



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		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 own campus		Yes
Phone no/Alternate Phone no.		04884284000
Mobile no.		7510882777
Registered Email		naacordinator@ncerc.ac.in
Alternate Email		principal@ncerc.ac.in
Address		Nilu Gardens, Pampady post
City/Town		Thiruvilwamala
State/UT		Kerala
Pincode		680588

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Rural</b>
Financial Status	<b>Self financed</b>
Name of the IQAC co-ordinator/Director	<b>Dr. Sobha Manakkal</b>
Phone no/Alternate Phone no.	<b>04884281670</b>
Mobile no.	<b>8589058522</b>
Registered Email	<b>iqac@ncerc.ac.in</b>
Alternate Email	<b>hodeee@ncerc.ac.in</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.ncerc.ac.in/downloads/aqar/aqar%2018-19.pdf">_https://www.ncerc.ac.in/downloads/aqar/aqar%2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.ncerc.ac.in/downloads/criteria/1.1.2/1.1.2NCERC.pdf">https://www.ncerc.ac.in/downloads/criteria/1.1.2/1.1.2NCERC.pdf</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B</b>	<b>2.72</b>	<b>2015</b>	<b>01-May-2015</b>	<b>30-Apr-2020</b>

<b>6. Date of Establishment of IQAC</b>	<b>21-Apr-2014</b>
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**7. Internal Quality Assurance System**

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>FDP on Power Quality</b>	<b>27-Jan-2020</b>	<b>30</b>

issues in Power Generation, Transmission and Distribution sponsored by A P J Abdul kalam technological university	5	
National seminar on Block chain	08-Aug-2019 1	278
Seminar on Entrepreneurship leading trends in IT tech.	04-Sep-2019 1	278
Training program- Ethical hacking	25-Nov-2019 2	18
Webinar on Trends in Robotics	24-May-2020 1	60
National Seminar on GAZEBO	21-Aug-2019 1	60
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
To setup a Start-up company	KSUM	Kerala Start-up Mission	2019 365	105000
For a Start-up company	IEDC	NGI-NewGen IEDC	2019 365	250000
To begin a Start-up company	IEDC	NGI-NewGen IEDC	2019 365	250000
For conducting FDP	University	Dr.A.P.J Abdhul Kalam University, Kerala	2020 6	125000
Seed fund for village survey	Central Govt	Unnath Bharath Abhiyaan	2020 15	50000
Start up SOWAFIS	IEDC	NGI-NewGen IEDC	2019 365	250000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

No

Upload latest notification of formation of IQAC

No Files Uploaded !!!

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes												
Upload the minutes of meeting and action taken report	<a href="#">View File</a>												
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No												
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>													
APJ Abdul Kalam Technological university sponsored Faculty development programs were conducted in addition with national seminal, webinar and training programs													
<a href="#">View File</a>													
<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>													
<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>NLAP-program</td> <td>NLAP-program organized in association with MSME</td> </tr> <tr> <td>Faculty Development Program</td> <td>FDP sponsored by APJ Abdul kalam University is organized on the topic power quality issues</td> </tr> <tr> <td>Training program</td> <td>Training program on ethical hacking is organized</td> </tr> <tr> <td>National seminar</td> <td>Conducted a national seminar on MOBILE ROBOTICS</td> </tr> <tr> <td colspan="2" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>		Plan of Action	Achivements/Outcomes	NLAP-program	NLAP-program organized in association with MSME	Faculty Development Program	FDP sponsored by APJ Abdul kalam University is organized on the topic power quality issues	Training program	Training program on ethical hacking is organized	National seminar	Conducted a national seminar on MOBILE ROBOTICS	<a href="#">View File</a>	
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<a href="#">View File</a>													
<b>14. Whether AQAR was placed before statutory body ?</b>	No												
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No												
<b>16. Whether institutional data submitted to AISHE:</b>	Yes												
Year of Submission	2020												
Date of Submission	16-Mar-2020												

