution and Safety, Power Engineering, Industrial Application of Control System, Custom Power Devices, Power Plant Engineering, Artificial Intelligence in Smart Grid, VLSI Lab through VL, Raspberry Pi, Logic Design through Virtual Lab, Internet of Things, Signals and Systems Lab through VL, Familiarization of VHDL/Verilog, Basics of Electronics Lab through VL, Measuring Instruments and Transducers, DEEP Learning, Android Programming, Introduction to Python Programming, Two and Three Wheeler Technology, Arduino Based

Embedded System Design, Importance of Digital Security, Nanocomposites, Training of Trainers, Health Care Management.

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

The scheme of integration of Indian Knowledge System are yet to be introduced in the curriculum by the affiliating University.

Online Courses (MOOC/NPTEL) are attended by students and successfully completed.

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

The Teaching Learning Mechanism is adopted in compliance with accreditation norms to focus on Outcome Based Education(OBE).

Vision /Mission statements are made for the Institution and for each department. All Departments have formulated Program Specific

Outcome(PSO). All offered courses have course objectives and mapping is done with Program Outcome (PO) and Program Specific

Outcome(PSO). The Course Outcome (CO) and Program Outcome (PO) attainment is measured based on specified norms and actions are initiated to improve the attainment of these outcomes.

20.Distance education/online education:

The distance education system are yet to be introduced in the curriculum by the affiliating University. The institution has resources to facilitate online education as well as to conduct academic activities, cultural programs, cocurricular activities, evaluation, examination and meetings in online mode.

Extended Profile

1.Programme

1.1 373

Number of courses offered by the institution across all programs during the year

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

2.Student

2.1 1053

Number of students during the year

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

2.2 245

Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

2.3 298

Number of outgoing/ final year students during the year

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

3.Academic

3.1 128

Number of full time teachers during the year

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

3.2 128

Number of sanctioned posts during the year

Extended Profile

1. Programme

| | |
|--|------------|
| 1.1 | 373 |
| Number of courses offered by the institution across all programs during the year | |

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

2. Student

| | |
|------------------------------------|-------------|
| 2.1 | 1053 |
| Number of students during the year | |

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

| | |
|--|------------|
| 2.2 | 245 |
| Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year | |

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

| | |
|---|------------|
| 2.3 | 298 |
| Number of outgoing/ final year students during the year | |

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

3. Academic

| | |
|--|------------|
| 3.1 | 128 |
| Number of full time teachers during the year | |

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

| | |
|--|-----|
| 3.2 | 128 |
| Number of sanctioned posts during the year | |

| File Description | Documents |
|------------------|---------------------------|
| Data Template | View File |

| | |
|---|--------|
| 4.Institution | |
| 4.1 | 64 |
| Total number of Classrooms and Seminar halls | |
| 4.2 | 576.44 |
| Total expenditure excluding salary during the year (INR in lakhs) | |
| 4.3 | 473 |
| Total number of computers on campus for academic purposes | |

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Nehru College of Engineering and Research Centre imparting excellence in education in Engineering and Management, affiliated to A P J Abdul Kalam Technological University follows the curriculum prescribed by the University.

In the beginning of every academic year, the Academic Committee discuss about the effective implementation of curriculum.

Meetings are held in each department to discuss the distribution of courses for upcoming academic sessions during the end of the semester. Based on individual faculty members experiences, the course is assigned to them by the head of the department. The individual faculty member prepares a course plan.

Time Table and Lecture Plan

According to University rules and regulations each course is

allocated to faculty and prepares time table for each classes.

Our teaching faculty updates themselves by attending Refresher courses, Workshops, Faculty Development Programs, conferences organized by various colleges under AICTE to accomplish their subject delivery & curriculum more effectively. Laboratory Manual is for all practical courses with additional/ Design based experiments more than the University prescribed experiments.

Teaching Methodology

Organizes:Industrial Visit, workshops, seminars, guest lectures, hands on training

Infrastructural facilities:Audio Visual Hall, Language lab, Educational Software, Digital Library

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-1/1.1.1.NCERC-CURRICULAM-PLANNING.pdf |

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The Academic Calender published by the university at the begining of academic year is rescheduled into college calendar by adding college events and department events. The Academic Calendar includes :

- Commencement of Classes
- Dates for module completion.
- Dates for series tests
- Dates for practical exams
- Dates for university tests
- Dates for extra-curricular activities like NSS/NCC/Sports/Cultural programs

Academic calendar

Academic calendar is prepared by Principal in consultation with HoDs.

In the beginning of the academic session same is uploaded in college website and displayed in the notice boards. Only the head of Institution can make minor changes in academic calendar considering unforeseen circumstances.

Continuous Internal Evaluation

Assignments are submitted by the students as per the dates given in academic Calendar and internal tests will be conducted as per the schedule.

Circulars for internal tests will be issued by the head of Institution to the teachers and students.

For all programmes, the institute conducts 2 internal exams for 50 marks in each semester. Continuous internal assessments and evaluation as per university norms.

Before commencement of internal examinations, review questions are provided to the students in the class itself.

After completing internal examination, the faculty evaluates the answer scripts within three working days and distribute to the students. Periodically conducts PTA meetings and getting signature in progress report.

| File Description | Documents |
|-------------------------------------|---|
| Upload relevant supporting document | View File |
| Link for Additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-1/1.1.2.NCERC-ACADEMIC-CALENDAR.pdf |

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

B. Any 3 of the above

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

| File Description | Documents |
|--|---------------------------|
| Details of participation of teachers in various bodies/activities provided as a response to the metric | View File |
| Any additional information | View File |

1.2 - Academic Flexibility

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

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

12

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

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

25

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Brochure or any other document relating to Add on /Certificate programs | View File |
| List of Add on /Certificate programs (Data Template) | View File |

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**1814**

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Details of the students enrolled in Subjects related to certificate/Add-on programs | View File |

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

The Institution believe in giving healthy environment for all our students. The cross-cutting issues like Gender, Environmental sustainability, Human Rights and Professional Ethics etc., finds plenty of space when it comes to applying them positively into the curriculum. The curriculum is given by the university and it does include many of these aspects in the courses in the curriculum.

