



YEARLY STATUS REPORT - 2020-2021

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. Ambikadevi Amma T**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**

- Phone no./Alternate phone no. **04884284000**
- Mobile no **7510882777**
- 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://www.ncerc.ac.in/downloads/aqar/AQAR-2019-20.pdf>

4.Whether Academic Calendar prepared during the year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://ncerc.ac.in/downloads/criterial/1.1.1/1.1.2.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
Nehru College of Engineering and Research Centre	REFRESHER COURSE	AICTE - ISTE	2020 - 18 DAYS	279000

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)

Organized International conferences , international e- project and e-idea pitching competition

Organized AICTE ISTE Refresher Program on High Impact Teaching and Learning Skills

Participated in NIRF Ranking

ISO second surveillance

Submitted NBA SAR for the Department of Computer Science and Engineering , Department of Mechanical Engineering and Department of Mechatronics Engineering

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
Semester wise academic audit	Academic audit completed on October 21, 2020
Energy , Environment and Green Audit	Completed in February 2021
First year orientation programme	Completed in August 2021
MoU with industries	Executed in September 2021
Affiliating University APJ Abdul Kalam University External e-audit	Completed in February 2021
Participation in NIRF Ranking	Completed in February 2021
NAAC and NBA Accreditation works	NAAC SSR Submitted and NBA SAR Submitted

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

- Name of the statutory body

Name	Date of meeting(s)
Governing Council	01/03/2021

14. Whether institutional data submitted to AISHE

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14. Whether institutional data submitted to AISHE

Year	Date of Submission
2019-2020	16/03/2020

15. Multidisciplinary / interdisciplinary

Institution is offering courses and programs in compliance with affiliating university which are multi disciplinary /interdisciplinary

Minor in Engineering scheme will allow B.Tech students to earn a minor degree in a branch 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 schme) and open electives are offered in the seveth semester (2019 scheme) for all UG B.Tech programs and the following courses are offered in our Insitution in 2020-21 - Total Quality Management, Instrumentation Systems, Bio medical Engineering, Operations Research and Industrial Automation.

16.Academic bank of credits (ABC):

The scheme of academic bank of credits is applicable as per National Academic Depository (NAD).

17.Skill development:

Institution is focussing on skill development of the students through the following programs

1. ADD on courses - offered in all semester and attended by all students of UG B.Tech. The following are offered in 2020-21

Mobile Operating Systems,3D Animation, Digital Marketing,Phython Programming,Internet Technologies,Electro magnetic field theory,Deep Learning Techniques, Sensors and Actuators, Energy Production, Distribtution and Safety, Custom Power Devices, Industrial Energy Conservation and Audit,Basics of VLSi Design,Internet of Things , Web Technologies,Quality Assurance Methods in Non Destructive Testing , Quantitative Techniques in Mangerial Decisions and so on.

2. Skill development programs offered by the placement cell so as to improve the employability of the students by focussing on aptitude and technical skills as needed by the Industry .

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

The scheme of integration of Indian Knowledge system has not been introduced in the curriculum by the affiliating university.

Online courses (MOOC/NTPEL) are attended by students and successfully completed

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

The teaching Learning mechnanism adopted is strictly in compliance with NBA norms with focus on outcome based education.

Vision /Mission statements are made for the Institution and each department. All departments have formulated Program specific outcome .All offered courses have course objectives and mapping is done with Program Outcome and Program specific outcomes. The Course outcome and Program outcome 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 has not been introduced in the curriculum by the affiliating university. During the period of world wide lock down due to Covid pandemic, institution resorted to online education and all academic activities , cultural programs , cocurricular activities , evaluation, examination and meetings were made online to avoid loss of academic days.

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 through 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.

Internal Examinations were conducted as per the academic calendar for all semesters . Internal Examination referred as series test in the institute. Series test 1 was conducted covering first fifty percent of the syllabus. Series test 2 was conducted covering the remaining fifty percent of the syllabus.

Series test were conducted for fifty marks. Students answered twenty MCQ for twenty marks via online using Google Forms and NGI Exam Portal. Descriptive Questions for thirty marks were also answered by students via Google meet link. The question papers for descriptive test were uploaded in respective Google classrooms on the scheduled time. Students wrote the series test with their camera ON and the completed answers scripts were uploaded in Google classroom on the scheduled time.

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	450
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1	838
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	221
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		188
Number of outgoing/ final year students during the year		
File Description		Documents
Data Template	View File	
3.Academic		
3.1		149
Number of full time teachers during the year		
File Description		Documents
Data Template	View File	
3.2		149
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		372
Total expenditure excluding salary during the year (INR in lakhs)		
4.3		541
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 imparts excellence in education in Engineering, Management and Computer Applications. The institution is affiliated to A P J Abdul Kalam Technological University and it follows its curriculum.

Time Table and Lecture Plan Allocations of lectures of all the subjects are planned according to University rules and regulations. Faculty members follow teaching schedule as per the time table and update themselves by attending refresher courses, workshops, FDP's etc.

Teaching Methodology

The subject teachers organize regularly Industrial Visit, workshops, seminars, guest lectures etc. for enhancing knowledge of subjects. We organize study tours for concerned subjects, with management support.

The excellence of Classroom teaching with Course Plan Based on individual faculty members experiences, the course is assigned to them by HoD. The excellence of the classroom teaching depends on content delivery, interaction etc.

Curricular Gaps

Based on CO-PO mapping, stake holder suggestions and curriculum feedback committee we have identified the curricular gaps for each programme and forwarded a letter to APJ Abdul Kalam Technological University regarding the curricular gaps in each programme and requested the university to update its curriculum. Each department conduct several activities like webinars, add on courses, technical talks etc. to bridge the curricular gaps.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ncerc.ac.in/downloads/criteria/2/newupdate/new/1.1.1_AQAR_2020-2021.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. The university declare the Academic Calender in the beginning of every Academic Year. After the starting of semester, the college has to follow the Academic calendar. However, the college prepares its own calendar, which is done parallel to the university. The University academic time-table includes following factors:

- Commencement of teaching and dates for:
- Module completion.
- Series tests
- Practical exams
- University tests
- Extra-curricular activities, like NSS/NCC/Sports/Culturalprograms, etc.

Academic calendar .In the beginning of the academic session the students are appraised of academic calendar and same is uploaded in college website and displayed on notice boards and at strategic locations.

Continuous Internal Evaluation(CIE) The slots of the Series I, Series II, Assignment-I,Assignment-II and sessional exam are mentioned in the academic calendar. Examination schedule of these exams is announced and displayed in advance by the Principal. Assessment process: 1. Tutorial classes are conducted as per the course requirements. 2. Micro analysis is done for the attainment of program and course outcomes. 3. Industrial visits and Internships are arranged by the faculty members for students. End Semester Examinations Valuation of answer scripts and publication of results are liable to KTU.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ncerc.ac.in/downloads/criteria/2/newupdate/new/1.1.2_AQAR_2020-21.pdf

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating A. All of the above

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

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

14

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)

22

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

1195

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 provided by the university and it does include many of these aspects . Sustainability in business environment is also part of the curriculum. Also, significance of learning management by engineers is also emphasized. Human values and what are the necessary skills needed to survive in the fast developing world is also given importance in curriculum. As we become more prone to natural disasters due to climatic changes etc., in the present century, it becomes a necessity for the survival of mankind to understand disaster management, which has become a part of 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

195

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

195

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 **A. All of the above**

from the following stakeholders Students
Teachers Employers Alumni

File Description	Documents
URL for stakeholder feedback report	https://ncerc.ac.in/downloads/criterial/1.4.1/1.4.1 & 1.4.2.pdf
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://ncerc.ac.in/downloads/criterial/1.4.1/1.4.1 & 1.4.2.pdf

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

279

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

168

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

2.2 - Catering to Student Diversity

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

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

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria/2/newupdate/new/2.2.1 AQAR 2020-2021.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
838	149

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 underthe guidance of Entrepreneur Development Cell of the college.Industrial visits are also aranged.