<p><b>17. Does the Institution have Management Information System ?</b></p>	<p>Yes</p>
<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<p>The institution is using icampuz as Learning Management Systems . The Learning Management System - icampuz is a software application for the administration, documentation, tracking, reporting, automation, and delivery of educational courses, training programs, learning and development programs . Using icampuz, academics related contents is delivered. The LMS icampuz manages all types of content, including video, courses, and documents and brings Parents, Students, Teachers and Management on a flawless transparent platform. . It facilitates the academic as well as administrative work automation through various application modules. The facility is utilized by all major stake holders namely students, faculty , staff, parents, administrative staff and Management. The structure of the Icampuz is in such a way that it is fully transparent and highly flexible. Each student, staff, faculty and academic administrative heads are provided with login credentials with access and privileges as needed by their role and position. The Learning Management System - icampuz comprises of several modules like admissions, academics,accounts,students,human resources, inventory management, hostel management , placement management, certificate management, e learning , timetable, attendance, result analysis, student fee details , group messages, test modules, exams, library management, payroll etc . Faculty members mark attendance for students during the theory , practical, value added sessions and all other activities . Assignment and test marks are also entered in the icampuz. Lecture materials, question papers can be uploaded. Assignment and test can be conducted using icampuz. Internal assessment marks and end semester attendance percentage are available in icampuz. Students can access lecture materials, question papers for assignment and test, daily attendance, consolidated attendance , fee dues ,</p>

information from the class advisor and management . The learning management system enables planning of lectures, students' attendance recording, learning material posting, assignments posting and submission, marking of evaluation records , internal examination mark entry, analysis and such features. Since parents also have the access they can regularly monitor the day to day progress of their wards. The leave management system enables application of leave by each member online, which can be recommendation or refused by superior officers and finally approval or rejected by Head of the Intuition. The system records the leave status and permissible leave as per HR policy will only be sanctioned. The status of daily punching time is also recorded in the leave management systems which enable the higher authorities to monitor the reporting time of the subordinates. More advanced modules for accounts, purchase, and similar are also accessible . The intention of the campus is to move to paperless office and equip the icampus to be fully supportive for academic and administrative functions of the campus.

## Part B

### **CRITERION I – CURRICULAR ASPECTS**

#### **1.1 – Curriculum Planning and Implementation**

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Nehru College of Engineering and Research Centre imparting excellence in education in Engineering, Management and IT. We are affiliated to A P J Abdul Kalam Technological University and we follow the curriculum prescribed by the University upholding our institutional goals and concern towards the students.

The institution aim is to develop and organize various plans for effective implementation of the Curriculum which is to be fulfilled by the Academic Committee, in which first step is taken in the beginning of every academic year to discuss about the curriculum gap. Accordingly teachers are instructed to prepare their Action plans. Time Table and Lecture Plan Time tables are prepared for all the classes of the respective programs. Allocations of lectures of all the subjects are planned according to University rules and regulations. All faculty members follow teaching schedule as per the time table. Our teaching faculty updates themselves by attending refresher courses, workshops, Faculty development programs, orientation programs conferences, seminars etc organized by various colleges under AICTE which help them for the accomplishment of their subject delivery & curriculum more effectively. Curriculum delivery by the faculty is periodically monitored by the respective HOD's and Principal. Teaching Methodology The teachers use various teaching methodologies to make learning process more effective. The subject teachers