Sl No

Course Code

Course Name

Relevant Issues

1

MCN 201

Sustainable Engineering

Environment and Sustainability

2

EST 200

Design and Engineering

Environment and Sustainability

3

HUT 200

Professional Ethics

Professional Ethics

4

MCN 202

Constitution of India

Gender & Human Values

5

HUN 102

Professional Communication

Human Values

6

HUT 101

Life Skills

Human Values

7

MCN 301

Disaster Management

Environment and Sustainability

8

20MBAMC2

Disaster Management

Environment and Sustainability

9

20MBA113

Ethics, Governance and Corporate Responsibility

Professional Ethics

10

20MBA115

Legal System for Business

Gender & Human Values

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum. | View File |

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

76

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Programme / Curriculum/ Syllabus of the courses | View File |
| Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses | View File |
| MoU's with relevant organizations for these courses, if any | View File |
| Institutional Data in Prescribed Format | View File |

1.3.3 - Number of students undertaking project work/field work/ internships

442

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| List of programmes and number of students undertaking project work/field work/ /internships (Data Template) | View File |

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

| File Description | Documents |
|---|---|
| URL for stakeholder feedback report | https://www.ncerc.ac.in/feedback |
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management | View File |
| Any additional information | View File |

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| URL for feedback report | https://www.ncerc.ac.in/feedback |

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

382

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

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

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

161

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

2.2 - Catering to Student Diversity

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

The students are the backbone and customers of an education institution. All the programs are formulated and implemented to fulfill the requirements of students to provide maximum student

satisfaction. Participative culture is implemented in the campus for students to develop all skills such as communication, technical, inter personal, curricular, co-curricular and extracurricular skills. For Advanced Learners - Based on the academic performance of the students, they are categorized as Outstanding students, Fast learners and Slow learners. These students are encouraged to develop new innovative projects and products. They are motivated to participate in Kerala Start Up Mission, Kerala Reboot Hackathon, Technological Business Incubation to emerge as entrepreneurs. They are trained to compete in various competitive exams like GATE, TOEFL, GRE, State and Central Government Public Service Commission Examinations, MOOC, NPTEL Online courses etc. For Slow learners - Students are identified as slow learners based on their academic performance. The root causes for poor academic performance is identified, analyzed and remedial methods are adopted. Remedial Classes are conducted beyond the working hours which is not a part of the regular time table. The Parent teacher meetings are conducted frequently to develop good rapport between parents and teachers.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.2.1-Advanced%20and%20slow%20learners.pdf |
| Upload any additional information | View File |

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

| Number of Students | Number of Teachers |
|--------------------|--------------------|
| 1053 | 128 |

| File Description | Documents |
|----------------------------|---------------------------|
| Any additional information | View File |

2.3 - Teaching- Learning Process

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

Student centric methods: The teaching learning process is organized to ensure student-centric learning by allowing the students to think critically, respond with confidence and pose

questions without reservations. Teaching aids such as OHP, LCD projectors, smart classes, broadband internet connectivity, Wi-Fi connectivity and study materials of subject is uploaded in icampus, the ERP software. The departments maintain individual libraries and internet facility to access all the journal, e-journal, e-material, e-books etc. Group Learning Method is adopted. Students are given the task to identify mini project in the pre-final year and main project in the final year as prescribed by the university and execute it.

Experiential learning: For core subjects laboratory classes are conducted to experiment the principles studied in theory classes. Beyond curriculum, Innovative Projects are also encouraged from student community under the guidance of Entrepreneur Development Cell of the college. Industrial visits are also arranged.

Participative learning and problem solving methodologies: Seminars, Comprehensive exams, Group Discussion, Brainstorming sessions, Case studies and activities under professional bodies are organized. Community surveys are done as part of extension and outreach programmes to facilitate the participation of students in social activities and to make them conscious of their social commitment.

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| Link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.3.1-Student%20Centric%20Methods.pdf |

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Effective use of ICT and E-learning resources are helpful for the students to have in depth knowledge on the subject along with the class room sessions. Students are encouraged to attend NPTEL lecture classes and read scientific publications for advanced topics in the syllabus. Advanced learners are encouraged to register for MOOC courses. The Seminar and Projects provide an opportunity for students to explore latest developments in their discipline.

For seminar presentation students are insisted to refer

latest research papers in reputed international journals in their area of interest in their own discipline and interdisciplinary departments. Each student will make presentation using ICT tools. For Projects students are utilizing e-learning resources to identify the area of project. The ICT utilization also includes the access of course materials through remote devices, online digital repositories for lectures, course materials, and digital library, online academic management systems through icampuz software, making use of handheld computers, tablet computers, audio players, projector devices etc. Digital library with NPTEL Video Lectures and ICT tools allow the students to pursue advanced courses to enhance their technical knowledge and skills. Students prepare for GATE, competitive exams and placement activities using ICT without time constraints.

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Provide link for webpage describing the ICT enabled tools for effective teaching-learning process | View File |

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

2.3.3.1 - Number of mentors

116

| File Description | Documents |
|--|---------------------------|
| Upload, number of students enrolled and full time teachers on roll | View File |
| Circulars pertaining to assigning mentors to mentees | View File |
| Mentor/mentee ratio | View File |

2.4 - Teacher Profile and Quality

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

128

| File Description | Documents |
|--|---------------------------|
| Full time teachers and sanctioned posts for year (Data Template) | View File |
| Any additional information | View File |
| List of the faculty members authenticated by the Head of HEI | View File |

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

25

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template) | View File |

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

2.4.3.1 - Total experience of full-time teachers

768

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| List of Teachers including their PAN, designation, dept. and experience details(Data Template) | View File |

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

A series test cell is constituted with Principal as the Head ,Chief coordinator, coordinator and one member from each department.Two series tests are conducted for the Internal Assessment .Series Test is conducted for a duration of 120 minutes . Each series test is conducted for 50 marks . The first 50% of the portions are covered in Series Test I. The remaining 50% of the portions are covered in Series Test II. The dates for the examinations are mentioned in the academic calendar. The format of the question papers are discussed in the class room. Dates of the examination, syllabus of the continuous internal examination and question paper pattern are transparent for all students.Faculty members prepare three sets of question papers and answer key as per the question paper pattern decided by College. The question papers of the examinations are verified by the Scrunity Committee Member and Chairman , IQAC co-ordinator and the Head of the Department.

The question papers are submitted to the series exam cell. Exam is conducted by the series exam cell in a coordinated manner. The corrected examination answer booklets are distributed to the students within three days on completion of series test.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.5.1-Internal%20Assessment.pdf |

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

If a student is not able to attend the internal tests , when he/she represents the institution in any event (on duty), owing to medical grounds or any valid reason, that student should get prior permission from the subject handling faculty, mentor and Head of the department. The final approval for retest is given by the Principal. Schedule for retest is framed and displayed in the notice board with the eligible student list. A retest is conducted to enable the student to earn internal assessment marks. The internal marks are displayed in students' notice board prior to submitting the same in the University portal. In case of any anomalies noted, student can represent and the same and will be

subjected to verification from the records available. If genuine, changes are incorporated and republished.

| File Description | Documents |
|---------------------------------|---|
| Any additional information | View File |
| Link for additional information | https://ncerc.ac.in/downloads/agar-2022-2023/criteria-2/2.5.2-Internal%20Examination%20Related%20Grievances.pdf |

2.6 - Student Performance and Learning Outcomes

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

The institute is affiliated to APJ Abdul Kalam Technological University, Kerala. The Program Outcomes (PO's), Program Specific Outcomes (PSO's) are framed by the respective departments and Course Outcomes (CO's) are well defined by the respective faculty members handling the subjects by considering the Vision and Mission statement of the college and the syllabus content. The CO's are explained to the students in the class after teaching each topic. The CO's are also present in the series test examination question papers. The PO's and CO's are displayed in all classrooms, laboratories, institute website. The course outcomes of each course is linked to the program outcomes and a set of performance criteria is mapped to provide direct quantitative evidence that program outcome is attained. The course outcomes are directly and quantitatively assessed, and mapped to the program outcomes and program specific outcomes. If the course outcomes are attained, they provide direct quantitative evidence that program outcome is attained. Qualitative analysis is also done. The course outcomes of each course are mapped to the Program Outcomes with a level of emphasis being HIGH (3), MODERATE (2) and LOW (1). Projects are reviewed by industrial experts to ensure their alignment with the learning outcomes.