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

File Description	Documents
Upload any additional information	View File
Link for additional information	https://www.ncerc.ac.in/downloads/criteria_2/newupdate/new/2.3.1_AOAR_2020-2021.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

131

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

149

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

15

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

606

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

2.5 - Evaluation Process and Reforms

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

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

File Description	Documents
Any additional information	View File
Link for additional information	https://www.ncerc.ac.in/downloads/criteria/2/newupdate/2.5.1.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://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.5.2 AOAR 2020-2021.pdf

2.6 - Student Performance and Learning Outcomes

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

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

ensure their alignment with the learning outcomes.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.6.1 AQAR 2020-2021.pdf
Upload COs for all Programmes (exemplars from Glossary)	View File

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

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

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.6.2 AQAR 2020-2021.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

165

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://www.ncerc.ac.in/downloads/NCERC%20Annual%20Report%202020-21.pdf

2.7 - Student Satisfaction Survey

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

<https://www.ncerc.ac.in/downloads/criteria2/newupdate/2.7.1.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)

2.79

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**

4

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**

1

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://fdp-si.aicte-india.org/

3.2 - Innovation Ecosystem

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

NCERC has created a platform "IEDC" where students can showcase their innovative ideas and seek all the support needed from the club. IEDC of NCERC has been registered with the Directorate of Industries & Commerce under Government of Kerala in 2016. ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED club programme of the Department of Industries & Commerce, Govt. of Kerala in 2016. We got sanction for starting TBI at NGI on 01st January 2019 from NSTEDP, Govt. of India. Innovation & Entrepreneur Development Cell (IEDC) initiated various activities for the career enhancement. IEDC Activities .1. A National Level Awareness Program is organised in Association with MHRD on 24/2/2020, Dr.N.Vinod, Assistant Director MSME gave

an excellent talk about the various schemes available for students from MSME.2. Professional Student Summit is attended by our students at CUSAT, Kochi on 15/2/2020. 3. A Webinar is organised by our IEDC during COVID on 9/05/2020. The topic of webinar is "Patent Document Preparation" Resource person was Mr. Rajkumar G, Assistant professor EEE. More than 100 registered and participated in the Webinar and obtained a good feedback. 4. A Start-up named Prove was started by our Students with funding from KSUM. 5. One FDP was organised in association with IEDC-NCERC on creativity, Innovation and New Product Development in association with EEE and CSE Department of NCERC for faculties Inside and Outside the campus. The faculty development program was on 29/06/2020 to 3/07/2020.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://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

7

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

3.3 - Research Publications and Awards

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

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

0

File Description	Documents
URL to the research page on HEI website	https://ncerc.ac.in/iedc/
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

42

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

35

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

3.4 - Extension Activities

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

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

The activities are; Fighting covid19 with innovative thinking ,Samanwaya, Public awareness programme ,NSS Activities during Covid-19 ,Short film - covid-19 .FIGHTING COVID19 WITH INNOVATIVE THINKING.Samanwaya: During Covid19 pandemic, some novel devices like sanitising tunnels and dispensing units were designed and developed by our college.Students of our college who are efficiently talented in creative works utilised their talents in creating public awareness regarding COVID 19 through social media.NSS unit of our college remained active during the Covid-19 pandemic. It provided 'Online Education Facility' to a group of students from Pazhayannur school and gave TV and Dish connection to K. Athira, daughter of Shivadas from Vadakketara, Killiyil house, who is a student of Pazhayannur Higher Secondary School. The NSS volunteers of unit 209, NCERC initiated the activity of embroidering face covering cloth-made masks, during this lockdown period as a step towards creating safer and better world free of Covid pandemic.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria3/new-jan-2022/3.4.1-AQAR-2020-2021.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

4

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

14

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

1063

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

73

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

15

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.

Academic Facilities

Nehru College of Engineering and Research Centre follows the norms laid down by AICTE and APJ Abdul Kalam Technological University for creating and enhancing the infrastructure facilities for effective teaching and learning. The Institute has sufficient classrooms (55-Nos), seminar-halls (6-Nos), various laboratories, library with ILMS, and 64 MBps internet facility including Wi-Fi. Total area of our institution is 26228 Sq. Mts. The Academic Blocks, Aryabhatta & Bhaskara consists of Lecture theatres, Tutorial rooms and separate cabins for each faculty. The magnificent KAPILA Block has computer laboratories, lectures

theaters, tutorial rooms, faculty cabins, office of the Director and the Board Room. This block has infrastructural facilities to cater to the academic activities of MBA and MCA.

Library

The college has a central independent library with plinth area 9000 sq.ft with all modern facilities. Library is open for use from 8.00 am. to 8:00 pm. (except on Sundays & Government holidays) . E-Learning Resources, like EBSCO and JGate are available in the Library. The entire library is fully automated by software called KOHA LIBRARY SOFTWARE. The NCERC library is well stacked with 28309 textbooks and 4576 reference books. The library owns its online resources like DELNET, Shodhganga & ShodhSindhu.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria/4/4.1.1NCERC-Infrastructure.pdf

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

NCERC encourages and provides facility for students to participate in various extra-curricular activities. Staff and students use the gymnasium under the guidance of professional trainers. Its state-of-the-art equipment includes bench press, peck deck, bicep curl, lateral pulley and body twister machines, treadmills and muscle building equipment. For all-round development of the students, there is fully equipped gym - fitness zone containing all modern equipment like dumb bells, Steering plates, Biceps Steering plates, skipping ropes. Other equipment include Hyper Extension, Fore Arm Extension, Leverage squat/calf raise machine, Bicep cart, fore Arm extension, Pull up stand, Bench press, Abs machine etc., Outdoor games -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. A huge football ground and cricket ground (10, 450 Sq ft.) exists in the institution. Cultural Activities-This committee along with staffs and students of the college organizes an annual cultural function named BLOOM. To broaden the horizons of the students, they are

encouraged to participate several inter-colligate events. Annual day is also celebrated.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria4/4.1.2NCERC-Facilities-for-cultural-sports&games-big.pdf

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

61

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria4/4.1.3NCERC-Geo-Tagged-Photographs-of-Classrooms.pdf
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

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

44.37

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)

Library

The central library with all its facilities has become a centre for acquiring knowledge developing skills and getting exposure to newer fields of study and research, in addition to being "connected" to the outside World through the Internet. The college has a central independent library with plinth area 9000 sq.ft with all modern facilities.

Access to the library is managed by using ID card. Library is open for use from 8.00 am to 8:00pm. (except on Sundays & Government holidays) .The entire library is fully automated by software called KOHA LIBRARY SOFTWARE. The NCERC library is well stacked with 28309 textbooks and 4576 reference books . The library also owns its digital set up with 64Mbps speed to access e-journals, e-books and other online resources like DELNET, Shodhganga & ShodhSindhu. . To inspire the significance among the students concerning current affairs and general knowledge, study materials related to GATE and competitive examinations is available in the college library. DELNET is very helpful to access rare books from various institutions libraries. Manuscripts from various departments are available in our library for student reference.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://ncerc.ac.in/downloads/criteria4/4.2.1.pdf

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

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

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

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

7.93

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

290

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

Our institution has seven computer laboratories & 620 computers connected through LAN or Wi-Fi connection with more than 64Mbps internet speed to share & access knowledge resources like NPTEL, MIT resources, YouTube etc. The computers has various operating systems like windows-XP, windows-7 and Ubuntu. Computers have

various software packages like Mat lab, Xilinx, AutoCAD, Python Turbo-C, Java, labVIEW etc., which are necessary for teaching and learning.

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 configuration of Intel Core2Duo/2.40GHZ/1GB RAM/160 GB SATA HDD/ Intel Onboard E'Net.

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, smart boards etc., are updated frequently.

IT facilities supports project development , research and publications, startups, innovations , co-curricular activities of the student and faculty members. icampuz is the ERP software of the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ncerc.ac.in/downloads/criteria4/4.3.1.pdf

4.3.2 - Number of Computers

610

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)

371.89

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, each department submits budget proposal to Principal. The proposal includes request for purchase of equipment / devices / instrument / computer systems / software / consumables and maintenance of those. This will be discussed in the HOD's meeting and the management will sanction the budget to every department during the beginning of academic year.

Once the tenders are submitted by different agencies, the management selects good quality products at reasonable rate.

For the maintenance of these facilities, housekeepers are allotted for the maintenance of buildings, classrooms, laboratories, washrooms and furniture.

Our college has a dedicated Campus Maintenance Office for the maintenance of buildings, classrooms and laboratories. A maintenance register is being kept in the. All complaints and recommendations are being checked and processed by the Officer with the approval of the Principal.

Calibration

1. A master list of inspection, measuring and test equipment under calibration is identified in each department.
2. Each equipment is identified with a unique number.

3. Calibration frequency is identified for each department.
4. Calibration is done as per the plan prepared and kept in the department.
5. A calibration schedule is prepared and equipment are removed from the workplace before it is due.
6. Calibration details are displayed on the equipment where possible.
7. The certificates received from the external calibration agencies are verified and authorized.
8. The error notifications if any observed are entered in the calibration register in the department.
9. Where internal calibration is done master equipment which is calibrated externally is selected for calibration.
10. Measuring instruments are calibrated after breakdown.

DUTIES & RESPONSIBILITIES

System Administrator

- Maintaining complaint/Service/Maintenance register for department users. Preparing & maintaining IT purchase request.
- Maintaining files such as purchase request file, Service request letters file for printer service & toner refilling, Systems working status weekly consolidated reports file, purchase invoice/bills file, software license copy file, time table file, service report file etc.
- Maintain for LAN and WAN connectivity. Morning checks of systems/software
- Monitor system performance and provide security measures, troubleshooting and maintenance. Assist users to diagnose and solve their problems.
- Design and implement systems, network configurations, and network architecture, including hardware and software technology, site locations, and integration of technologies.
- Maintain the peripherals, such as printers, that are connected to the network. Train users in use of equipment.
- Ensure virus protection software on servers and workstations.

