



YEARLY STATUS REPORT - 2021-2022

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 Post**
- City/Town **Thiruvilwamala ,Thrissur**
- State/UT **Kerala**
- Pin Code **680588**

2.Institutional status

- Affiliated /Constituent **Affiliated to APJ Abdul Kalam Technological University**
- Type of Institution **Co-education**
- Location **Rural**

- Financial Status **Self-financing**
- Name of the Affiliating University **APJ Abdul Kalam Technological University**
- Name of the IQAC Coordinator **Mr. David E**
- Phone No. **04884281670**
- Alternate phone No. **04884284001**
- Mobile **8089588659**
- 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/naac/2>

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-2021-2022/criteria2/Academic%20calendar%202021-22.pdf>

5. Accreditation Details

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
AICTE	STTP	ISTE	2021	93000

8. Whether composition of IQAC as per latest NAAC guidelines **Yes**

- Upload latest notification of formation of IQAC [View File](#)

9.No. of IQAC meetings held during the year 4

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**
- 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? No

- If yes, mention the amount

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

NAAC Peer Team Visit was successfully completed during November 2021

NBA Expert Team Visit was successfully completed during May 2022

International Conference on " Emerging Trends in Signal, Systems and Information " (ICETSSI 2022) was organized during May 2022

National Conference on " Innovation, Technology and Sociology" (NCITS 2021) was organized during November 2021

Webinar on "Outcome Based Education" was organized during February and March 2022

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
NAAC Peer Team Visit	Successfully completed during November 2021
NBA Expert Team Visit	Successfully completed during May 2022
Organize International Conference on Emerging Trends in Signal, Systems and Information	Successfully organized during May 2022
Organize National Conference on Innovation, Technology and Sociology	Successfully organized during November 2021
SEED Grant Scheme	Implemented for funded projects
MODROB applied	MODROB sanctioned for an amount of Rs.12.7 Lakhs
Outcome Based Education	Webinar organized during February and March 2022

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

- Name of the statutory body

Name	Date of meeting(s)
Governing Council	02/03/2022

14. Whether institutional data submitted to AISHE

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• if yes, whether it is uploaded in the Institutional website Web link:	https://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/Academic%20calendar%202021-22.pdf				
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Cycle 2	A	3.18	2021	16/11/2021	15/11/2026
6.Date of Establishment of IQAC			21/04/2014		
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Yes

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Name	Date of meeting(s)
Governing Council	02/03/2022

14. Whether institutional data submitted to AISHE

Year	Date of Submission
2021	08/11/2022

15. Multidisciplinary / interdisciplinary

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.

Institution is offering the following Minor degree programs in 2020-21 - Power Engineering, Machine Learning , Networking and Mechatronics Engineering.

Interdisciplinary Elective Courses are offered in the final semester (2015 scheme) and open electives are offered in the seventh semester (2019 scheme) for all UG B.Tech Programs and the following courses are offered in our Institution in 2020-21 - 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 . The following add on courses were offered during the academic year 2021-2022.

Mass transfer operations,Elements of aeronautics,Universal Human values - understanding Harmony,Introduction to welding technology,Additive Manufacturing,Nanocomposites,Centrifugal Governor,Maintaince of two wheelers, Introduction to Python programming,Human Computer Interaction, Advanced Computing Techniques,Verilog coding,Basics of electronics through VL,VLSI lab using VL,Robotics Process Automation,Automotive Technology,Digital System Design,Custom Power Devices,Artificial Intelligence In Smart Grids,Introduction To Renewable Energy and 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.

Academic calendar of the institute was framed in accordance with the academic calendar of the affiliating University APJ Abdul Kalam Technological University, Kerala.

Online classes were scheduled from 08:30 am to 01:30 pm for theoretical subjects. Online classes were scheduled from 02:30 pm to 04:00 pm for laboratory session and minor engineering programs.

Using Webex, online classes were conducted thorough icampuz login. Faculty and students login using the unique icampuz login id. Icampuz is the ERP software of the institute.

Lecture of each class is uploaded in Google Classroom. The course materials of all the subjects are uploaded in the college website. The course materials are also accessible as google drive link in icampuz login. Lecture videos are uploaded in NCERC Youtube. Lecture materials are uploaded in NCERC slide share. The learning app like NAPPIER, nPODS are developed by the team of faculty members assisting in e-learning.