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for Additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/index%202.6.1-CO,PO,PSO.pdf |
| Upload COs for all Programmes (exemplars from Glossary) | View File |

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

The course outcomes are assessed with the marks of two series tests , two assignments and university results. The marks for each series test is 50 . The portions from the first ,second and third modules are covered in Series Test I. The portions from the fourth, fifth and sixth modules are covered in Series Test II. The marks for each assignment is 30 . The portions for first assignment is covered from the first ,second and third module and the portions for second assignment is covered from the fourth, fifth and sixth module. The course outcomes are thus directly and quantitatively assessed, and are tied to the program outcomes and program specific outcomes. Qualitative analysis are done. The course outcomes of each course are mapped to the Program Outcomes with a level of emphasis being HIGH (3), MODERATE (2) and LOW (1). Reviews of these POs and COs are discussed in meetings and revisions are done. Reviews are done to focus on analytical subjects and result pulling subjects so as to improve the CO attainment levels and thereby enhancing the academic performance of the students and improve the overall pass percentage of the subjects.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for Additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.6.2-%20Attainment%20of%20PO%20and%20CO.pdf |

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

250

| File Description | Documents |
|--|---|
| Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template) | View File |
| Upload any additional information | View File |
| Paste link for the annual report | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.6.3(3)Annual%20report%202022-23.pdf |

2.7 - Student Satisfaction Survey

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

<https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.7.1%20Students%20Satisfaction%20Survey.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

9.23

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| e-copies of the grant award letters for sponsored research projects /endowments | View File |
| List of endowments / projects with details of grants(Data Template) | View File |

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

3.1.2.1 - Number of teachers recognized as research guides

3

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

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

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

4

| File Description | Documents |
|---|---|
| List of research projects and funding details (Data Template) | View File |
| Any additional information | View File |
| Supporting document from Funding Agency | View File |
| Paste link to funding agency website | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-3/3.1.1.pdf |

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

NCERC has created a platform "IEDC" where students can showcase their innovative ideas and seek all the support needed from the club. IEDC of NCERC has been registered with the Directorate of Industries & Commerce under Government of Kerala in 2016. ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED club programme of the Department of Industries & Commerce, Govt. of Kerala in 2016. We got sanction for starting TBI at NGI on 01st January 2019 from NSTEDP, Govt. of India. Innovation & Entrepreneur Development Cell (IEDC) initiated various activities for the career enhancement.

IEDC Activities. 1. Entrepreneurship awareness programme for 2nd year engineering students was organised on 29th June 2022 at seminar hall from 10:00 AM to 12:00 PM. Guest of the day was

Prajul Vishnu KL, IEDC, Fellow- KSUM. 2. National Hands on Workshop on 'DRONE TECHNOLOGY' was jointly organised by IEDC-Cordina and NCERC Robotics club on 13th & 14th October 2022 at seminar hall, Bhaskara, NCERC. The instructor from AUAS, Mr. Shivaprasad, Mr Ajit displayed different types of drones during this session. 3. KICKSTART STARTUP BOOT CAMP was organised by swavalamban chair for MSME solutions under TBI GECT in association with IEDC -Cordina, NCERC on 23rd & 24th of November 2022 at seminar hall, Aryabhatta NCERC.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-3/3.2.1.pdf |

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

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

2

| File Description | Documents |
|--|---------------------------|
| Report of the event | View File |
| Any additional information | View File |
| List of workshops/seminars during last 5 years (Data Template) | View File |

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

0

| File Description | Documents |
|--|---|
| URL to the research page on HEI website | https://ncerc.ac.in/agar-2022-23-criteria3.php |
| List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template) | View File |
| Any additional information | View File |

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

102

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| List of research papers by title, author, department, name and year of publication (Data Template) | View File |

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

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

65

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| List books and chapters edited volumes/ books published (Data Template) | View File |

3.4 - Extension Activities

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

The extension activities are primarily stands for channelizing the students for building the nation. The activities of NSS are

Environment day, distribution of Study Materials, Yoga Day Practice and Awareness Session, Clean Energy Challenge, Paper Bag Making & Distribution, "Chuttuvattam" Survey, Onamthinu Oru Neram, Beach Cleaning Campaign, Electoral Literacy, Blood Donation, Clean Village, Organic Farming, No to Drug Campaign, "Rudhirasena Blood Cell Orientation", Clean India Programme - FHC Cleaning, Clean India Programme (1.5 kg), Plastic Collection, Unity Run, "Lahari Muktha Keralam Human Chain", Helping Hands, AIDS Day Orientation Program, Blood Donation 2.0, River Cleaning, Women's Day-Seminar For Kudumbasree Units, Sanjeevanam - Jeevana 3.0, Awareness Class On 'Energy Conservation', National Dengue Day (Dry Day), No Tobacco Poster Making. The activities of NCC are World Bicycle Day, World Environment Day, World Yoga Day, Gandhi Jayanti, Anti Drug Day, Human Chain, NCC Day, NSITE Exhibition, Pulwama Attack, Mega Job Fair, Environment Day, International Doctors' Day, Kargil Vijay Diwas

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-3/3.4.3.pdf |
| Upload any additional information | View File |

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

2

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Number of awards for extension activities in last 5 year (Data Template) | View File |
| e-copy of the award letters | View File |

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with

industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

40

| File Description | Documents |
|--|---------------------------|
| Reports of the event organized | View File |
| Any additional information | View File |
| Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template) | View File |

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year**

2653

| File Description | Documents |
|--|---------------------------|
| Report of the event | View File |
| Any additional information | View File |
| Number of students participating in extension activities with Govt. or NGO etc (Data Template) | View File |

3.5 - Collaboration**3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year****3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year**

225

| File Description | Documents |
|--|---------------------------|
| e-copies of related Document | View File |
| Any additional information | View File |
| Details of Collaborative activities with institutions/industries for research, Faculty | View File |

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

3

| File Description | Documents |
|--|---------------------------|
| e-Copies of the MoUs with institution./ industry/corporate houses | View File |
| Any additional information | View File |
| Details of functional MoUs with institutions of national, international importance, other universities etc during the year | View File |

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The Institute has sufficient classrooms (55-Nos), seminar-halls (6-Nos), various laboratories, library with ILMS, and 250 MBps internet facility including Wi-Fi. The entire ambience of the college is clean and fresh. Total area of our institution is 26228 Sq. Mts.