Laboratory Assistants

- The systems/equipment should be serially numbered indicating the short title of Nehru Group, Institute, Department and Lab.
- All the systems / equipment / instruments should be kept in working condition and should be cleaned on a daily basis.
- The configuration of systems should be checked daily.
- Maintenance and upkeep of systems with the help of system administrators.
- The system should be kept in 'shut down mode' after use by each batch of students.
- The warranty period of each system / equipment / instruments should be promptly monitored.
- Breakage or defect of any items has to be reported to the HOD / vendors in time.
- Theft / breakage by students have to be recorded in the breakage register on a daily basis and the register got counter signed by HOD/Principal the very next day itself.
- The UPS and battery maintenance has to be checked at least once in a week.
- A monthly consolidated status report for each lab should be forwarded to the Principal and a copy to the CEO / Secretary

Site Engineer

- Maintaining and administering the entire civil construction works, planning, designing, checking the quality and quantity of the materials used and workmanship, coordinating with Architects, Engineers, Consultants and Contractors with respect to all the works.
- Look after and coordinate the entire civil, electrical, other repair and maintenance works in the campuses.
- Maintaining high quality of works, approving the estimate and bills with the consent of Management.
- Maintaining all the registers required for related to the construction for the use of Architect and College. Besides, providing the daily returns in a prescribed format, already designed for your use. The stock registers related to

cement, steel are subject to surprise checks by the Architect or by the Management or by representative of the Management. The daily return should reflect the stocks.

- Maintaining the quality of the works executed by the approved contractors. Ensuring raw materials quality.
- Preparing the plan and estimate whenever required.
- Required to verify "M" Book maintained by the contractor for its correctness. The "M" Book entries will be subjected to a random checks by the Architect, or the by the Management or by the representative of the Management.
- Required to ensure "bills" submitted by the contractors for its correctness regarding the quantity and rates.
- Enforcing stocking of raw materials in places fully secured, where the students experience the least disturbances.

DUTIES AND RESPONSIBILITIES OF MAINTENANCE DEPARTMENT

Responsibilities

- Perform cleaning activities such as dusting, mopping etc.
- Perform minor fixes such as repairing broken locks, filling gaps on walls etc. Check control panels and electrical wiring to identify issues
- Install appliances and equipment
- Conduct maintenance tasks such as replacing light bulbs
- Inspect and troubleshoot equipment and systems (e.g. ventilation) Check functionality of safety systems (e.g. fire alarm)
- Report to a facilities or maintenance manager for issues

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ncerc.ac.in/downloads/criteria4/4.4.2.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

65

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

531

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	https://www.ncerc.ac.in/downloads/criteria/5/newupdate/5.1.3.pdf
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

837

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

837

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

135

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

35

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

6

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/criteria/5/newupdate/5.3.2_AQAR_2020-21.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

184

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://www.ncerc.ac.in/downloads/criteria/5/newupdate/5.4.1.pdf
Upload any additional information	View File

5.4.2 - Alumni contribution during the year D. 1 Lakhs - 3Lakhs
(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

VISION

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

MISSION

NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them in to technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

Application of Vision and Mission

The Vision and Mission gives 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 the society . This privilege of assimilating such knowledge and training is aimed at developing the 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.

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

- IQAC
- Disciplinary and Anti-Ragging Committee
- Grievance and Redressal Committee
- Examination Committee
- NSS Committee
- NCC Committee

All the above committees are headed by a senior faculty and its members are a team of faculties and students. Each committee conducts different meetings to solve different issues and to come out with initiatives to enhance the working of the committee towards development of the college. Guidelines of affiliated universities are given utmost importance while deciding the activities of these committees. All decisions made by the

different committees are recorded and approved by the principal.

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 eligible programs have applied for Accreditation by the National Board of Accreditation(NBA) in 2020 and awaiting the peer team visit. The institution has been reaccredited by National Assessment and Accreditation Council and has been awarded A grade with a score of 3.18/4. Institution has entered in MoU with several companies for reaffirming industry Institution Interaction. Fourteen start up ventures have been in place in 2020-21 and is constantly nurtured by the effective mentoring by the Institution. Institution has successfully conducted FDP, international conferences, webinars and workshops. Institution has participated in the NIRF ranking 2021. Institution through its steady functioning is in the forward march towards accomplishing autonomous status

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.

Institution's Vision and Mission provide the direction and goals for all programs. A definite system is in place with clear scalar chain for proper running of the institution. Nehru College of

Engineering and Research Centre(Promoted by Nehru College of Educational and Charitable Trust) has a well-defined Organizational Structure that outlines how certain activities are directed in order to achieve the goals of an organization. The Board of Trustees includes Chairman & Managing Trustee, CEO & Secretary and the Trustee which leads the Institution. The Academic activities including various departments, Library, Hostel Placement Cell, Store, Physical Education, Student Counselor, Exam Coordinator are mainly administered by the Principal. The HoD assisted by the Professors/Associate Professors/Assistant Professors/Workshop and Laboratory In charges coordinate the academic activities. The Principal of the Institution has the overall charge of the Administrative Department, Establishment department and Finance Department. The annual academic calendar and annual program budgets are prepared and approved by the Principal and Chairman of the Nehru Group of Institution. Audit of Department activities and department resources are done and approved by Head of Department, Principal, Resource Head and Chairman. Performance appraisals, Faculty feedback, student's feedback, parent's feedback, different complaints are analyzed and reports are prepared .

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

The teaching and nonteaching staffs are equally important for the running of an education institution. The Following welfare schemes are available .

List of Welfare measures -For teaching staff -PK DAS Hospital Privilege Card, Health Policy Scheme, Chikitsa All employees who has been working for more than 1year are provided with this scheme of Rs.50,000,Accident insurance scheme for teaching staff, insured by Universal Sompo General Insurance Company, Coimbatore, Financial support to faculty members for publishing research paper in international, national journals, rupees 5000/and 1500/ respectively. Financial supports to faculty members for publishing books under reputed publishers, Rs 5000/for individual author 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, Chikitsa All employees who has been working for more than 1 year are provided with this scheme of Rs.50,000, Accident insurance scheme for teaching staff, insured by Universal Sompo General Insurance Company, Coimbatore. 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

34

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

10

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

165

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 appraisal is carried out at predetermined intervals and is documented.
- Appraisal shall be done for all employees including staff, contract employees, interns, and students, trainees if they

are involved in the care providing or supporting activities in the institutions functions.

- Performance appraisal is evaluated based on the expected performance described in the job descriptions.
- Self appraisal reports shall be sought from the following staff. Supervisory cadres and above(Qualified with the capacity to understand the purpose and to fill the format)
- Staff members are eligible to increments prescribed at the end of 12 months in service in the institution. The increments will be in effect at the beginning of every academic year, ie. June.
- Additional increments shall be given to staff members based on their contributions and results achieved at the discretion of the Management.
- Annual staff performance appraisal systems consists of Students feedback, Appraisal by Head of the Department, appraisal by Head of the Institution

All the staff members are required to submit their self evaluation report at the end of every academic year in the prescribed format. The Head of the Department, Principal, HR Head and Administrator will discuss results of the appraisal with each employee.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.3.5-NCERC.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

In every financial year the college will conduct an internal audit through departmental staff as well as external audit by the statutory auditors.

Internal Audit

The internal financial accounting would be completed before 10th of every month considering all the previous month transactions.

After completion of the monthly accounts the same accounts would be audited by the internal auditors appointed by the management. The account books are prepared by a team of accountants and headed the finance manager. While verifying entries, if any mistakes/short comings identified/noticed the same could be rectified in the same month by the concerned departments.

External Audit

The external statutory auditors shall visit the college office twice in a year for audit and submit the final audit report. The external auditors consist of a team of chartered accountants from an external organization. They will check each expense against the bills provided and make sure that they are original. After completion of the auditing, the final statutory audit report shall be submitted to the Governing body for approval in the month of August every year. After approval, the financial accounts, documents could be used for all statutory purposes.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.4.1-NCERC.pdf
Upload any additional information	View File

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

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

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
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 primary source of fund is generated by the institution through fees collected from students towards tuition fees. This is in accordance with the rules and regulations of the education department state government, central government and the affiliated university. This fee amount is primarily used for the development of students, organizing seminars, field trips, organizing workshops, faculty remuneration and completion of the courses. They are primarily used to organize the event, purchase resources for the event and to cover all expenses of the event. Fund is also accrued in the form of internal revenue such as interests from bank deposits.

As a part of Outcome Based Education system, this institution has given utmost importance for the generation and utilization of funds to meet the objectives of the institution.

1. Adequate funds are allocated for effective teaching-learning practices that include conduct of FDPs, orientation programs, workshops, inter-disciplinary activities, training programs that ensure quality education.

2. The budget will be utilized to meet day-to-day operational and administrative expenses and maintenance of the fixed assets.

3. Adequate funds are utilized for development and maintenance of very good infrastructure for the institute, library and social service activities.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.4.3-Balance-Sheet.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

The IQAC of the college was established in April 2014 for enhancing the quality improvements in the academic process, pre-accreditation and post-accreditation exercise. The IQAC cell is

coordinated by a team of faculty members from all the departments under the strict supervision of principal.

The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices.

From devising strategies to improve the teaching-learning process through increased use of ICT, expansion of 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 been a proactive player in the overall benchmarking process.

The IQAC has regularly convened meetings; it has submitted the AQARs to NAAC in a timely manner; it has collected feedback in appropriate forms from different stakeholder categories, analyzed the same and used it for qualitative improvement; it has organized Academic and Administrative Audit and has initiated follow-up action as per the suggestions and recommendations of the eminent evaluators.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.5.3 IQAC meeting minutes 2020-21.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

IQAC contribution towards teaching learning process

- Monitoring of course files, lecture schedules, course plans by random sampling
- Verification of internal series test analysis, question paper setting based on Blooms Taxonomy
- Arrangement of special classes for weak students during

evening hours.

- Regular feedback from the stakeholders (Students, alumni, industry experts, research organizations and parents)
- Identifying the new processes and recommending the same for improving the quality.