Virtual Labs were used to demonstrate practical sessions. The recorded videos of the experiments were uploaded in Google classrooms and NCERC Youtube. The manual for laboratory sessions are uploaded in Google classrooms and college website. Live demonstration of the experiments were also done via online.

Continuous Internal Assessment were conducted as per the academic calendar.

Placement Training , GATE coaching and other competitive exams were provided by subject experts in online mode. Periodic tests for the same were conducted through NGI Exam Portal.

The institute focused in effective teaching learning methodology in online mode

Extended Profile

1.Programme

1.1	383
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Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	View File

2.Student

2.1	986
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Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	221
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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	315
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Number of outgoing/ final year students during the year		
File Description	Documents	
Data Template	View File	
3.Academic		
3.1	125	
Number of full time teachers during the year		
File Description	Documents	
Data Template	View File	
3.2	125	
Number of sanctioned posts during the year		
File Description	Documents	
Data Template	View File	
4.Institution		
4.1	61	
Total number of Classrooms and Seminar halls		
4.2	639.21	
Total expenditure excluding salary during the year (INR in lakhs)		
4.3	620	
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, Management and IT. We are affiliated to A P J Abdul Kalam Technological University and follow the curriculum prescribed by the University upholding our

institutional goals and concern towards the students.

Time Table and Lecture Plan

All faculty members follow teaching schedule as per the time table. Our teaching faculty updates their knowledge by attending refresher courses, workshops, Faculty development programs, orientation programs conferences, seminars organized by various colleges under AICTE help them for the accomplishment of their subject delivery & curriculum more effectively.

Teaching Methodology

The subject teachers organize Industrial Visit, workshops, seminars, guest lectures, hands on training for enhancing their fundamental concepts and knowledge of the subjects.

Lesson plan includes course objectives, content topics, reference books and the expected duration from the students by learning through the topics is prepared by the faculty members at the beginning of each semester. Laboratory Manual is for all practical courses with additional experiments.

The excellence of Classroom teaching

Meetings held in department to discuss the distribution of courses for upcoming semesters at the end of the semester. Based on individual faculty members, the course is assigned to them by the HoD.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://ncerc.ac.in/downloads/agar-2021-2022/criterial/1.1.1.NCERC.pdf

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

The college is affiliated to A P J Abdul Kalam Technological University.

Academic calendar

The university provides the Academic Calender in the beginning of every Academic Year. The University academic time-table includes dates for following events:

- Commencement of teaching
- module completion.
- series tests
- practical exams
- university tests
- NSS/NCC/Sports/ Cultural and literacy programs.

Academic calendar is updated by Principal & HoD(s) . In the beginning of the academic session the students are apprised of academic

calendar and same is uploaded on college website and displayed on notice boards .

Continuous Internal Evaluation

Assignment-I and Assignment-II as per the academic calendar. The slots of the Series I, Series II Assignment-I, Assignment-II are mentioned in the academic calendar.

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

The internal examinations time table is displayed in the department before one week from the day of examinations.

After completion of the internal examination, the faculty evaluates the answer scripts within three working days from the day of completion of the respective subject examination and distribute to the students. Periodically conducts PTA meetings and discusses the result.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://ncerc.ac.in/downloads/agar-2021-2022/criterial/1.1.2NCERC.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. 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

B. Any 3 of the above

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

11

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)

21

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

764

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

We 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 by the university and it does include many of these aspects in the curriculum.

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

23

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

459

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

334

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

206

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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.2.1 Advanced and slow learners.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
986	125

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 icampuz, the ERP software. The departments maintain individual libraries and internet facility to access all the journal, e-journal, ematerial, e-books etc. Group Learning Method is adopted. Students are given the task to identify mini project in the prefinal 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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.3.1_Student_Centric_Methods.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

104

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

125

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

19

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

801

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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.5.1 Internal Assessment.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-2021-2022/criteria2/2.5.2 Internal Examination Related Grievances.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://ncerc.ac.in/downloads/agar-2021-2022/criteria2/2.6.1 PO, PSO, PEO, CO.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://ncerc.ac.in/downloads/agar-2021-2022/criteria2/2.6.1 PO, PSO, PEO, CO.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

245

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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/College-Annual-Report.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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.7.1 Students Satisfaction Survey.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)

12.8

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

2

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://www.aicte-india.org/sites/default/files/MODROB Aspirational Institutions.pdf

3.2 - Innovation Ecosystem

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

REPORT

ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED CLUB Programme of the Dept. of Industries & Commerce, Govt. of Kerala in 2016.