Aryabhata

'Aryabhata' is a hexagonal six storied academic building, having a built up area of 1.25 lakhs sq. ft. It houses 5 U.G and P.G. departments, Principal's office, academic office, conference room, board room, cabins of faculty, seminar hall, Placement Office,

computer laboratories and tutorial rooms.

Bhaskara

The first academic block with a built up area of one lakh sq. ft. houses the boardroom, conference room, faculty cabins, tutorial rooms, first year classrooms, electronics laboratories, computer science laboratories, language lab, drawing halls, gymnasium, billiards room and the store. The departments of Civil engineering and Applied Sciences and Humanities also operate from here.

Kapila

This block has an area of 60.000 sq. ft., houses MBA & MCA Departments, boardroom, tutorial rooms, faculty cabins, classrooms, seminar halls, PG library, and yoga hall and computer laboratories.

Varahamihira

This building has an area of 30000 sq.ft. is the main workshop building with workshops of Mechanical Engineering Department & four Laboratories of Electrical Engineering Department.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.1.1_Infrastructure.pdf |

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

For all-round development of the students, there is fully equipped gym - fitness zone containing all modern equipment. This area (comprising nearly 100 sq. meters) has a range of equipment like dumb bells, steering plates, biceps steering plates, skipping ropes, hyper extension, fore arm extension, leverage squat/calf raise machine, bicep cart, fore arm extension, pull up stand, bench press, abs machine etc.

The institute has playground measured 16,800 sq. meters to accommodate

basketball court, badminton court, football ground, cricket ground, Kabaddi court, handball court, hockey ground, volleyball ground and our students have bagged good winning records at inter - collegiate and Zonal levels.

The institution boasts of huge, commodious Brahmagupta Auditorium having a seating capacity of around 800. It is used for conducting seminars, workshops, conferences, cultural events/activities and co-curricular activities. A committee along with staff and students organizes an annual cultural function named BLOOM into provide a platform for students to display their talents and organizational skills.

The students organize & participate in many cultural activities like group dance, skits, MIME, Debate, Street Play, face Painting, Drawing etc., during the cultural day. The college also organizes Annual day function every year where the students to participate many cultural activities.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.1.2_Facilities_for_cultural_sports_&_games.pdf |

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

61

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for additional information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.1.3_Geo-Tagged_Photos_of_Classrooms.pdf |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | View File |

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)**4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)**

64.1

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Upload audited utilization statements | View File |
| Upload Details of budget allocation, excluding salary during the year (Data Template) | View File |

4.2 - Library as a Learning Resource

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

The college has a central independent library with plinth area 9000 sq.ft with all modern facilities. The library to cater to the needs of faculty members and students with access to books and journals. The central library functions on all days except Sundays & Government holidays from 8.00am to 8:00pm. The books in the general library are categorized as Reference and textbook. Access to the library is managed by using ID card. E-Learning Resources, like EBSCO and J-Gate are available in the Library, which is being effectively used by the faculty and students. The entire library is fully automated by software called KOHA LIBRARY SOFTWARE. The library is constantly updated with the latest magazines, national & international journals, reference books and other material at regular periods. The library owns its digital set up with 250Mbps speed to access e-journals, e-books and other online resources like DELNET, Shodhganga & ShodhSindhu. We have Core reference collection of McGraw Hill, Springer and Elsevier, chronicle, cengage learning etc. Study materials for competitive examinations are available in the library. DELNET is very helpful to access rare books from various institutions libraries. Manuscripts from various departments are available in our library for student reference.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for Additional Information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.2.1.pdf |

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template) | View File |

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

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

18.52

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

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

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

452

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Details of library usage by teachers and students | View File |

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

All the computers of the institution are enabled with LAN connection .The total bandwidth is divided for all the computers through LAN and also through Wi-Fi hotspots. Eight Wi-Fi access points have been installed at various places. We have totally 620 computers with recommended configuration. All the staff members are having unique Nehru domain user-name and password for storing their data. We are having separate team called IT Help Desk to troubleshoot all IT related issues.

The institute tied up with Microsoft to start a Microsoft Information Centre (MIC) to develop the skills in students. Institute frequently updates all the open source software like Scilab, GCC, maxima, etc., as per AICTE guidelines.

College ICT facilities like LCD projector, desktop recorder, mics, audio systems, etc., are updated frequently. The scanners, printers, photocopier (Xerox) facility is available for students and faculty members. Institution is under the cover of CCTV surveillance.

Online Exam management system is used in the exam cell as per APJKTU norms.

IT infrastructure facilities are audited every year and internal audit report is prepared to include the amount required to updated IT facilities in the next academic year budget.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.3.1 IT Facilities.pdf |

4.3.2 - Number of Computers

| 473 | |
|-----------------------------------|---------------------------|
| File Description | Documents |
| Upload any additional information | View File |
| List of Computers | View File |

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

196.52

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Audited statements of accounts | View File |
| Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates) | View File |

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

Continuous Improvement

NCERC continuously improve the effectiveness of Quality Management system through the use of Quality policy, Quality Objectives, audit results, Analysis of data, corrective & preventive action &

management review.

Corrective Action

Documented procedure has been established to define:

1. Review of non-conformities including customer complaints
2. Determining the causes of non-conformities.
3. Evaluating the need for action to ensure that non[1]conformities do not recur.
4. Determining & implementing the action needed.
5. Recording results of action taken.
6. Reviewing effectiveness of corrective action taken

Preventive action

A documented procedure has been established for

1. Determining potential non-conformities & their causes.
2. Evaluating the need for action to prevent occurrence of non-conformities.
3. Determining & implementing the action needed.
4. Recording results of action taken.
5. Reviewing effectiveness of preventive action taken.