IQAC conducts internal academic audit twice in year for all Departments. The feedback and suggestions given during the Academic audit are incorporated to prepare Action plan for subsequent year. The Academic Auditing system comprises of two bodies; the Internal Audit Cell at the Institution level and the External Auditor at the University Level.

The internal academic audit is carried out in department concerned with the objectives of monitoring course files, lecture Schedules, course plans by random sampling, Verification of internal series test analysis, question paper setting based on Blooms Taxonomy, Arrangement of special classes for weak students during evening hours, Regular feedback from the stakeholders, To identify the new processes and recommending the same for improving the quality, To evaluate the performance of individual faculty members and the department and to strengthen the monitoring /counseling system in the department etc.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria6/new/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://www.ncerc.ac.in/downloads/NCERC Annual Report 2020-21.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

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 responsibilities, commitments, skills and efforts achieved by women and will develop reasoned ideas of their role in society.

Workshops on gender equality

File Description	Documents
Annual gender sensitization action plan	https://ncerc.ac.in/downloads/criteria7/1/7.1NCERC-GEAP.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://ncerc.ac.in/downloads/criteria7/1/7.1NCERC.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.

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. The treated water from the plants are used for gardening and plantations, while the semi-solid waste is used as a manure for rubber plantations in the campus.

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 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 energy initiatives are confirmed through the following
1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage 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. We feel extremely proud to host events which aim at contributing and bringing a positive change in the society. The institute believes that such events and causes provide student a healthy education. To sensitize the students to social issues and holistic development in the neighborhood communities following activities were initiated by NCERC,

Social Extension Activity

Charity Program

Health care activities

House for Poor

Staff Club Study kit for poor

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

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

Nehru College of Engg and Research Centre sets high priorities for values, rights and constitutional obligations with an ultimate aim of edging the student community as responsible citizens; as envisioned in our NGI motto- Molding True 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

Excise department programs

Anti drug Campaign

Legal Awareness Program

Career Guidance program for School students

Samanwaya - Anti Covid projects

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://ncerc.ac.in/downloads/criteria7/9/7.1.9NCERC.pdf
Any other relevant information	https://ncerc.ac.in/downloads/criteria7/9/7.1.9NCERC-A.pdf

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, A. All of the above

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

Childrens Day

International Yoga Day

Independence Day

Republic Day

Abdulkalam day

P N Panicker week

Teachers day

National Youth Day

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 PRACTICE 1

Title of the Practice :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.
- To engage our Students through field work, stake-holder interactions and design societal objectives so as elevate their talents & higher education for development of rural India.
- To utilize our academic excellence in the field of science, engineering, technology and management, for providing support for rural India through Local self-Government and regional agencies .

The Context: . Nehru College of Engineering and Research Centre is

the Partnership Institute of UBA in our region. Through PIs, Unnat Bharat Abhiyan envisions of carrying transformational change in rural development processes by influencing knowledge institutions to help build the architecture of an Inclusive India.

The Practice :Being a Participating Institution (PI) we devised a UBA Cell which will be responsible for carrying out these activities. The Cell then developed an active working group consisting of motivated faculty members drawn from various departments, and segregated the works according to their respective domains, areas of specialization, expertise and interest.

As a PI-UBA, we were responsible for adopting villages in our region, and to interact with the villagers and unswervingly work on the field. For this, our UBA cell developed linkage with selective rural clusters, involving in their planning process and promoting the necessary technology interventions so as to improvise and expedite the developmental efforts in those clusters. The major activities of NCERC-UBA Cell are summarized below,

- Adopted FIVE villages: Kaniyarkode, Kuthampully, Pampady, Puthirithara & Thiruvilwamala, in consultation with the District Collector and Grama Panchayath for the development activities under the UBA.
- Executed our field studies, to learn the implementation of the Government schemes, and facilitate their better implementation so that they meet their objectives best.
- Engaged interested faculties, students, NSS and other bodies for these community development activities.

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, and initiated requisite modifications and other facilitating measures. The major activities of NCERC-UBA Cell are summarized below,

- Completed Village survey: Completed As the first phase, Village surveys for the 5 adopted villages successfully with the help of village officers.
- Completed Household survey: The second phase was more elaborate and tedious, where we performed Household surveys. Our team visited the houses of all the 5 adopted villages through our students and faculty members and had a direct

interaction with villagers.

- Completed Problem Identification: Through brainstorming sessions with various Stakeholders & Gramsabhas, we drafted out the major issues to be addressed through UBA project. The Identified problems in the adopted villages were prioritized, with the help of Gram Panchayat Officers and then we submitted the Plan of Action successfully.
- Ongoing Gram Panchayat Development Plan

Problems Encountered and Resources Required: Some Problem encountered during the practice are listed below, but none of them have affected our enthusiasm in executing the project.

- It is very difficult to meet the Govt authorities (eg: Village officer, LSG officials) during the working hours
- Due to official engagements of various officials, we couldn't synchronise with the schedules, and at times though light, this delayed the process.
- At times completing a single task took enormous time for the students community, as we lacked the domain experience.

BEST PRACTICE 2

Title of the Practice : Empowering Managerial skills of Student Community through Leadership Advantage Workshop

Objectives of the Practice

- To develop students as young Leaders who possess a deep sense of self-awareness
- To create an environment to connect and engage with others in meaningful ways.
- Make them able to create possibilities from their circumstances, rather than being limited by them."
- To make the participant define hi/her very individual purpose as a leader.

The Context : The Leadership Advantage Workshop was an in-depth journey to personal mastery as a leader, designed to foster the participants as emerging leaders and high potential people. Students from 24 colleges joined for the program, and our B-School (Nehru School Management). The competition included various interesting and informative rounds, including memory game, creative game, physical games, Communication games, puzzles and quizzes. The whole event was actively handled by our MBA Professors.

The Practice: The Workshop follows the patterns of Experiential Learning and evaluation. During the events student may experience success, failure, adventure, risk taking and uncertainty. The outcomes of their experience cannot totally be predicted. Workshop focuses on the factors that, chosen experiences are supported by critical analysis and synthesis developed by the participating teams.

During evaluation tracks, Experiences gained by the participant are to be structured for the student to take initiative, make decisions and be accountable for results.

Evidence of Success

- **Puzzles/Quizzes:** Leadership workshop facilitated the development of specific managerial skills and empowered our participants to become more resilient to change.
- **Physical Games:** Enabled the teams to react, work together and keep up their competitive edge, so as to respond with a collective responsibility attitude.
- **Communication game:** Delivered the importance of equilibrium; to catalyze growth and turnover, while at the same time maintaining a healthy and happy work environment.
- **Team games:** Empowered the student leaders to create trust, and mutual support in their units, making it easier to move faster and be more competitive, always one step ahead
- **Presentations:** Taught them a set of Innovative leadership talents to remain competitive and elevate as leaders with the right skills to face the situations of instability.
- **Coaching:** Imparted Experiential Leadership coaching as the way to get lead skills, and insisted the importance of its necessity for a futuristic professional life.

Problems Encountered and Resources Required

- **Accessibility:** Our College is located in a rural area, many participant colleges were also in remote locations, hence the timely transportation was a problem.
- **Attitude of heads of different colleges:** The heads of different colleges were conventional and traditional and initially not ready to accept this mode of learning
- **Time constraints:** For our Faculty trainers, Managing their regular classes and the workshop sessions simultaneously was difficult. Moreover the workshop was a 1 day thing, which was not sufficient because the time required for teams to reach college itself was time consuming.

- **Limited Funding:** Though we were funded by the management, the program could have made more better with extra funds.

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

NCERC's Holistic Model 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.

Equally important is to experience transcendence and be existent to the activities in the society and its culture. Nehru Group visualizes, Holistic Education system would boost the morale of a student to achieve greater heights in their careers, lead a quality life and grow up to be good citizens of 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.

- **IIC:** Our college is proud to be a MHRD MIC HEI, dedicated to promote innovation through multitudinous modes aiming to create an innovation eco-system in the campus.

- IEDC: works closely with the University's Entrepreneurship Development Cell and State Government organizations to promote entrepreneurship.
- Karma Management Meet: The National Level Management Fest of NCERC's School of Management is being conducted since last 12 years.
- NAPPiER: Nehru APPLication for IT Enabled Rendering, is an online application focusing our Learning Management routines during Covid lockdown.
- NeCTAR: rated as the first of its kind e-Conference being hosted by an Engg.College of Kerala state. NeCTAR2020: is a virtual conference.. an online event that included a series of large sessions run by thought leaders in the industry who presented to and interacted with attendees, replicating a traditional conference in a cyber-environment.
- StartUp ecosystem: Encouraging the Students to be a Job Creator and Not Job seeker, Currently Ten New Start-up Companies are being incubated at Nehru Group-NewGen IEDC, Coimbatore.
- Technology Business Incubator: NGI-TBI aims to guide and encourage all the innovative ideas, whether for a product, service, equipment, novel application, business model and technique or tool in the domain of Healthcare and Internet of Things.
- NSite: We conduct an all Kerala SciTech Expo every year, exclusively for students of High School, Degree and Diploma levels across Kerala.
- NCC: NCC cadets of Nehru College, Pampady under 23 Kerala Battalion, Thrissur conducted various social awareness programs such as Unity Run, Cycle Rally, Blood Donation Camp, and Tree Plantation in the outskirts of the institution.