IEDC Activities

Three teams from NCERC got selected for funded projects from KSCSTE (Kerala Science Technology and Environment) with a total amount of Rs. 27,000/-.

Two teams from NCERC GOT SELECTED BY NewGen IEDC funding with an amount of Rs. 5 Lakhs (Rs. 2.5 Lakhs per team).

Team ABC Ventures secured First position in Lifeathon event organized by Christ College of Engineering, Irinjalakuda. The team obtained a fund of Rs. 15,000/- from Finastra for their idea to prototype development. The prototype is developed and submitted to Finastra.

Mr. Rajkumar G, Nodal Officer have participated in FDP on "Exploring entrepreneurship and Start-up opportunities" organized by sriventateshwaraa College of Engineering & Technology from 5th July 2021 to 9th July 2021.

Mr. Rajkumar G, Nodal Officer have received Kalpa Acharya Award (Best Researcher) Award.

Mr. Rajkumar G received Yuva Mentor as a Changemaker award on 20th November 2021 at International Submit Innovative Educators-Key of Future Education.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/iedc/

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

6

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://xlescience.org/index.php/NIJASET
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

72

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

38

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

NSS Unit 209 in association with NCC and all other staff members

of NCERC has donated mobile phones for the students of Govt. HSS Pampady who couldn't access online schooling on 02-08-2021

In association with the Kerala Academy of Skills Excellence, Thiruvilwamala Grama Panchayat and NSS Unit 209 arranged the facilities for registration of skilled labors through "Skill Registry " app on 12-08-2021.

As part of the Gandhi Jayanthi Celebration, NSS Unit 209 cleaned the Govt. HSS Pampady on 02-10-2021.

In connection with 'Azadikaamruthmahotsav' the volunteers of NSS Unit 209 cleaned the Pampady village on 02-10-2021.

AIDS Day orientation program was organized on 01-12-2021. The orientation session was given by Dr. Anisj Jojo Philip.

Banks of Nila Riverhas been cleaned by NSS Unit 209 on 29-12-2021.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/aqar-2021-2022/criteria3/3.3.3.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**

34

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**

156

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**

72

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

5

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://www.ncerc.ac.in/infrastructure

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 to 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/infrastructure

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

59

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/infrastructure
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)

67.47

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://www.ncerc.ac.in/facilities

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e- A. Any 4 or more of the above

books Databases Remote access toe-resources

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)**

10.06

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**

423

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://www.ncerc.ac.in/images/facilities/pre_data_structure_lab.jpg

4.3.2 - Number of Computers

541

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in A. ? 50MBPS

the Institution

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)**

67.47

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-

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/criteria/6/new/6.3.1NCERC-HR-manual.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

126

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

56

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

175

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

175

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

5.1.5 - The Institution has a transparent 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

A. All of the above

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

192

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

7

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 students' 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 cocurricular activities. They are given ample opportunity 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 helping students to improve their organizing capabilities, leadership qualities and communication skills. All extracurricular 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 from faculty. The students are encouraged to hold events as desired by student community so as to

nurture and encourage the artistic talents of the 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://www.ncerc.ac.in/downloads/aqar-2021-2022/criteria5/5.3.2.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

60

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 A. ? 5Lakhs (INR in Lakhs)

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The Vision and Mission of our institution is stated as follows

VISION

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

MISSION

NCERC is committed to transforming itself into a centre 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 spirituality, and to mould them into 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.

IMPLEMENTATION OF VISION & MISSION

The Vision and Mission give a clear and precise roadmap for the institution. It brings about a holistic and futuristic development in the field of education. The ultimate aim of the vision and mission is to transform students into future Leaders. Leaders with technical expertise and human empathy are developed to serve society. This privilege of assimilating such knowledge and training is aimed at developing society and the country. Thereby this Vision and Mission is a guiding force for the upcoming leaders in the institution.