Every year, departments submits budget proposal to the Principal. This is discussed in the HOD's meeting and the management will sanction during the beginning of academic year. From the submitted tenders, the management selects quality products at reasonable rate. For the maintenance of these facilities, housekeepers are allotted. Our college has a dedicated Campus Maintenance Office with a maintenance register. All complaints and recommendations are being checked and processed by the Officer with the approval of the Principal

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-4/4.4.2 Maintenance Procedures.pdf |

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

114

| File Description | Documents |
|--|---------------------------|
| Upload self attested letter with the list of students sanctioned scholarship | View File |
| Upload any additional information | View File |
| Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template) | View File |

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

1

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

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

| File Description | Documents |
|---|---|
| Link to Institutional website | http://ncerc.ac.in/capacity-building-skills-enhancement |
| Any additional information | View File |
| Details of capability building and skills enhancement initiatives (Data Template) | View File |

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

784

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

784

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

5.1.5 - The Institution has a transparent

A. All of the above

mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

116

| File Description | Documents |
|--|---------------------------|
| Self-attested list of students placed | View File |
| Upload any additional information | View File |
| Details of student placement during the year (Data Template) | View File |

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

4

| File Description | Documents |
|--|---------------------------|
| Upload supporting data for student/alumni | View File |
| Any additional information | View File |
| Details of student progression to higher education | View File |

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

5

| File Description | Documents |
|--|---------------------------|
| Upload supporting data for the same | View File |
| Any additional information | View File |
| Number of students qualifying in state/ national/ international level examinations during the year (Data Template) | View File |

5.3 - Student Participation and Activities

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

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

0

| File Description | Documents |
|--|---------------------------|
| e-copies of award letters and certificates | View File |
| Any additional information | View File |
| Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template) | View File |

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

Institution facilitates student's representation and engagement in various administrative, co-curricular and extracurricular activities. Institution facilitates student participation in academic administration. Student representatives are identified from each class as members of course and class committee. The progress of the class, the quality of teaching learning process , evaluation of internal assessments , infrastructural improvements, addition of facilities for academic purposes are represented. Students are motivated to participate and organize co-curricular activities. They are given ample opportunities to organize department association and professional forums like IEEE. Students are assigned with the responsibility of program coordinator and faculty advisors are nominated to provide necessary support to students. This is helps students to improve their organising capability, leadership quality and communication skills. All extra-curricular activities organized by the institution are coordinated by student representatives under guidance of assigned faculty. The selection of events, regulating the events and related celebrations are brought under the coordination of students with supervision of faculty. Students are encouraged to hold events as decide by student community so as to nurture and encourage the artistic talents of students. These programs will enable students to have a holistic development enriching further career and personal growth

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://ncerc.ac.in/downloads/agar-2022-2023/criteria-5/5.3.2.pdf |
| Upload any additional information | View File |

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

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

38

| File Description | Documents |
|---|---------------------------|
| Report of the event | View File |
| Upload any additional information | View File |
| Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template) | View File |

5.4 - Alumni Engagement

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

(Society Registrar Govt of Kerala Reg. Number: TSR/TC/206/2021)

The Alumni of Nehru College of Engineering and Research Centre, Pampady under the stewardship of the Principal of the college formed an association of the alumnus of Nehru College of Engineering and Research Centre. A President, 2 Vice Presidents, 2 Secretary, Treasurer and Sixteen members for the executive committee were nominated. Memorandum of Association and By-law that were formulated were approved unanimously by the members. AANCERC is registered under Section 12 of the Society Registration Act 1955, Govt of Kerala. Contributions of the Alumni Association Facilitate interaction between Alumni and Departments of Nehru College of Engineering and Research Centre. Promote research and

academic activities. Organize social and cultural activities that bring together Alumni, Current scholars and the fraternity of Nehru College of Engineering and Research Centre. Establish endowments and scholarships. Award incentives/prizes for outstanding contributions of scholars. Aid fresh graduates and postgraduates in finding job openings and entrepreneurship opportunities by coordinating with placement cell and other academic works. Conduct health awareness and camps. Association shall be non-profit sharing in nature and no member shall have any proprietary right or interest in the assets and liabilities of the Association.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://ncerc.ac.in/alumni |
| Upload any additional information | View File |

5.4.2 - Alumni contribution during the year (INR in Lakhs)

A. ? 5Lakhs

| File Description | Documents |
|-----------------------------------|---------------------------|
| Upload any additional information | View File |

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

VISION

To mould true citizens who are millennium leaders and catalysts of change through excellence in education.

MISSION

NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them in to technological giants,

dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

Application of Vision and Mission

It brings a holistic and futuristic development in the field of education to transform students into future Leaders. Principal provides a platform for faculty members to interact in faculty meetings and HOD meetings. Faculty members provide constructive suggestions for the improvement of the academics and non academic activities. These suggestions are passed on to the management for appropriate decision making and implementation. The institution also conducts internal and external audits both in academics and financials so that proper governance is practiced.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/agar-2022-2023/criteria-6/6.1.1 Governance of the Institution.pdf |
| Upload any additional information | View File |

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

The institution practices a bilateral mode of management and encourages the participation of students and teachers in decision making. Principal provides the leadership and direction to all departments. Day to day and long term decisions regarding the implementation of activities are taken at HOD meetings in the presence of the Principal. Examination related works are headed by the internal in charge of examinations. Other sections like Administrative office, central library and all the UG and PG departments are under the direct supervision of the Principal. Timely meetings are conducted with the responsible section heads and HODs in-order to resolve issues and to provide a focused direction to the sections. The following committees are in existence to decentralize the academic and administrative activities

- IQAC
- Disciplinary and Anti-Ragging Committee
- Grievance and Redressal Committee

- Entrepreneurship Development Committee
- Training and Placement Committee
- NSS Committee
- NCC Committee

All the above committees are headed by a senior faculty and its members are a team of faculty members and students. Each committee conducts different meetings to solve different issues and to come out with initiatives to enhance the working of the committee towards development of the college.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.1.2 Decentralization & Participative Management.pdf |
| Upload any additional information | View File |

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The institutional strategic plan is effectively deployed through the various academic and administrative operations adopted by the institution. All the eligible programs have been accredited by the National Board of Accreditation (NBA) in 2022. The institution has been reaccredited by National Assessment and Accreditation Council and has been awarded an A grade with a score of 3.18/4 and got the recognition as the first Engineering Institution in the state to get such a high score in the accreditation process.

The institution has entered into MoU with several companies for reaffirming industry Institution Interaction. Start-up ventures have been in place in 2022-23 and is constantly nurtured by the effective mentoring by the Institution. The institution has successfully conducted FDP, international conferences, webinars and workshops. The institution has participated in the NIRF ranking 2023. The institution promotes research publications, product patenting and acquiring IPR through consistent efforts. The institution has conferred Autonomous Status through its consistent operation

| File Description | Documents |
|--|---|
| Strategic Plan and deployment documents on the website | View File |
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.2.1_Strategic_Plan.pdf |
| Upload any additional information | View File |

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

The direction and objectives for all programmes are provided by the institution's vision and mission. For the institution to operate well, a clear scalar chain and definite system are in place. The organisational structure of Nehru College of Engineering and Research Centre (sponsored by Nehru College of Educational and Charitable Trust) is clearly outlined and explains how specific operations are directed in order to meet the organization's aims. The Chairman of the Board of Trustees, CEO & Secretary and the Trustee who oversees the Institution are members of the Board of Trust.