- **Bloom:** South India's one of the largest cultural extravaganza. The two-day event is staged on a dome like structure resembling Film Award nights, featuring dance, dramatics, film, photography, music, debating, creative writing and more.
- **Samanwaya:** This was a showcasing event for our recent inventions. Our College was on the frontline in the war against Covid19 and our team of Students and Staff came out with some novel ideas/devices which would be of high help to the general public.
- **Thirike :** NEST (Nehru Ex Studens forum) initiates Thirike an Alumni meet every year, to remember the good olden days. It creates a great opportunity for the old batch mates to interact and refresh their memories.
- **HeliFly:** Nehru Group of Institutions, initiated a Helicopter carnival, through which it made a forum for the general public to have an Arial view of Vilwadri hills and the holy river Nila.
- **NSS:** Our NSS unit is ever dedicated in all its activities and was honored as the best in state of Kerala. Whether it is celebration of commemorative days, service for society or fight against communal problems.
- **Padham Onnu Oru Kai Sahayam:**A charity program for poor school students. This program was initiated by our staff club associating with ClubFM radio.
- **PKDas Dream Home:** In fond memory of our founder Late Sri. PK Das, a well-known philanthropist, DREAM HOME is a project which helps the underprivileged sector of people to build their houses.
- **CSR activities:** Our College considers it a high priority thing, to support the society. NGI is actively involved in

community development as a part of its social responsibility.

- **Nehru Vigyan scholarships:** Nehru Vigyan is Scholarship initiative of Nehru Group. Students with high merit are provided with financial support to complete their education under our institutions.

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 imparts excellence in education in Engineering, Management and Computer Applications. The institution is affiliated to A P J Abdul Kalam Technological University and it follows its curriculum.

Time Table and Lecture Plan Allocations of lectures of all the subjects are planned according to University rules and regulations. Faculty members follow teaching schedule as per the time table and update themselves by attending refresher courses, workshops, FDP's etc.

Teaching Methodology

The subject teachers organize regularly Industrial Visit, workshops, seminars, guest lectures etc. for enhancing knowledge of subjects. We organize study tours for concerned subjects, with management support.

The excellence of Classroom teaching with Course Plan Based on individual faculty members experiences, the course is assigned to them by HoD. The excellence of the classroom teaching depends on content delivery, interaction etc.

Curricular Gaps

Based on CO-PO mapping, stake holder suggestions and curriculum feedback committee we have identified the curricular gaps for each programme and forwarded a letter to APJ Abdul Kalam Technological University regarding the curricular gaps in each programme and requested the university to update its curriculum. Each department conduct several activities like webinars, add on courses, technical talks etc. to bridge the curricular gaps.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/1.1.1_AQAR_2020-2021.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. The university declare the Academic Calender in the beginning of every Academic Year. After the starting of semester, the college has to follow the Academic calendar. However, the college prepares its own calendar, which is done parallel to the university. The University academic time-table includes following factors:

- Commencement of teaching and dates for:
- Module completion.
- Series tests
- Practical exams
- University tests
- Extra-curricular activities, like NSS/NCC/Sports/Culturalprograms, etc.

Academic calendar .In the beginning of the academic session the students are appraised of academic calendar and same is uploaded in college website and displayed on notice boards and at strategic locations.

Continuous Internal Evaluation(CIE) The slots of the Series I, Series II, Assignment-I,Assignment-II and sessional exam are mentioned in the academic calendar. Examination schedule of these exams is announced and displayed in advance by the Principal. Assessment process: 1. Tutorial classes are conducted as per the course requirements. 2. Micro analysis is done for the attainment of program and course outcomes. 3. Industrial visits and Internships are arranged by the faculty members for students. End Semester Examinations Valuation of answer scripts and publication of results are liable to KTU.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/1.1.2_AOAR_2020-21.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

A. All 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

14

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)**

22

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

1195

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 provided by the university and it does include many of these aspects . Sustainability in business environment is also part of the curriculum. Also, significance of learning management by engineers is also emphasized. Human values and what are the necessary skills needed to survive in the fast developing world is also given importance in curriculum. As we become more prone to natural disasters due to climatic changes etc., in the present century, it becomes a necessity for the survival of mankind to understand disaster management, which has become a

part of 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

195

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

195

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
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File Description	Documents
URL for stakeholder feedback report	https://ncerc.ac.in/downloads/criterial/1.4.1/1.4.1 & 1.4.2.pdf
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
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File Description	Documents
Upload any additional information	View File
URL for feedback report	https://ncerc.ac.in/downloads/criterial/1.4.1/1.4.1 & 1.4.2.pdf

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

279

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**

168

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

2.2 - Catering to Student Diversity

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

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

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.2.1_AQAR_2020-2021.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
838	149

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 problemsolving methodologies: Seminars ,Comprehensive exams ,Group Discussion, Brainstorming sessions, Case studies and activities under professional bodies are organized. Community surveys are done as part of extension

and outreach programmes to facilitate the participation of students in social activities and to make them conscious of their social commitment

File Description	Documents
Upload any additional information	View File
Link for additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.3.1_AQAR_2020-2021.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

131

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

149

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

15

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

606

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

2.5 - Evaluation Process and Reforms

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

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

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

File Description	Documents
Any additional information	View File
Link for additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/2.5.1.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://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.5.2_AQAR_2020-2021.pdf

2.6 - Student Performance and Learning Outcomes

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

The institute is affiliated to APJ Abdul Kalam Technological University, Kerala. The Program Outcomes (PO's), Program Specific Outcomes (PSO's) are framed by the respective

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

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.6.1_AQAR_2020-2021.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://www.ncerc.ac.in/downloads/criteria2/newupdate/new/2.6.2 AQAR 2020-2021.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

165

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://www.ncerc.ac.in/downloads/NCERC%20Annual%20Report%202020-21.pdf

2.7 - Student Satisfaction Survey

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

<https://www.ncerc.ac.in/downloads/criteria2/newupdate/2.7.1.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)**

2.79

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**

4

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**

1

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://fdp-si.aicte-india.org/

3.2 - Innovation Ecosystem

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

NCERC has created a platform "IEDC" where students can showcase their innovative ideas and seek all the support needed from the club. IEDC of NCERC has been registered with the Directorate of Industries & Commerce under Government of Kerala in 2016. ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED club programme of the Department of Industries & Commerce, Govt. of Kerala in 2016. We got sanction for starting TBI at NGI on 01st January 2019 from NSTEDP, Govt. of India. Innovation & Entrepreneur Development Cell (IEDC) initiated various activities for the career enhancement. IEDC Activities .1. A National Level Awareness Program is organised in Association with MHRD on 24/2/2020, Dr.N.Vinod, Assistant Director MSME gave an excellent talk about the various schemes available for students from MSME. 2. Professional Student Summit is attended by our students at CUSAT, Kochi on 15/2/2020. 3. A Webinar is organised by our IEDC during COVID on 9/05/2020. The topic of webinar is "Patent Document Preparation" Resource person was Mr. Rajkumar G, Assistant professor EEE. More than 100 registered and participated in the Webinar and obtained a good feedback. 4. A Start-up named Prove was started by our Students with funding from KSUM. 5. One FDP was organised in association with IEDC-NCERC on creativity, Innovation and New Product Development in association with EEE and CSE Department of NCERC for faculties Inside and Outside the campus. The faculty development program was on 29/06/2020 to 3/07/2020.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://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

7

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

3.3 - Research Publications and Awards

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

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

0

File Description	Documents
URL to the research page on HEI website	https://ncerc.ac.in/iedc/
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

42

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

35

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

3.4 - Extension Activities

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

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

The activities are; Fighting covid19 with innovative thinking ,Samanwaya,Public awareness programme ,NSS Activities during Covid-19 ,Short film - covid-19 .FIGHTING COVID19 WITH INNOVATIVE THINKING.Samanwaya: During Covid19 pandemic, some novel devices like sanitising tunnels and dispensing units were designed and developed by our college.Students of our college who are efficiently talented in creative works utilised their talents in creating public awareness regarding COVID 19 through social media.NSS unit of our college remained active during the Covid-19 pandemic. It provided 'Online Education Facility' to a group of students from Pazhayannur school and gave TV and Dish connection to K. Athira, daughter of Shivadas from Vadakketara, Killiyil house, who is a student of Pazhayannur Higher Secondary School. The NSS volunteers of unit 209, NCERC

initiated the activity of embroidering face covering cloth-made masks, during this lockdown period as a step towards creating safer and better world free of Covid pandemic.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria3/new-jan-2022/3.4.1-AQAR-2020-2021.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

4

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

14

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

1063

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

73

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

15

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.

Academic Facilities

Nehru College of Engineering and Research Centre follows the norms laid down by AICTE and APJ Abdul Kalam Technological University for creating and enhancing the infrastructure facilities for effective teaching and learning. The Institute has sufficient classrooms (55-Nos), seminar-halls (6-Nos), various laboratories, library with ILMS, and 64 Mbps internet facility including Wi-Fi. Total area of our institution is 26228 Sq. Mts. The Academic Blocks, Aryabhatta & Bhaskara consists of Lecture theatres, Tutorial rooms and separate cabins for each faculty. The magnificent KAPILA Block has computer laboratories, lectures theaters, tutorial rooms, faculty cabins, office of the Director and the Board Room. This block has infrastructural facilities to cater to the academic activities of MBA and MCA.