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

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

Nehru College of Engineering and Research Centre (NCERC) has a broad objective of being an active agent of change by responding to the needs and challenges of the times. This is achieved basically through the process of education, training and research. NCERC materializes it's the vision by effectively carrying out the mission by constituting various academic as well as administrative bodies. These bodies are formed by ensuring participation from various stakeholders including academicians, industry experts, researchers, parents, alumni, faculty and students. A few committees constituted for streamlining the activities of NCERC are: Governing body, Academic Council, IQAC, Ethics committee, Finance committee, Exam Cell, Disciplinary and Anti-Ragging Committee & Grievance and Redressal Committee. The academic council approves new add-on courses and extracurricular activities and innovative teaching pedagogy and methodology to be embedded

with various programmes. IQAC initiates, plans and supervises the college's quality assurance and quality enhancement activities. The Grievance and Redressal Committee acts as an interface between the students and the management, provides opportunities for the students to develop their social and cultural life, and focuses on the individual's overall development.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria/6/new-jan-2022/6.1.2-NCERC.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 conduct 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. Sixteen start-up ventures have been in place in 2020-21 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 2022. The institution is making progress towards achieving autonomy through its consistent operation.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://ncerc.ac.in/organizational-chart
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/criteria/6/6.2.2NCERC-upload.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 has effective welfare measures for both 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 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, 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 are 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/criteria/6/new-jan-2022/6.3.1-NCERC-HR-POLICY.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

12

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

2

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

47

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/hr_policy/HR_POLICY.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/
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-2021-2022/criteria6/6.4.3.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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/6.5.1.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 a year. 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 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 nighttime special classes for underachieving kids, With regular input from the stakeholders, To determine the new procedures and suggest them for raising the standard, help improve 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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/6.5.2.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)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/College-Annual-Report.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.

Gender sensitization action plan : NCERC GEAP2021-23

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

A. 4 or All of the above

conservation measures Solar energy
 Biogas plant Wheeling to the Grid Sensor-
 based energy conservation Use of LED bulbs/
 power efficient equipment

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 non-recyclable 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: **A. Any 4 or All of the above**

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

File Description	Documents
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 **A. Any 4 or all of the above**

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

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 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

A. Any 4 or all of the above

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

Grocary 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

Malhru Bhasha Programs

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 day-night boarding & lodging held in different parts of the locality. Volunteers undertake many scheduled activities to do social service in adopted village during the camp.

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/agar-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

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 of the Practice

- To aid UBA project by understanding their development agenda and offer our institutional capacity and support relevant to national needs, especially for Pambady-Thiruvilwamala region.

The Context

Nehru College of Engineering and Research Centre 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 Required

- difficult to meet the Govt authorities (eg: Village officer, LSG officials) during the working hours
- couldn't synchronise with the schedules, and at times though light, this delayed the process.

Resources Required for the project may be listed as;

- grant per annumis not well sufficient
-

Best Practice2

Empowering Managerial skills of Student Community through Leadership Advantage Workshop

1. 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

- Accessibility:
- Attitude of heads of different colleges
- Time constraints
- Transportation facility for students

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

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, Management and IT. We are affiliated to A P J Abdul Kalam Technological University and follow the curriculum prescribed by the University upholding our institutional goals and concern towards the students.

Time Table and Lecture Plan

All faculty members follow teaching schedule as per the time table. Our teaching faculty updates their knowledge by attending refresher courses, workshops, Faculty development programs, orientation programs conferences, seminars organized by various colleges under AICTE help them for the accomplishment of their subject delivery & curriculum more effectively.

Teaching Methodology

The subject teachers organize Industrial Visit, workshops, seminars, guest lectures, hands on training for enhancing their fundamental concepts and knowledge of the subjects.

Lesson plan includes course objectives, content topics, reference books and the expected duration from the students by learning through the topics is prepared by the faculty members at the beginning of each semester. Laboratory Manual is for all practical courses with additional experiments.

The excellence of Classroom teaching

Meetings held in department to discuss the distribution of courses for upcoming semesters at the end of the semester. Based on individual faculty members, the course is assigned to them by the HoD.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://ncerc.ac.in/downloads/aqar-2021-2022/criterial/1.1.1.NCERC.pdf

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

The college is affiliated to A P J Abdul Kalam Technological University.

Academic calendar

The university provides the Academic Calender in the beginning of every Academic Year. The University academic time-table includes dates for following events:

- Commencement of teaching
- module completion.
- series tests
- practical exams
- university tests
- NSS/NCC/Sports/ Cultural and literacy programs.

Academic calendar is updated by Principal & HoD(s) . In the beginning of the academic session the students are apprised of academic

calendar and same is uploaded on college website and displayed on notice boards .

Continuous Internal Evaluation

Assignment-I and Assignment-II as per the academic calendar. The slots of the Series I, Series II Assignment-I, Assignment-II are mentioned in the academic calendar.