The Principal is primarily responsible for overseeing the academic activities, which include numerous departments, the library, the hostel placement cell, the store, physical education, student counsellors, and exam coordinators. The workshop and laboratory are aided by the professors, associate professors, assistant professors, and professors. The people in authority oversee the academic activity. The Institution's Principal is in charge of the Administrative, Establishment and Finance Departments collectively.

The Principal and Chairperson of the Nehru Group of Institutions create and approve the annual academic calendar and programme budgets. The department head, principal, resource head, and chairman conduct and approve an audit of the department's actions and resources. Reports are created based on the analysis of performance reviews, faculty feedback, student feedback, parent feedback, and various complaints.

| File Description | Documents |
|---|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.2.2_Organogram.pdf |
| Link to Organogram of the institution webpage | https://www.ncerc.ac.in/organizational-chart |
| Upload any additional information | View File |

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) Document | View File |
| Screen shots of user inter faces | View File |
| Any additional information | View File |
| Details of implementation of e-governance in areas of operation, Administration etc(Data Template) | View File |

6.3 - Faculty Empowerment Strategies

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

NCERC implemented a Staff welfare fund to assist staff members in their financial crisis. The financial aid will be made available in the form of a welfare fund loan, with a nominal interest rate under the diminishing method. NCERC also offers gratuity for all its staff members with more than five years of experience on its scale.

For teaching staff -Our own associated concern the PK DAS Hospital has issued a Privilege Card, Health Policy Scheme, free Chikitsa to All employees who have been working for more than one year up to the ceiling of Rs.50,000, an Accident insurance scheme for teaching staff is ensured through Universal Sompo General Insurance Company, Coimbatore, Financial support to faculty

members for publishing a research paper in international, national journals, rupees 5000/and 1500/ respectively. Financial support to faculty members for publishing books under reputed publishers, Rs 5000/for individual authors and Rs 1500/ for coauthors is provided. All faculty members are eligible for casual leaves, compensatory leave, OD, vacation leave, emergency leave, maternity leave, annual leave, medical leave etc.

For Non -teaching staff - PK DAS Hospital Privilege Card, Health Policy Scheme, free Chikitsa to all employees who have been working for more than 1 year up to the ceiling of Rs.50,000,an Accident insurance scheme for teaching staff is ensured through Universal Sompo General Insurance Company. All nonteaching staff is eligible for casual leaves, compensatory leave, OD, vacation leave, emergency leave, maternity leave, annual leave, medical leave, ESI etc.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/agar-2022-2023/criteria-6/6.3.1 Faculty welfare Measures.pdf |
| Upload any additional information | View File |

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

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

0

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

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

5

| File Description | Documents |
|--|---------------------------|
| Reports of the Human Resource Development Centres (UGCASC or other relevant centres). | View File |
| Reports of Academic Staff College or similar centers | View File |
| Upload any additional information | View File |
| Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template) | View File |

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)**6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year**

33

| File Description | Documents |
|---|---------------------------|
| IQAC report summary | View File |
| Reports of the Human Resource Development Centres (UGCASC or other relevant centers) | View File |
| Upload any additional information | View File |
| Details of teachers attending professional development programmes during the year (Data Template) | View File |

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Performance reviews are conducted and recorded at regular periods. All workers, including staff, contract workers, interns, students, and trainees, must undergo evaluations if they assist in or provide care for institutional operations.

Based on the expected performance outlined in the job descriptions, performance appraisals are assessed. Staff members in supervisory cadres and above (qualified with the ability to comprehend the purpose and fill out the format) will be asked for self-evaluation reports. Staff members eligible for the stipulated increments at the conclusion of their first year of employment with the institution. The increments will take effect in the start of each academic year.

At the management's discretion, staff workers may receive additional financial raises based on their contributions and accomplishments. Student input and departmental and institutional head evaluations comprise the annual staff performance review systems. At the conclusion of each academic year, all staff members are obliged to submit their self-evaluation reports in the proper format. Each employee will have a conversation with the department head, principal, human resources head, and administrator about the outcomes of the appraisal.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.3.5 Performance Appraisal System.pdf |
| Upload any additional information | View File |

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Every financial year, the college will perform both an external audit by the statutory auditors and an internal audit through departmental staff.

Internal Control

Every month, taking into consideration all of the transactions from the previous month, the internal financial accounting would be finished before the 10th. The management-appointed internal auditors will audit the monthly accounts once they have been completed. A group of accountants under the direction of the finance manager prepares the books of accounts. Any errors or deficiencies found during entry verification could be corrected in the same month by the relevant departments.

External Audit

The college office must be visited by the external statutory auditors twice a year for an audit, after which they must submit their final audit report. A group of chartered accountants from an outside organisation make up the external auditors. Each spending will be compared to the submitted bills to ensure that they are authentic. The final statutory audit report must be presented to the Governing body for approval in the month of August each year once the audit is finished. The financial account documents could be used for all statutory reasons once they had been approved.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.4.1 Financial Audits.pdf |
| Upload any additional information | View File |

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

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

0

| File Description | Documents |
|---|---------------------------|
| Annual statements of accounts | View File |
| Any additional information | View File |
| Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template) | View File |

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The institution's main source of funding comes from the tuition fees it collects from students. This is in conformity with the policies and guidelines set forth by the connected university, the state and federal governments, and the department of education.

The main purposes of this fee money are student development, seminar and field trip planning, workshop planning, teacher compensation and other innovative activities. They are primarily used to plan the event, buy supplies for the event, and pay for all associated costs. Moreover, money accumulates as internal revenue like interest from bank accounts.

This institution has given the creation and use of finances the utmost importance in order to accomplish the Institutions goals as part of the Outcome Based Education system.

1. Enough money is set aside to support efficient teaching, learning methods, such as the delivery of FDPs, orientation programmes, workshops, cross-disciplinary activities, and training programmes that guarantee high-quality education.

2. The budget will be used to cover ongoing operational, administrative, and fixed asset maintenance costs.

3. Sufficient resources are used to build and maintain excellent infrastructure for the institution, library, and social service initiatives.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.4.3 Mobilization of Funds.pdf |
| Upload any additional information | View File |

6.5 - Internal Quality Assurance System

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

In order to enhance quality improvements in the academic process, pre-accreditation exercise, and post-accreditation exercise, the college's IQAC was created in April 2014. Under the rigorous supervision of the Principal, a group of faculty members from all the departments work together to coordinate the IQAC cell. The cell's goal is to create a system for consciously, consistently, and catalytically improving the institution's overall performance at all levels with the participation of all stakeholders in order to increase quality through internalising a quality culture and institutionalising best practices.

The IQAC has been a pro-active participant in the overall benchmarking process, from developing strategies to improve the teaching-learning process through increased use of ICT, expanding the library, transforming it into a multivalent knowledge portal, and signing MOUs with research institutes to re-defining the boundaries of a vitalizing, meaningful, and holistic education.