Library

The college has a central independent library with plinth area 9000 sq.ft with all modern facilities. Library is open for use

from 8.00 am. to 8:00 pm. (except on Sundays & Government holidays) . E-Learning Resources, like EBSCO and JGate are available in the Library. The entire library is fully automated by software called KOHA LIBRARY SOFTWARE. The NCERC library is well stacked with 28309 textbooks and 4576 reference books. The library owns its online resources like DELNET, Shodhganga & ShodhSindhu.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria4/4.1.1NCERC-Infrastructure.pdf

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

NCERC encourages and provides facility for students to participate in various extra-curricular activities. Staff and students use the gymnasium under the guidance of professional trainers. Its state-of-the-art equipment includes bench press, peck deck, bicep curl, lateral pulley and body twister machines, treadmills and muscle building equipment. For all-round development of the students, there is fully equipped gym - fitness zone containing all modern equipment like dumb bells, Steering plates, Biceps Steering plates, skipping ropes. Other equipment include Hyper Extension, Fore Arm Extension, Leverage squat/calf raise machine, Bicep cart, fore Arm extension, Pull up stand, Bench press, Abs machine etc., Outdoor games -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. A huge football ground and cricket ground (10, 450 Sq ft.) exists in the institution. Cultural Activities-This committee along with staffs and students of the college organizes an annual cultural function named BLOOM. To broaden the horizons of the students, they are encouraged to participate several inter-colligate events. Annual day is also celebrated.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria4/4.1.2NCERC-Facilities-for-cultural-sports&games-big.pdf

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

61

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria4/4.1.3NCERC-Geo-Tagged-Photographs-of-Classrooms.pdf
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

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

44.37

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)

Library

The central library with all its facilities has become a centre for acquiring knowledge developing skills and getting exposure to newer fields of study and research, in addition to being "connected" to the outside World through the Internet. The college has a central independent library with plinth area 9000 sq.ft with all modern facilities.

Access to the library is managed by using ID card. Library is open for use from 8.00 am to 8:00pm. (except on Sundays & Government holidays) .The entire library is fully automated by software called KOHA LIBRARY SOFTWARE. The NCERC library is well stacked with 28309 textbooks and 4576 reference books . The library also owns its digital set up with 64Mbps speed to access e-journals, e-books and other online resources like DELNET, Shodhganga & ShodhSindhu. . To inspire the significance among the students concerning current affairs and general knowledge, study materials related to GATE and competitive examinations is available in the college library. DELNET is very helpful to access rare books from various institutions libraries. Manuscripts from various departments are available in our library for student reference.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://ncerc.ac.in/downloads/criteria4/4.2.1.pdf

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

A. Any 4 or more of the above

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

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

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

7.93

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

290

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

Our institution has seven computer laboratories & 620 computers connected through LAN or Wi-Fi connection with more than 64Mbps internet speed to share & access knowledge resources like NPTEL, MIT resources, YouTube etc. The computers has various operating systems like windows-XP, windows-7 and Ubuntu.

Computers have various software packages like Mat lab, Xilinx, AutoCAD, Python Turbo-C, Java, labVIEW etc., which are necessary for teaching and learning.

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 configuration of Intel Core2Duo/2.40GHZ/1GB RAM/160 GB SATA HDD/ Intel Onboard E'Net.

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, smart boards etc., are updated frequently.

IT facilities supports project development , research and publications, startups, innovations , co-curricular activities of the student and faculty members. icampuz is the ERP software of the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ncerc.ac.in/downloads/criteria4/4.3.1.pdf

4.3.2 - Number of Computers

610

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)	
371.89	
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, each department submits budget proposal to Principal. The proposal includes request for purchase of equipment / devices / instrument / computer systems / software / consumables and maintenance of those. This will be discussed in the HOD's meeting and the management will sanction the budget to every department during the beginning of academic year.

Once the tenders are submitted by different agencies, the management selects good quality products at reasonable rate.

For the maintenance of these facilities, housekeepers are allotted for the maintenance of buildings, classrooms, laboratories, washrooms and furniture.

Our college has a dedicated Campus Maintenance Office for the maintenance of buildings, classrooms and laboratories. A maintenance register is being kept in the. All complaints and recommendations are being checked and processed by the Officer with the approval of the Principal.

Calibration

1. A master list of inspection, measuring and test equipment s under calibration is identified in each department.
2. Each equipment is identified with a unique number.

3. Calibration frequency is identified for each department.

4. Calibration is done as per the plan prepared and kept in the department.

5. A calibration schedule is prepared and equipment are removed from the workplace before it is due.

6. Calibration details are displayed on the equipment where possible.

7. The certificates received from the external calibration agencies are verified and authorized.

8. The error notifications if any observed are entered in the calibration register in the department.

9. Where internal calibration is done master equipment which is calibrated externally is selected for calibration.

10. Measuring instruments are calibrated after breakdown.

DUTIES & RESPONSIBILITIES

System Administrator

- Maintaining complaint/Service/Maintenance register for department users. Preparing & maintaining IT purchase request.
- Maintaining files such as purchase request file, Service request letters file for printer service & toner refilling, Systems working status weekly consolidated reports file, purchase invoice/bills file, software license copy file, time table file, service report file etc.
- Maintain for LAN and WAN connectivity. Morning checks of systems/software
- Monitor system performance and provide security measures, troubleshooting and maintenance. Assist users to diagnose and solve their problems.
- Design and implement systems, network configurations, and network architecture, including hardware and software technology, site locations, and integration of technologies.
- Maintain the peripherals, such as printers, that are connected to the network. Train users in use of

equipment.

- Ensure virus protection software on servers and workstations.

Laboratory Assistants

- The systems/equipment should be serially numbered indicating the short title of Nehru Group, Institute, Department and Lab.
- All the systems / equipment / instruments should be kept in working condition and should be cleaned on a daily basis.
- The configuration of systems should be checked daily.
- Maintenance and upkeep of systems with the help of system administrators.
- The system should be kept in 'shut down mode' after use by each batch of students.
- The warranty period of each system / equipment / instruments should be promptly monitored.
- Breakage or defect of any items has to be reported to the HOD / vendors in time.
- Theft / breakage by students have to be recorded in the breakage register on a daily basis and the register got counter signed by HOD/Principal the very next day itself.
- The UPS and battery maintenance has to be checked at least once in a week.
- A monthly consolidated status report for each lab should be forwarded to the Principal and a copy to the CEO / Secretary

Site Engineer

- Maintaining and administering the entire civil construction works, planning, designing, checking the quality and quantity of the materials used and workmanship, coordinating with Architects, Engineers, Consultants and Contractors with respect to all the works.
- Look after and coordinate the entire civil, electrical,

other repair and maintenance works in the campuses.

- Maintaining high quality of works, approving the estimate and bills with the consent of Management.
- Maintaining all the registers required for related to the construction for the use of Architect and College. Besides, providing the daily returns in a prescribed format, already designed for your use. The stock registers related to cement, steel are subject to surprise checks by the Architect or by the Management or by representative of the Management. The daily return should reflect the stocks.
- Maintaining the quality of the works executed by the approved contractors. Ensuring raw materials quality.
- Preparing the plan and estimate whenever required.
- Required to verify "M" Book maintained by the contractor for its correctness. The "M" Book entries will be subjected to a random checks by the Architect, or the by the Management or by the representative of the Management.
- Required to ensure "bills" submitted by the contractors for its correctness regarding the quantity and rates.
- Enforcing stocking of raw materials in places fully secured, where the students experience the least disturbances.

DUTIES AND RESPONSIBILITIES OF MAINTENANCE DEPARTMENT

Responsibilities

- Perform cleaning activities such as dusting, mopping etc.
- Perform minor fixes such as repairing broken locks, filling gaps on walls etc. Check control panels and electrical wiring to identify issues
- Install appliances and equipment
- Conduct maintenance tasks such as replacing light bulbs
- Inspect and troubleshoot equipment and systems (e.g. ventilation) Check functionality of safety systems (e.g. fire alarm)
- Report to a facilities or maintenance manager for issues

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://ncerc.ac.in/downloads/criteria4/4.4.2.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

65

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

531

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	https://www.ncerc.ac.in/downloads/criteria5/newupdate/5.1.3.pdf
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

837

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

837

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

5.1.5 - The Institution has a transparent

A. All of the above

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

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

135

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

35

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

6

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/criteria5/newupdate/5.3.2 AQAR 2020-21.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

184

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://www.ncerc.ac.in/downloads/criteria5/newupdate/5.4.1.pdf
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

VISION

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

MISSION

NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them in to technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

Application of Vision and Mission

The Vision and Mission gives 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 the society . This privilege of assimilating such knowledge and training is aimed at developing the 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.

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

- IQAC
- Disciplinary and Anti-Ragging Committee
- Grievance and Redressal Committee
- Examination Committee
- NSS Committee
- NCC Committee

All the above committees are headed by a senior faculty and its members are a team of faculties and students. Each committee conducts different meetings to solve different issues and to come out with initiatives to enhance the working of the committee towards development of the college. Guidelines of affiliated universities are given utmost importance while deciding the activities of these committees. All decisions made by the different committees are recorded and approved by the principal.