organize regularly Industrial Visit, workshops, seminars, guest lectures, hands on training for enhancing their fundamental concepts and knowledge of the subjects. To organize study tours in concerned subjects, the college provides full support. The institute provides all necessary infrastructural facilities to our teaching faculty such as Audio Visual Hall, Language lab, Educational Software, E-Journals, Reference books in library and Lesson plan includes course objectives, content topics, reference books and the expected duration from the students by learning through the topics is prepared by the respective faculty members at the beginning of each semester. It gives an insight how the lecture class will be handled throughout the semester. Laboratory Manual is for all practical courses with additional/ Design based experiments more than the University prescribed experiments. The excellence of Classroom teaching with Course Plan Meetings are held in each department to discuss the distribution of courses for upcoming academic sessions during the end of the semester. Based on individual faculty members experiences, the course is assigned to them by the head of the department. The individual faculty member prepares a course plan. It gives an insight into how the lecture class will be handled throughout the semester before commencing of each semester. The excellence of the classroom teaching depends on content delivery, interaction, discussion, examples, applications and usage of modern ICT tools. The role of the teachers is significant not only with contents but also with motivational contributions of students through paper presentation, projects, group assignments, visit to various industries for better exposure.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
MACHINE LEARNING USING PYTHON	NIL	19/08/2021	30	EMPLOYABILITY	YES
POWER ELECTRONCS SIMULATION USING MATLAB	NIL	20/08/2019	30	EMPLOYABILITY	YES
EV (FUTURE MOBILITY)	NIL	20/08/2019	30	EMPLOYABILITY/ENTREPRENEURSHIP	YES
ADVANCED WELDING AND CASTING	NIL	22/08/2019	30	EMPLOYABILITY	YES
INTRODUCTION TO MATLAB SOFTWARE	NIL	19/08/2019	30	EMPLOYABILITY	YES
RETAIL MANAGEMENT	NIL	13/08/2019	30	EMPLOYABILITY/ENTREPRENEURSHIP	YES
FINANCIAL STATEMENT ANALYSIS	NIL	12/08/2019	30	EMPLOYABILITY	YES
EDA TOOLS IN VLSI	NIL	20/08/2019	30	EMPLOYABILITY	YES
AI USING	NIL	16/08/2019	30	EMPLOYABILITY	YES

RASBERRY-PI				ITY/ENTREPRENEURSHIP	
TYRE AND VEHICLE HANDLING DYNAMICS	NIL	16/08/2019	30	EMPLOYABILITY	YES
FUNDAMENTALS OF CONNECTED CAR TECHNOLOGY	NIL	16/08/2019	30	EMPLOYABILITY	YES
NETWORKING	NIL	13/08/2019	30	EMPLOYABILITY	YES
CYBER SECURITY AND TOOLS	NIL	13/08/2019	30	EMPLOYABILITY	YES
STRENGTH OF MATERIALS	NIL	20/08/2019	30	EMPLOYABILITY	YES
DIGITAL COMMUNICATION	NIL	20/08/2019	30	EMPLOYABILITY	YES
CYBER SECURITY	NIL	13/08/2019	30	EMPLOYABILITY	YES

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NA	Nil
No file uploaded.		

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CSE	01/08/2019
BTech	AUE	01/08/2019
BTech	ECE	01/08/2019
BTech	EEE	01/08/2019
BTech	ME	01/08/2019
BTech	MTR	01/08/2019
Mtech	CSE	01/08/2019
Mtech	Cyber Security	01/08/2019
Mtech	VLSI	01/08/2019
Mtech	Applied Electronics & Communication	01/08/2019
Mtech	Machine Design	01/08/2019
Mtech	Energy Systems	01/08/2019
MBA	MBA	01/08/2019



MCA	MCA	01/08/2019
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### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	1013	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
CYBER SECURITY	13/08/2019	99
MACHINE LEARNING USING PYTHON	19/08/2019	118
POWER ELECTRONCS SIMULATION USING MATLAB	20/08/2019	63
EV (FUTURE MOBILITY)	20/08/2019	16
ADVANCED WELDING AND CASTING	22/08/2019	89
INTRODUCTION TO MATLAB SOFTWARE	19/08/2019	76
RETAIL MANAGEMENT	13/08/2019	70
FINANCIAL STATEMENT ANALYSIS	12/08/2019	70
EDA TOOLS IN VLSI	20/08/2019	53
AI USING RASBERRY-PI	16/08/2019	24
<a href="#">View File</a>		