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

The internal examinations time table is displayed in the

department before one week from the day of examinations.

After completion of the internal examination, the faculty evaluates the answer scripts within three working days from the day of completion of the respective subject examination and distribute to the students. Periodically conducts PTA meetings and discusses the result.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://ncerc.ac.in/downloads/aqar-2021-2022/criterial/1.1.2NCERC.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. 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

B. Any 3 of the above

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

11

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)

21

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

764

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

We 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 by the university and it does include many of these aspects in the curriculum.

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

23

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

459

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

A. All of the above

**syllabus and its transaction at the institution from the following stakeholders
Students Teachers Employers Alumni**

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

334

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

206	
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	
<p>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.</p>	
File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.2.1 Advanced and slow learners.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
986	125

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 icampuz , the ERP software. The departments maintain individual libraries and internet facility to access all the journal, e-journal, ematerial, e-books etc. Group Learning Method is adopted . Students are given the task to identify mini project in the prefinal 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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.3.1_Student_Centric_Methods.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**

104

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**

125

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**

19

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

801

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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.5.1 Internal Assessment.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 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/aqar-2021-2022/criteria2/2.5.2 Internal Examination Related Grievances.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://ncerc.ac.in/downloads/agar-2021-2022/criteria2/2.6.1_PO,PSO,PEO,_CO.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 PO 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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.6.1_PO,PSO,PEO_CO.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

245

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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/College-Annual-Report.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://ncerc.ac.in/downloads/aqar-2021-2022/criteria2/2.7.1_Students_Satisfaction_Survey.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)

12.8

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**

2

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://www.aicte-india.org/sites/default/files/MODROB Aspirational Institutions.pdf

3.2 - Innovation Ecosystem

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

REPORT

ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED CLUB Programme of the Dept. of Industries & Commerce, Govt. of Kerala in 2016.

IEDC Activities

Three teams from NCERC got selected for funded projects from KSCSTE (Kerala Science Technology and Environment) with a total amount of Rs. 27,000/-.

Two teams from NCERC GOT SELECTED BY NewGen IEDC funding with an amount of Rs. 5 Lakhs (Rs. 2.5 Lakhs per team).

Team ABC Ventures secured First position in Lifeathon event organized by Christ College of Engineering, Irinjalakuda. The team obtained a fund of Rs. 15,000/- from Finastra for their idea to prototype development. The prototype is developed and submitted to Finastra.

Mr. Rajkumar G, Nodal Officer have participated in FDP on "Exploring entrepreneurship and Start-up opportunities" organized by sriventateshwaraa College of Engineering & Technology from 5th July 2021 to 9th July 2021.

Mr. Rajkumar G, Nodal Officer have received Kalpa Acharya Award

(Best Researcher) Award.

Mr. Rajkumar G received Yuva Mentor as a Changemaker award on 20th November 2021 at International Submit Innovative Educators-Key of Future Education.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/iedc/

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**

6

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://xlscience.org/index.php/NIJASET
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**

72

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**

38

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

NSS Unit 209 in association with NCC and all other staff members of NCERC has donated mobile phones for the students of Govt. HSS Pampady who couldn't access online schooling on 02-08-2021

In association with the Kerala Academy of Skills Excellence, Thiruvilwamala Grama Panchayat and NSS Unit 209 arranged the facilities for registration of skilled labors through "Skill Registry " app on 12-08-2021.

As part of the Gandhi Jayanthi Celebration, NSS Unit 209 cleaned the Govt. HSS Pampady on 02-10-2021.

In connection with 'Azadikaamruthmahotsav' the volunteers of NSS Unit 209 cleaned the Pampady village on 02-10-2021.

AIDS Day orientation program was organized on 01-12-2021. The orientation session was given by Dr. Anisj Jojo Philip.

Banks of Nila Riverhas been cleaned by NSS Unit 209 on 29-12-2021.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/aqar-2021-2022/criteria3/3.3.3.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

34

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

156

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

72

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

5

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.