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 eligible programs have applied for Accreditation by the National Board of Accreditation(NBA) in 2020 and awaiting the peer team visit. The institution has been reaccredited by National Assessment and Accreditation Council and has been awarded A grade with a score of 3.18/4. Institution has entered in MoU with several companies for reaffirming industry Institution Interaction. Fourteen start up ventures have been in place in 2020-21 and is constantly nurtured by the effective mentoring by the Institution. Institution has successfully conducted FDP, international conferences, webinars and workshops. Institution has participated in the NIRF ranking 2021. Institution through its steady functioning is in the forward march towards accomplishing autonomous status

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.

Institution's Vision and Mission provide the direction and goals for all programs. A definite system is in place with clear scalar chain for proper running of the institution. Nehru College of Engineering and Research Centre(Promoted by Nehru College of Educational and Charitable Trust) has a well-defined Organizational Structure that outlines how certain activities are directed in order to achieve the goals of an organization. The Board of Trustees includes Chairman & Managing Trustee, CEO & Secretary and the Trustee which leads the Institution. The Academic activities including various departments, Library, Hostel Placement Cell, Store, Physical Education, Student Counselor, Exam Coordinator are mainly administered by the Principal. The HoD assisted by the Professors/Associate Professors/Assistant Professors/Workshop and Laboratory In charges coordinate the academic activities. The Principal of the Institution has the overall charge of the Administrative Department, Establishment department and Finance Department. The annual academic calendar and annual program budgets are prepared and approved by the Principal and Chairman of the Nehru Group of Institution. Audit of Department activities and department resources are done and approved by Head of Department, Principal, Resource Head and Chairman. Performance appraisals, Faculty feedback, student's feedback, parent's feedback, different complaints are analyzed and reports are prepared .

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

The teaching and nonteaching staffs are equally important for the running of an education institution. The Following welfare schemes are available .

List of Welfare measures -For teaching staff -PK DAS Hospital Privilege Card, Health Policy Scheme, Chikitsa All employees who has been working for more than 1year are provided with this scheme of Rs.50,000,Accident insurance scheme for teaching staff, insured by Universal Sompo General Insurance Company, Coimbatore, Financial support to faculty members for publishing research paper in international, national journals, rupees 5000/and 1500/ respectively. Financial supports to faculty members for publishing books under reputed publishers, Rs 5000/for individual author 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, Chikitsa All employees who has been working for more than 1 year are provided with this scheme of Rs.50,000, Accident insurance scheme for teaching staff, insured by Universal Sompo General Insurance Company, Coimbatore. 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

34

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

10

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

165

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 appraisal is carried out at predetermined intervals and is documented.
- Appraisal shall be done for all employees including

staff, contract employees, interns, and students, trainees if they are involved in the care providing or supporting activities in the institutions functions.

- Performance appraisal is evaluated based on the expected performance described in the job descriptions.
- Self appraisal reports shall be sought from the following staff. Supervisory cadres and above(Qualified with the capacity to understand the purpose and to fill the format)
- Staff members are eligible to increments prescribed at the end of 12 months in service in the institution. The increments will be in effect at the beginning of every academic year, ie. June.
- Additional increments shall be given to staff members based on their contributions and results achieved at the discretion of the Management.
- Annual staff performance appraisal systems consists of Students feedback, Appraisal by Head of the Department, appraisal by Head of the Institution

All the staff members are required to submit their self evaluation report at the end of every academic year in the prescribed format. The Head of the Department, Principal, HR Head and Administrator will discuss results of the appraisal with each employee.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.3.5-NCERC.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

In every financial year the college will conduct an internal audit through departmental staff as well as external audit by the statutory auditors.

Internal Audit

The internal financial accounting would be completed before 10th of every month considering all the previous month transactions. After completion of the monthly accounts the same accounts would be audited by the internal auditors appointed by the management. The account books are prepared by a team of accountants and headed the finance manager. While verifying entries, if any mistakes/ short comings identified/noticed the same could be rectified in the same month by the concerned departments.

External Audit

The external statutory auditors shall visit the college office twice in a year for audit and submit the final audit report. The external auditors consist of a team of chartered accountants from an external organization. They will check each expense against the bills provided and make sure that they are original. After completion of the auditing, the final statutory audit report shall be submitted to the Governing body for approval in the month of August every year. After approval, the financial accounts, documents could be used for all statutory purposes.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.4.1-NCERC.pdf
Upload any additional information	View File

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

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

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
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 primary source of fund is generated by the institution through fees collected from students towards tuition fees. This is in accordance with the rules and regulations of the education department state government, central government and the affiliated university. This fee amount is primarily used for the development of students, organizing seminars, field trips, organizing workshops, faculty remuneration and completion of the courses. They are primarily used to organize the event, purchase resources for the event and to cover all expenses of the event. Fund is also accrued in the form of internal revenue such as interests from bank deposits.

As a part of Outcome Based Education system, this institution has given utmost importance for the generation and utilization of funds to meet the objectives of the institution.

1. Adequate funds are allocated for effective teaching-learning practices that include conduct of FDPs, orientation programs, workshops, inter-disciplinary activities, training programs that ensure quality education.

2. The budget will be utilized to meet day-to-day operational and administrative expenses and maintenance of the fixed assets.

3. Adequate funds are utilized for development and maintenance of very good infrastructure for the institute, library and social service activities.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.4.3-Balance-Sheet.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

The IQAC of the college was established in April 2014 for enhancing the quality improvements in the academic process, pre-accreditation and post-accreditation exercise. The IQAC cell is coordinated by a team of faculty members from all the departments under the strict supervision of principal.

The objective of the cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution at all levels with the involvement of all stakeholders towards quality enhancement through internalization of quality culture and institutionalization of best practices.

From devising strategies to improve the teaching-learning process through increased use of ICT, expansion of 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 been a proactive player in the overall benchmarking process.

The IQAC has regularly convened meetings; it has submitted the AQARs to NAAC in a timely manner; it has collected feedback in appropriate forms from different stakeholder categories, analyzed the same and used it for qualitative improvement; it has organized Academic and Administrative Audit and has initiated follow-up action as per the suggestions and recommendations of the eminent evaluators.

File Description	Documents
Paste link for additional information	https://ncerc.ac.in/downloads/criteria6/new-jan-2022/6.5.3_IQAC_meeting_minutes_2020-21.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

IQAC contribution towards teaching learning process

- Monitoring of course files, lecture schedules, course plans by random sampling
- Verification of internal series test analysis, question paper setting based on Blooms Taxonomy
- Arrangement of special classes for weak students during evening hours.
- Regular feedback from the stakeholders (Students, alumni, industry experts, research organizations and parents)
- Identifying the new processes and recommending the same for improving the quality.

IQAC conducts internal academic audit twice in year for all Departments. The feedback and suggestions given during the Academic audit are incorporated to prepare Action plan for subsequent year. The Academic Auditing system comprises of two bodies; the Internal Audit Cell at the Institution level and the External Auditor at the University Level.

The internal academic audit is carried out in department concerned with the objectives of monitoring course files, lecture Schedules, course plans by random sampling, Verification of internal series test analysis, question paper setting based on Blooms Taxonomy, Arrangement of special classes for weak students during evening hours, Regular feedback from the stakeholders, To identify the new processes and recommending the same for improving the quality, To evaluate the performance of individual faculty members and the department and to strengthen the monitoring /counseling system in the department etc.

File Description	Documents
Paste link for additional information	https://www.ncerc.ac.in/downloads/criteria6/new/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://www.ncerc.ac.in/downloads/NCERC_Annual_Report_2020-21.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

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 responsibilities, commitments, skills and efforts achieved by women and will develop reasoned ideas of their role in society.

Workshops on gender equality

File Description	Documents
Annual gender sensitization action plan	https://ncerc.ac.in/downloads/criteria7/1/7.1NCERC-GEAP.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://ncerc.ac.in/downloads/criteria7/1/7.1NCERC.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.

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. The treated water from the plants are used for gardening and plantations, while the semi-solid waste is used as a manure for rubberplantations in the campus.

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 energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for

A. Any 4 or all of the above

persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

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

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

Nehru College of Engg and Research Centre stands as an effective pillar in contributing towards cultural, regional, linguistic, communal, socioeconomic and all such diversities. Our efforts/initiatives to build several environments to preserve tolerance and societal harmony were well recognized, and these projects ultimately targets to inculcate some good qualities like modesty and obligation, in our student mindset.

Our college promotes good relations with neighborhood community through extension activities and other programs for the betterment of society and to inculcate the social responsibility among the students. We feel extremely proud to host events which aim at contributing and bringing a positive change in the society. The institute believes that such events and causes provide student a healthy education. To sensitize the students to social issues and holistic development in the neighborhood communities following activities were initiated by NCERC,

Social Extension Activity

Charity Program

Health care activities**House for Poor****Staff Club Study kit for poor**

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

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

Nehru College of Engg and Research Centre sets high priorities for values, rights and constitutional obligations with an ultimate aim of edging the student community as responsible citizens; as envisioned in our NGI motto- Molding True 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**Excise department programs****Anti drug Campaign****Legal Awareness Program****Career Guidance program for School students****Samanwaya - Anti Covid projects**

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://ncerc.ac.in/downloads/criteria7/9/7.1.9NCERC.pdf
Any other relevant information	https://ncerc.ac.in/downloads/criteria7/9/7.1.9NCERC-A.pdf

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

Childrens Day

International Yoga Day

Independence Day

Republic Day

Abdulkalam day

P N Panicker week

Teachers day

National Youth Day

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 PRACTICE 1

Title of the Practice :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.
- To engage our Students through field work, stake-holder interactions and design societal objectives so as elevate their talents & higher education for development of rural India.
- To utilize our academic excellence in the field of science, engineering, technology and management, for providing support for rural India through Local self-Government and regional agencies .