#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	ABT INDUSTRIES LTD, COIMBATORE	2
BTech	AI-ML	1
BTech	ANAND WATER METER MFG CO,PVT LTD,KOCHI	4
BTech	ANDROID APPLICATION DEVELOPMENT	9
BTech	ASSEMBLY OF VEHICLES (AUTO RIKSHAW, BIKE)	1
BTech	BGR ENERGY SYSTEM,CHENNAI	2
BTech	DESHABHIMANI PIUBLICATIONS PVT LTD ,KOCHI	4
BTech	DRIVES FOR ELECTRIC VEHICLES	3
BTech	EMBEDED SYSTEM AND IOT	1

BTech	Ethical hacking	14
<a href="#">View File</a>		

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

Feedback Obtained
<p>Feedback is collected from all stake holders including Students, Teachers, Employers, Alumni and from Parents using Google forms. Once the data is collected it will be scrutinized by a feedback analysis committee headed by Principal of Nehru College of Engineering And Research Centre. After the analysis of feedback forms from stake holders it was decided to offer value-added courses for academic year 2019-20 to overcome the shortcomings in the curriculum. Also, it was decided to improve the communication skill levels of students by providing training in communication improvements for the academic year 2019-20. It was decided by the feedback analysis committee to offer value-added courses from each department specific to gap filling required in curriculum. The following value-added courses will be offered during academic year 2019-20: 1.CYBER SECURITY 2.MACHINE LEARNING USING PYTHON 3.POWER ELECTRONCS SIMULATION USING MATLAB(EEE) 4.EV (FUTURE MOBILITY)(EEE) 5.ADVANCED WELDING AND CASTING 6.INTRODUCTION TO MATLAB SOFTWARE 7.RETAIL MANAGEMENT 8.FINANCIAL STATEMENT ANALYSIS 9.EDA TOOLS IN VLSI 10.AI USING RASBERRY-PI 11.TYRE AND VEHICLE HANDLING DYNAMICS 12.FUNDAMENTALS OF CONNECTED CAR TECHNOLOGY 13.NETWORKING 14.CYBER SECURITY AND TOOLS 15.STRENGTH OF MATERIALS 16.DIGITAL COMMUNICATION The expected outcomes from the value-added courses include enhanced employability skills, entrepreneurship skill development, communication skill enhancement and overall skill enhancement of students. This will increase placement opportunities and provide career enhancement for students. The students will also get wider choice selection for higher education including M.Tech, Master of Science etc.</p>

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MBA	MASTERS OF BUSSINESS ADMINISTRATION	120	30	24
Mtech	ENERGY SYSTEMS	18	4	3
Mtech	CYBER SECURITY	18	3	2
Mtech	COMPUTER	18	7	5

	SCIENCE & ENGINEERING			
Mtech	VLSI DESIGN	18	4	3
Mtech	MACHINE DESIGN	18	Nil	Nil
BTech	MECHATRONICS	60	39	34
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	60	18	14
BTech	ELECTRONICS & COMMUNICATION ENGINEERING	60	31	27
BTech	COMPUTER SCIENCE & ENGINEERING	120	82	77
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	851	180	116	21	27

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
137	137	13	61	8	10

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Every faculty is allotted with 10 students for effective mentoring system. The mentoring system is established to improve the rapport between the Faculty and Students. The main objective is to keep track of the progress of the students and counsel them accordingly for academic and personal developments. Dr. Mallika Balakrishnan, Ph.D in Psychology, is the Consultant Psychologist of the college. Ample opportunities are provided for both boys and girls for exhibiting their inbuilt talents. Parents are timely informed regarding lack of attendance, poor academic performance and psychosocial problems. The college endeavours to look after the total personality development of students through cocurricular and extra curricular activities and counseling programs. The Consultant Psychologist of the college and the Faculty offer guidance to the Students Carrier Development Programme in addition to classroom teaching. The Training and Placement cell and Entrepreneurship development are also part of this Endeavour. Annually we are conducting a massive celebration for Women's day, in which we invite Inspiring Women Personalities to share their experience and to offer advices to our students. Our counseling system provides support to the girl students and envisage them to realise and resolve their problems. Care is taken to empower the students in academics by imparting educational awareness training Programmes. Through Mentoring , the students keen area of interest are identified . Based on the interest , students are involved in arts