The IQAC has held meetings on a regular basis, submitted the AQARs to NAAC on time, gathered feedback in the proper forms from various stakeholder categories, analysed that feedback, and used it to improve the quality of the programme. It has also organised an Academic and Administrative Audit and started a follow-up process based on the suggestions and recommendations of eminent evaluators.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/agar-2022-2023/criteria-6/6.5.1 Functions of IQAC.pdf |
| Upload any additional information | View File |

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Contribution of IQAC to the teaching and learning process

Random sampling is used to check course files, lecture schedules, and lesson plans. Verification of internal series test analysis and Blooms Taxonomy-based question-setting scheduling evening classes specifically for weak students. Frequent input from the stakeholders (students, alumni, business leaders, academic institutions, and parents) identifies new procedures and suggests them for raising quality.

For all Departments, IQAC conducts internal academic audits twice in a semester. The feedback and recommendations received during the academic audit are taken into account when creating the action plan for the next year. The Internal Audit Cell at the Institutional Level and the External Auditor at the University Level are the two organisations that make up the Academic Auditing System.

The department is responsible for monitoring course files, lecture schedules, and course plans by random sampling conducts an internal academic audit. Internal series test analysis verification, Blooms Taxonomy-based question-setting, scheduling special classes for underachieving kids. With regular inputs from the stakeholders, new procedures and practices are implemented for raising the standard, improving the department's monitoring/counselling system, assess the effectiveness of individual faculty members and the department as a whole.

| File Description | Documents |
|---------------------------------------|---|
| Paste link for additional information | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-6/6.5.2 IQAC Internal Audit.pdf |
| Upload any additional information | View File |

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

| File Description | Documents |
|--|---|
| Paste web link of Annual reports of Institution | https://www.ncerc.ac.in/downloads/aqar-2022-2023/criteria-2/2.6.3(3)Annual report 2022-23.pdf |
| Upload e-copies of the accreditations and certifications | View File |
| Upload any additional information | View File |
| Upload details of Quality assurance initiatives of the institution (Data Template) | View File |

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Nehru Group of Institution is pledged to Mould true citizens, and all students of the campus are treated equally without gender barriers. We encourage our students to recognize gender inequalities and grow without stereotypes or prejudices so as to create a more equitable society. This basic strategy of equality, in a cross-curricular way, from different domains and activities of the college, is our first step to combat inequality. Our programs

are devised by including mixed teams. Active Monitoring is made at all levels by Faculty advisors in this regard Faculty members have dedicated themselves to be role models in this ideology In classrooms, we create an environment of equality and respect in the classroom by making boys and girls share responsibilities and work together to complete tasks or solve problems Guest lecturers are invited who can speak about their career and experience to set an example for students, through which students will learn on responsibilities, commitments, skills and efforts achieved by women and will develop reasoned ideas of their role in society. Workshops on gender equality are organized which could help children adopt an equalitarian attitude through awareness, role-plays and experience sharing.

| File Description | Documents |
|--|---|
| Annual gender sensitization action plan | https://www.ncerc.ac.in/downloads/criteria/7/1/7.1NCERC.pdf |
| Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information | https://www.ncerc.ac.in/downloads/criteria/7/1/7.1NCERC-GEAP.pdf |

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

A. 4 or All of the above

| File Description | Documents |
|--------------------------------|---------------------------|
| Geo tagged Photographs | View File |
| Any other relevant information | View File |

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management The college has a fully-purposeful Sewage Treatment Plant installed in the campus, which is used to suck the wastages from the hostel, to remove contaminants and produce

treated wastewater (or treated effluent) that is safe enough for release into the environment. The semi-solid by-product is also well treated so as to be used as the manure for college plantation area.

Liquid waste management Our College manages an ETP Plant to effectively filter the liquid wastage. The Unit is installed near to the Canteen block and efficiently functions in treating waste water before it is released to the earth. The plant is well maintained and fully utilized.

E-waste management Being an engineering college, we remain responsible about managing the damaged electronic-parts. Any sort of nonrecyclable wastes are collected from the respective departments/lab/office and are stored in a safe place with proper concrete flooring. The e-waste is further collected by external agencies.

Waste recycling system The STP and ETP units are so established to be capable of effectively retaining the environmental balance, and the college stays pledged not to harm the nature by mean of any such wastes.

| File Description | Documents |
|---|---------------------------|
| Relevant documents like agreements / MoUs with Government and other approved agencies | View File |
| Geo tagged photographs of the facilities | View File |

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 |
|---|---------------------------|
| Geo tagged photographs / videos of the facilities | View File |
| Any other relevant information | View File |

| | |
|---|-------------------------------------|
| 7.1.5 - Green campus initiatives include | |
| 7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1.Restricted entry of automobiles 2.Use of bicycles/ Battery-powered vehicles 3.Pedestrian-friendly pathways 4.Ban on use of plastic 5.Landscaping | A. Any 4 or All of the above |
| File Description | Documents |
| Geo tagged photos / videos of the facilities | View File |
| Various policy documents / decisions circulated for implementation | View File |
| Any other relevant documents | View File |
| 7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution | |
| 7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities | A. Any 4 or all of the above |
| File Description | Documents |
| Reports on environment and energy audits submitted by the auditing agency | View File |
| Certification by the auditing agency | View File |
| Certificates of the awards received | View File |
| Any other relevant information | View File |
| 7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage | A. Any 4 or all of the above |

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

| File Description | Documents |
|--|---------------------------|
| Geo tagged photographs / videos of the facilities | View File |
| Policy documents and information brochures on the support to be provided | View File |
| Details of the Software procured for providing the assistance | View File |
| Any other relevant information | View File |

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

Nehru College of Engg and Research Centre stands as an effective pillar in contributing towards cultural, regional, linguistic, communal, socioeconomic and all such diversities.

Our efforts/initiatives to build several environments to preserve tolerance and societal harmony were well recognized, and these projects ultimately targets to inculcate some good qualities like modesty and obligation, in our student mindset. Our college promotes good relations with neighborhood community through extension activities and other programs for the betterment of society and to inculcate the social responsibility among the students.

Social Extension Activity: Our college organizes various extension activities well supported by management, and ensures student participation in all those community activities. Some notable contributions are listed below

Onam celebration for Thanal Balasramam

Birthday lunch with Mothers of Pambady Mathrusadan

NSS initiates social awareness campaigns and Special camps to address issues like health, cleanliness, road safety etc.

Gram Swaraj Survey using ODK Bharathapuzha Cleaning

Charity Program Grocery Kit for Cleaning staff Library at Sabari ashramam Health care activities:

Blood Banks students extend their support by donating blood to needy people and promote voluntary blood donation camps.