Aryabhatta

'Aryabhatta' 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://www.ncerc.ac.in/infrastructure

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 to 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/infrastructure

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

59

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/infrastructure
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)

67.47

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://www.ncerc.ac.in/facilities

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)**

10.06

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**

423

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 update IT facilities in the next academic year budget.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/images/facilities/pre_data_structure_lab.jpg

4.3.2 - Number of Computers

541

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)

67.47

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-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/criteria6/new/6.3.1NCERC-HR-manual.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

126

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

56

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

175

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

175

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

5.1.5 - The Institution has a transparent 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

A. All of the above

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**

192

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

7

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 students' 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 cocurricular activities. They are given ample opportunity 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 helping students to improve their organizing capabilities, leadership qualities and communication skills. All extracurricular 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 from faculty. The students are encouraged to hold events as desired by student community so as to nurture and encourage the artistic talents of the 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://www.ncerc.ac.in/downloads/agar-2021-2022/criteria5/5.3.2.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

60

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

The Vision and Mission of our institution is stated as follows

VISION

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

MISSION

NCERC is committed to transforming itself into a centre 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 spirituality, and to mould them into 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.

IMPLEMENTATION OF VISION & MISSION

The Vision and Mission give a clear and precise roadmap for the institution. It brings about a holistic and futuristic development in the field of education. The ultimate aim of the vision and mission is to transform students into future Leaders. Leaders with technical expertise and human empathy are developed to serve society. This privilege of assimilating such knowledge and training is aimed at developing society and the country. Thereby this Vision and Mission is a guiding force for the upcoming leaders in the institution.

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

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

Nehru College of Engineering and Research Centre (NCERC) has a broad objective of being an active agent of change by responding to the needs and challenges of the times. This is achieved basically through the process of education, training and research. NCERC materializes it's the vision by effectively carrying out the mission by constituting various academic as well as administrative bodies. These bodies are formed by ensuring participation from various stakeholders including academicians, industry experts, researchers, parents, alumni, faculty and students. A few committees constituted for streamlining the activities of NCERC are: Governing body,

Academic Council, IQAC, Ethics committee, Finance committee, Exam Cell, Disciplinary and Anti-Ragging Committee & Grievance and Redressal Committee. The academic council approves new add-on courses and extracurricular activities and innovative teaching pedagogy and methodology to be embedded with various programmes. IQAC initiates, plans and supervises the college's quality assurance and quality enhancement activities. The Grievance and Redressal Committee acts as an interface between the students and the management, provides opportunities for the students to develop their social and cultural life, and focuses on the individual's overall development.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria6/new-jan-2022/6.1.2-NCERC.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 conduct 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. Sixteen start-up ventures have been in place in 2020-21 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 2022. The institution is making progress towards achieving autonomy through its consistent operation.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://ncerc.ac.in/organizational-chart
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/criteria6/6.2.2NCERC-upload.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 has effective welfare measures for both 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 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, 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 are 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/criteria6/new-jan-2022/6.3.1-NCERC-HR-POLICY.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

12

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

2

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

47

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/hr_policy/HR_POLICY.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/
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-2021-2022/criteria6/6.4.3.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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/6.5.1.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 a year. 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 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 nighttime special classes for underachieving kids, With regular input from the stakeholders, To determine the new procedures and suggest them for raising the standard, help improve 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://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/6.5.2.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)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://ncerc.ac.in/downloads/aqar-2021-2022/criteria6/College-Annual-Report.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.

Gender sensitization action plan : NCERC GEAP2021-23

File Description	Documents
Annual gender sensitization action plan	https://www.ncerc.ac.in/downloads/criteria7/1/7.1NCERC.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/criteria7/1/7.1NCERC-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 non-recyclable 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
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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 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	A. Any 4 or all of the above
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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

Grocary 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

Malhru Bhasha Programs

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 day-night boarding & lodging held in different parts of the locality. Volunteers undertake many scheduled activities to do social service in adopted village during the camp.

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/agar-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 Practice1

Playing the role of a Participating Institute for Unnat Bharat Abhiyan

Objectives of the Practice

- To aid UBA project by understanding their development agenda and offer our institutional capacity and support relevant to national needs, especially for Pambady-Thiruvilwamala region.

The Context

Nehru College of Engineering and Research Centre 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 Required

- difficult to meet the Govt authorities (eg: Village officer, LSG officials) during the working hours
- couldn't synchronise with the schedules, and at times though light, this delayed the process.

Resources Required for the project may be listed as;

- grant per annumis not well sufficient
-

Best Practice2

Empowering Managerial skills of Student Community through Leadership Advantage Workshop

1. 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

- Accessibility:
- Attitude of heads of different colleges
- Time constraints
- Transportation facility for students

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. 2022-23. with Activities/Projects/Events. Through participation of these programs, our student community would automatically involve into the Holistic tracks. The Activity Matrix is summerised

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 possess 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