, sports, cultural , entrepreneur development activities , NCC , NSS , Service activities etc. The issues faced by the students (case specific) are addressed by class advisor, head of the department, academic and administrative committees and Consultant Psychologist of the college. Certain issues are informed to parents also. The institution focus on regular effective mentoring to strengthen the students towards leadership , self motivation and to make them confident , competent individuals in all walks of their careers and in all aspects of their life .

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1031	137	1:8

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
137	137	Nil	Nil	10

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mr. Midhun Raj P K	Assistant Professor	Setting of question papers for UG/PG programs
2019	Mr. Niveth L	Assistant Professor	Setting of question papers for UG/PG programs
2019	Mr. Ranjith PN	Assistant Professor	Setting of question papers for UG/PG programs
2019	Ms. Neethu M	Assistant Professor	Setting of question papers for UG/PG programs
2019	Mr. Saneesh A S	Assistant Professor	Setting of question papers for UG/PG programs
2019	Mr. Jishnu V P	Assistant Professor	Setting of question papers for UG/PG programs
2019	Ms. Remya Ramachandran	Assistant Professor	Setting of question papers for UG/PG programs
2019	Ms. Neethu M	Assistant Professor	Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
2019	Mr. Saneesh A S	Assistant Professor	Design and Development of Curriculum for Add on/ certificate/

			Diploma Courses
2019	Mr. Midhun Raj P K	Assistant Professor	Assessment /evaluation process of the affiliating University
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MBA	MBA	I/I	16/11/2019	22/02/2020
Mtech	ECEA, EEES, MEM D, ECVL	III/II	01/01/2020	11/04/2020
Mtech	EEES, CSCE, MEM D, ECVL	I/I	03/01/2020	15/04/2020
BTech	AU, CS, EC, EE, M E, MC	III/II	18/01/2020	28/03/2020
BTech	AU, CS, EC, EE, M E, MC	I/I	19/12/2019	07/05/2020
BTech	AU, CS, EC, EE, M E, MC	V/III	06/01/2020	25/03/2020
BTech	AU, CS, EC, EE, M E, MC	VII/IV	02/03/2020	09/04/2020
MCA	MCA	I/I	03/01/2020	18/05/2020
MCA	MCA	III/II	04/01/2020	18/05/2020
MCA	MCA	V/III	31/12/2019	18/05/2020
<a href="#">View File</a>				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 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. 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. A retest is

conducted to enable the student to earn internal assessment marks. The faculty will prepare answer-key for the examination question paper with mark allocation. The corrected examination answer booklets are distributed to the students within three days on completion of series test. If there is any deviation in awarding marks, it will be immediately clarified and, rectified by the subject handling faculty. Those answers booklets are acknowledged by the students and then they are collected and retained in the department. Mark list of the students are prepared, it is displayed in the notice board and conveyed to their parents by post. The marks are also entered in the ICAMPUZ software. The final internal assessment marks are verified and authorized by the students and displayed in the notice board. This final internal assessment marks and percentage of attendance are entered in KTU webportal (affiliating University) by the concerned faculty members. Each faculty member is assigned with KTU login id and password provided by University, for entering the final internal assessment marks. The University, has assigned KTU login id and password for the students to view their final internal marks.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The college is affiliated to A P J Abdul Kalam Technological University. The university declare the Academic Calendar in the beginning of every semester. After the commencement of semester, the college has to follow the Academic calendar. However, the college prepares its own academic calendar in alignment with the academic calendar of the affiliating University. The academic calendar of the institute includes Commencement of semester, completion of each module, Dates of internal assessment (series tests), Dates for practical exams, Dates of university tests, Dates for extra-curricular activities, like NSS/NCC/Sports/ Cultural and literacy programs, etc. Academic calendar is prepared by Principal, in consultation with head of the departments and the heads of all academic and administrative committees. The college academic calendar is published in college website, department notice boards, and laboratories and so on. The faculty members, students and all stake holders are aware of the academic calendar.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.ncerc.ac.in/departments>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
MC	BTech	MECHATRONICS	42	40	95.23
ME	BTech	MECHANICAL ENGINEERING	100	97	97
EE	BTech	ELECTRICAL & ELECTRONICS ENGINEERING	39	33	84.61
AU	BTech	AUTOMOBILE ENGINEERING	18	17	94.44