The Context: . Nehru College of Engineering and Research Centre is the Partnership Institute of UBA in our region. Through PIs, Unnat Bharat Abhiyan envisions of carrying transformational change in rural development processes by influencing knowledge institutions to help build the architecture of an Inclusive India.

The Practice :Being a Participating Institution (PI) we devised a UBA Cell which will be responsible for carrying out these activities. The Cell then developed an active working group consisting of motivated faculty members drawn from various departments, and segregated the works according to their respective domains, areas of specialization, expertise and interest.

As a PI-UBA, we were responsible for adopting villages in our region, and to interact with the villagers and unswervingly work on the field. For this, our UBA cell developed linkage with selective rural clusters, involving in their planning process and promoting the necessary technology interventions so as to improvise and expedite the developmental efforts in those clusters. The major activities of NCERC-UBA Cell are summarized below,

- Adopted FIVE villages: Kaniyarkode, Kuthampully, Pampady, Puthirithara & Thiruvilwamala, in consultation with the District Collector and Grama Panchayath for the development activities under the UBA.
- Executed our field studies, to learn the implementation of the Government schemes, and facilitate their better implementation so that they meet their objectives best.
- Engaged interested faculties, students, NSS and other bodies for these community development activities.

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, and initiated requisite modifications and other facilitating measures. The major activities of NCERC-UBA Cell are summarized below,

- **Completed Village survey:** Completed As the first phase, Village surveys for the 5 adopted villages successfully with the help of village officers.
- **Completed Household survey:** The second phase was more elaborate and tedious, where we performed Household surveys. Our team visited the houses of all the 5 adopted villages through our students and faculty members and had a direct interaction with villagers.
- **Completed Problem Identification:** Through brainstorming sessions with various Stakeholders & Gramsabhas, we drafted out the major issues to be addressed through UBA project. The Identified problems in the adopted villages were prioritized, with the help of Gram Panchayat Officers and then we submitted the Plan of Action successfully.
- **Ongoing Gram Panchayat Development Plan**

Problems Encountered and Resources Required:Some Problem encountered during the practice are listed below, but none of them have affected our enthusiasm in executing the project.

- It is very difficult to meet the Govt authorities (eg: Village officer, LSG officials) during the working hours
- Due to official engagements of various officials, we couldn't synchronise with the schedules, and at times though light, this delayed the process.
- At times completing a single task took enormous time for the students community, as we lacked the domain experience.

BEST PRACTICE 2

Title of the Practice :Empowering Managerial skills of Student Community through Leadership Advantage Workshop

Objectives of the Practice

- To develop students as young Leaderswho possess a deep sense of self-awareness

- To create an environment to connect and engage with others in meaningful ways.
- Make them able to create possibilities from their circumstances, rather than being limited by them.”
- To make the participant define hi/her very individual purpose as a leader.

The Context :TheLeadershipAdvantageWorkshop was an in-depth journey to personal mastery as a leader, designed to foster the participants as emerging leaders and high potential people. Students from 24 colleges joined for the program, and our B-School(Nehru School Management).The competition included various interesting and informative rounds, including memory game, creative game, physical games, Communication games, puzzles and quizzes. The whole event was actively handled by our MBA Professors.

The Practice:The Workshop follows the patterns of Experiential Learning and evaluation. During the events student may experience success, failure, adventure, risk taking and uncertainty. The outcomes of their experience cannot totally be predicted. Workshop focuses on the factors that, chosen experiences are supported by critical analysis and synthesis developed by the participating teams.

During evaluation tracks, Experiences gained by the participant are to be structured for the student to take initiative, make decisions and be accountable for results.

Evidence of Success

- Puzzles/Quizzes: Leadership workshop facilitated the development of specific managerial skills and empowered our participants to become more resilient to change.
- Physical Games: Enabled the teams to react, work together and keep up their competitive edge, so as to respond with a collective responsibility attitude.
- Communication game: Delivered the importance of equilibrium; to catalyze growth and turnover, while at the same time maintaining a healthy and happy work environment.
- Team games: Empowered the student leaders to create trust, and mutual support in their units, making it easier to move faster and be more competitive, always one step ahead
- Presentations: Taught them a set of Innovative leadership

talents to remain competitive and elevate as leaders with the right skills to face the situations of instability.

- **Coaching:** Imparted Experiential Leadership coaching as the way to get lead skills, and insisted the importance of its necessity for a futuristic professional life.

Problems Encountered and Resources Required

- **Accessibility:** Our College is located in a rural area, many participant colleges were also in remote locations, hence the timely transportation was a problem.
- **Attitude of heads of different colleges:** The heads of different colleges were conventional and traditional and initially not ready to accept this mode of learning
- **Time constraints:** For our Faculty trainers, Managing their regular classes and the workshop sessions simultaneously was difficult. Moreover the workshop was a 1 day thing, which was not sufficient because the time required for teams to reach college itself was time consuming.
- **Limited Funding:** Though we were funded by the management, the program could have made more better with extra funds.

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

NCERC's Holistic Model 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.

Equally important is to experience transcendence and be existent to the activities in the society and its culture. Nehru Group visualizes, Holistic Education system would boost the morale of a student to achieve greater heights in their careers, lead a quality life and grow up to be good citizens of 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.

- IIC: Our college is proud to be a MHRD MIC HEI, dedicated to promote innovation through multitudinous modes aiming to create an innovation eco-system in the campus.
- IEDC: works closely with the University's Entrepreneurship Development Cell and State Government organizations to promote entrepreneurship.
- Karma Management Meet: The National Level Management Fest of NCERC's School of Management is being conducted since last 12 years.
- NAppIER: Nehru Application for IT Enabled Rendering, is an online application focusing our Learning Management routines during Covid lockdown.
- NeCTAR: rated as the first of its kind e-Conference being hosted by an Engg.College of Kerala state. NeCTAR2020: is a virtual conference.. an online event that included a series of large sessions run by thought leaders in the industry who presented to and interacted with attendees, replicating a traditional conference in a cyber-environment.
- StartUp ecosystem: Encouraging the Students to be a Job

Creator and Not Job seeker, Currently Ten New Start-up Companies are being incubated at Nehru Group-NewGen IEDC, Coimbatore.

- Technology Business Incubator: NGI-TBI aims to guide and encourage all the innovative ideas, whether for a product, service, equipment, novel application, business model and technique or tool in the domain of Healthcare and Internet of Things.
- NSite: We conduct an all Kerala SciTech Expo every year, exclusively for students of High School, Degree and Diploma levels across Kerala.
- NCC: NCC cadets of Nehru College, Pampady under 23 Kerala Battalion, Thrissur conducted various social awareness programs such as Unity Run, Cycle Rally, Blood Donation Camp, and Tree Plantation in the outskirts of the institution.
- Bloom: South India's one of the largest cultural extravaganza. The two-day event is staged on a dome like structure resembling Film Award nights, featuring dance, dramatics, film, photography, music, debating, creative writing and more.
- Samanwaya: This was a showcasing event for our recent inventions. Our College was on the frontline in the war against Covid19 and our team of Students and Staff came out with some novel ideas/devices which would be of high help to the general public.
- Thirike : NEST (Nehru Ex Studens forum) initiates Thirike an Alumni meet every year, to remember the good olden days. It creates a great opportunity for the old batch mates to interact and refresh their memories.
- HeliFly: Nehru Group of Institutions, initiated a Helicopter carnival, through which it made a forum for

the general public to have an Arial view of Vilwadri hills and the holy river Nila.

- **NSS:** Our NSS unit is ever dedicated in all its activities and was honored as the best in state of Kerala. Whether it is celebration of commemorative days, service for society or fight against communal problems.
- **Padham Onnu Oru Kai Sahayam:**A charity program for poor school students. This program was initiated by our staff club associating with ClubFM radio.
- **PKDas Dream Home:** In fond memory of our founder Late Sri. PK Das, a well-known philanthropist, DREAM HOME is a project which helps the underprivileged sector of people to build their houses.
- **CSR activities:** Our College considers it a high priority thing, to support the society. NGI is actively involved in community development as a part of its social responsibility.
- **Nehru Vigyan scholarships:** Nehru Vigyan is Scholarship initiative of Nehru Group. Students with high merit are provided with financial support to complete their education under our institutions.

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

Update the GEAP Activities and ensure the Happenings

Maintain Enery Conservation Measures

- **Solar Panel Purchase/Maintanence**
- **Bio Gas Plant Maintanence**

- motivate LED Purchase

Waste Management

- Sewage Treatment Plant to be properly maintained
- e-waste MoU and Activities to be well executed

Water Recycling

- Ponds/Reservoirs to be maintained
- Fish farm to be enhanced
- Borewell and Open well to be recharged in proper ways

Ban Usage of Plastics

Enhance Green Zones

Conduct Energy, Environment and Green Audit

Update the Disable friendly Softwares in Digital Library

Conduct Comemorative days regularly

Conduct Sensitisation Programs on Values and Social commitment

Continue the Current Best Practice and encourage Department level Best Practices to accelerate