Yoga and meditation is practiced in the campus House for Poor

| File Description | Documents |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | View File |
| Any other relevant information | View File |

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

NCERC sets high priorities for values, rights and constitutional obligations with an ultimate aim of edging the student community as responsible citizens

Several such projects were initiated by our college focusing on these domains, which we believe, created positive impact on the society and also created a notion of responsibility among the students. Some notable programs are listed below.

NSS Camps: Organized every year for 7 days duration, with daynight boarding & lodging held in different parts of the locality. Volunteers undertake many scheduled activities to do social service in adopted village during thecamp.

School Police Cadet support: The Student Police Cadet Project is a school-based youth development initiative of Kerala government. It trains high school students to evolve as future leaders of a democratic society

Excise department programs: 'Vimukthi' was a socially relevant campaign initiated by NCERC along with Kerala Excise Officials

Anti drug Campaign: We conducted various episodes like awareness programs inside & outside the college with the help of government authorized agencies/ organizations.

Legal Awareness Program: To spread legal awareness among our staff, faculty members and students, we conduct legal awareness programmes.

Flash Mob: to spread awareness on social issues, in various locations.

| File Description | Documents |
|--|---|
| Details of activities that inculcate values; necessary to render students in to responsible citizens | https://www.ncerc.ac.in/downloads/aqar-2021-2022/criteria3/3.4.3.pdf |
| Any other relevant information | https://www.ncerc.ac.in/ncc |

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. 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 4. Annual awareness programmes on Code of Conduct are organized

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Code of ethics policy document | View File |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims | View File |
| Any other relevant information | View File |

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

and festivals

Our college helps the student community to relate with the rich cultural heritage of India, by propagating the importance of protection & preservation of Indian culture. The 'National Flagship Programmes' promoted by the MHRD, UGC, University and the local Govt. offices are actively followed. National/International Days are celebrated with great enthusiasm. Institute pay tribute to all the national heroes on their Birth and Death Anniversaries, organizing spl.lecture,rally or the competitions like elocution, skit, essay, and posters etc.

The college organizes activities on these days of importance so as to recall the contributions of our leaders in building the nation and imbibe the moral and ethical behavior of students in their professional and personal lives. GandhiJayanthi: programs like Quiz, Essay Competition etc. during the first week of October.

Childrens Day: initiated a Seminar where PG students handled some talks on Life and Contributions of Pt.Jawaharlal Nehru..

International Yoga Day:

Republic Day: Independence Day

Abdulkalam day:

P N Panicker week (Kerala readers week):

Teachers day

Internatinal Women's Day

Onam: Onam Festival falls during the Malayalam month of Chingam (August - September). It is the biggest festival celebrated with joy and enthusiasm by people of all communities in Kerala.

Christmas

Eid-al-Fitr

| File Description | Documents |
|---|---------------------------|
| Annual report of the celebrations and commemorative events for the last (During the year) | View File |
| Geo tagged photographs of some of the events | View File |
| Any other relevant information | View File |

7.2 - Best Practices

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

Best Practicel Playing the role of a Participating Institute for Unnat Bharat Abhiyan

Objectives To aid UBA project by understanding their development agenda andsupport relevant to national needs

The ContextNCERC is the Partnership Institute of UBA in our region.

The Practice

Adopted FIVE villages: Kaniyarkode, Kuthampully, Pampady, Puthirithara &Thiruvilwamala

Evidence of Success The UBA cell developed the competence of its working group by appropriate orientation, training and creation of appropriate ethos trawling towards indigenous and sustainable development of our Panchayath

Problems Encountered and Resources Requireddifficult to meet the Govt authorities

Resources Required grant per annum is not well sufficient

Best Practice2 Empowering Managerial skills of Student Community through Leadership Advantage Workshop

Objectives of the Practice To develop students as young Leaders who possess a deep sense of self-awareness

The Context An in-depth journey to personal mastery as a leader,

designed to foster the participants as emerging leaders and high potential people.

The Practice Our skilled facilitators, during the entire workshop sessions, helped the students to open a gateway to powerful new thinking

Evidence of Success Enabled the teams to react, Imparted Experiential Leadership

Problems Encountered and Resources Required

Attitude of heads of different colleges

Time constraints

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://www.ncerc.ac.in/downloads/criteria7/BP2/7.2.1NCERC.pdf |
| Any other relevant information | https://www.ncerc.ac.in/downloads/criteria7/BP2/7.2.1NCERC-BPB.pdf |

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

To accomplish a Holistic approach for Student Development.

The motto of NGI is Molding True Citizens.. Our college has always followed a principle, not producing mere Certified Techies/Scientists/Managers; but of creating Complete Citizens., who would pragmatically excel in all strata of Professional, Personal and Social life.

We accomplish a Holistic approach for Student Development. Academic excellence alone cannot assure success and happiness in life or career. Holistic development refers to the overall development of Cognitive, Creative, Physical, Emotional and Social abilities in a student so that he/she is capable of facing the demands and challenges of everyday life.

We envision an education system that would help our students to learn academics, to know oneself, to build healthy relationships, to develop resilience and to work in a team and be existent to the activities in the society

NCERC approach for Holistic Education system, has FIVE core pillars. And we design a set of Activities/Projects/Events to be included in each of these pillars. Through participation of these programs, our student community would automatically involve into the Holistic tracks, and mold themselves into True Citizens.

IEDC

Karma

NAppIER

NeCTAR

StartUp

TBI

NSite

NCC

Bloom

Samanwaya

Arike

HeliFly

NSS

PadhamOnnu

PKDas Home

CSR

| File Description | Documents |
|--|---------------------------|
| Appropriate web in the Institutional website | View File |
| Any other relevant information | View File |

7.3.2 - Plan of action for the next academic year

In accordance with NCERC approach for Holistic Education system, and its FIVE core pillars, we have planned an Action Plan for next academics year. 2023-24. with Activities/Projects/Events. Through participation of these programs, our student community would automatically involve into the Holistic tracks.

The Activity Matrix is summerised as Pillar Focus Area
Events/Activities

Cognitive- Student must be able to learn how to solve complex tasks in their life - no matter if they are related to situations at college, work, or in our private life.

IIC IEDC Karma NAppIER

Creative- Student must come up with new solutions to problems that the world of tomorrow will face. Creative skills support their openness to new experiences and help to transform those ideas in meaningful ways.

NeCTAR StartUp TBI NSite

Physical -Student must have strong physical skills, exercise their minds and bodies to maintain wellbeing towards a successful life.

NCC Bloom Samanwaya

Social -Student are to be empowered as strong collaborators and communicators, to have healthy relationships with family and friends.

Arike HeliFly NSS

Emotional -Student must pcess strong emotional balance, be able to tackle challenges in everyday life and relate in important ways to their family and friends.

PadhamOnnu PKDas Home CSR