CS	BTech	COMPUTER SCIENCE & ENGINEERING	99	95	95.95
EC	BTech	ELECTRONICS & COMMUNICATION ENGINEERING	53	50	94.33
MCA	MCA	MASTERS OF COMPUTER APPLICATION	32	32	100
MBA	MBA	MASTERS OF BUSSINESS ADMINISTRATION	54	48	88.88
CSCE	Mtech	COMPUTER SCIENCE & ENGINEERING	5	5	100
ECVL	Mtech	VLSI DESIGN	4	4	100
<a href="#">View File</a>					

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[https://docs.google.com/forms/d/e/1FAIpQLSc580cFiB3\\_GsCYYOmh60tRsU-KmVTOEIwAyA-5o-94bKV3dA/viewform](https://docs.google.com/forms/d/e/1FAIpQLSc580cFiB3_GsCYYOmh60tRsU-KmVTOEIwAyA-5o-94bKV3dA/viewform)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	365	NGI-NewGen IEDC, Coimbatore	2.5	2.5
Any Other (Specify)	365	NGI-NewGen IEDC, Coimbatore	2.5	2.5
Any Other (Specify)	365	NGI-NewGen IEDC, Coimbatore	2.5	2.5
Any Other (Specify)	365	NGI-NewGen IEDC, Coimbatore	2.5	2.5
Any Other (Specify)	365	NGI-NewGen IEDC, Coimbatore	2.5	25
Any Other (Specify)	365	Kerala Startup Mission (Technopark, Technology	1.05	1.05

		Business Incubator), Thiruvananthapuram, Kerala		
Any Other (Specify)	365	A P J Abdul Kalam Technological University	1.25	1.25
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
IoT workshop	Electronics and Communication Engineering	19/11/2019
NeCTAR2020:Virtual conference on Technology Annexing Reality	Department of MCA	28/03/2020
Symposium: Industry ready students	Department of MCA	07/11/2019
Seminar: Data Science and Applications	Department of MCA	07/11/2019
One day National seminar on Blockchain Technology	Computer Science and Engineering	08/08/2019
A National Level Awareness Program for EDC	Electrical and Electronics Engineering	24/02/2020
Webinar on PATENT Document Preparation	Electrical and Electronics Engineering	09/05/2020
Creative Thinking and innovation an insight	Department of MCA	01/10/2019
Technical workshop talk on VLSI, Embedded systems, Robotics Recent Trends in Engineering	Computer Science and Engineering	23/07/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NCERC	Kerala Startup Mission(Technopark, Technology Business Incubator), Thir	DEPARTMENT OF SCIENCE TECHNOLOGY	PROVAE	Black Soldier Fly Larvae based high protein poultry feed production from bio	03/03/2020



	uvananthapuram, Kerala			waste.	
NGI-TBI	NGI-NewGen IEDC	DEPARTMENT OF SCIENCE TECHNOLOGY	PAIRME TECHNOLOGIES	PAIRME TECHNOLOGIES design a futuristic model of Tab that is capable of being converted into an attachment for PCs and laptops enabling user the benefit of dual screen and help them to enhance their productivity.	18/09/2019
NGI-TBI	NGI-NewGen IEDC	DEPARTMENT OF SCIENCE TECHNOLOGY	ORBCRUX	The company mainly concentrates on providing integrated methodologies and solutions for the environmental and tech related constraints and improves the quality of peoples live through meaningful innovation.	18/09/2019
NGI-TBI	NGI-NewGen IEDC	DEPARTMENT OF SCIENCE TECHNOLOGY	FURITECH INNOVATIONS	FURITECH INNOVATIONS is an automated renewable energy generation company which mainly concentrates on bringing upon new and efficient	18/09/2019

				method for renewable energy production without harming the environment.	
NGI-TBI	NGI-NewGen IEDC	DEPARTMENT OF SCIENCE TECHNOLOGY	LEWENHOLK TECHNOLOGIES	LEWENHOLK is a futuristic manufacturer on printed circuit boards. The company concentrated on designing different types printed circuit boards, electronic devices etc.	18/09/2019
NGI-TBI	NGI-NewGen IEDC	DEPARTMENT OF SCIENCE TECHNOLOGY	MEASUREY	MEASUREY mainly concentrates on designing and manufacturing of various equipments used in transmission and distribution of electrical energy.	18/09/2019

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### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
Nil	Nil	Nil

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Nil	Nil

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Department of	3	1

	Electrical and Electronics Engineering		
International	Department of Electrical and Electronics Engineering	14	1.5
International	Department of MCA	2	1
<a href="#">View File</a>			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
DEPARTMENT OF MCA	2
DEPARTMENT OF MECHATRONICS ENGINEERING	1
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	2
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
An automated WPT based EV charging with renewable sources of energy	Rajkumar. G	Indian Journal of Engineering	2019	2	Nehru College of Engineering and Research Centre, Thrissur	2
Air Pollution Controlled Prototype Modelling of Electrostatic Precipitator for Small Scale Industries	P.Sundaramoorthi	International Journal of Environmental Pollution and Environmental Modelling,	2020	0	Nehru College of Engineering and Research Centre, Thrissur	Nil
Power quality mitigation and THD reduction using STATCOM	P.Sundaramoorthi	Test Engg management	2020	1	Nehru College of Engineering and Research Centre, Thrissur	1

for Renewable energy system						
Design and Implementation of Battery Based Dynamic Voltage Restorer for Power Quality Issues in Domestic Grid	P.Sundaramoorthi	Test Engg management	2020	0	Nehru College of Engineering and Research Centre, Thrissur	Nil

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### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
An automated WPT based EV charging with renewable sources of energy	Rajkumar. G	Indian Journal of Engineering	2019	31	2	Nehru College of Engineering and Research Centre, Thrissur

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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	4	Nil	Nil	Nil

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## 3.4 – Extension Activities

### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Anti Drug Campaign	NSS UNIT 209, Excise, Pazhayannur, Thrissur, Kerala	3	25
Blood Donation Camp	NSS UNIT 209, 596, 23 Kerala Battalion NCC, Thrissur,	4	20

	Kerala		
Railway Adoption Program , Lakkidi Railway Station	NSS UNIT 209,596	3	24
International Day against Drug Abuse and Illicit trafficking	NCC UNIT, Nehru College of Engineering Research Centre	3	19
Flood Relief Activity	NSS Unit 209,Nehru College of Engineering Research Centre	3	25
BUS-STAND CLEANING	NSS Unit 209,Nehru College of Engineering Research Centre	3	15
BEAUTIFICATION OF Public Health Cnetre, Thiruvilwamala	NSS Unit 209,Nehru College of Engineering Research Centre	3	14
Poly Garden Visit	NSS Unit 209,Nehru College of Engineering Research Centre	3	33
PAINTING SWABBING OF CHILD CARE CENTRE (ANGANWADI)	NSS Unit 209,Nehru College of Engineering Research Centre	3	18
CONSTRUCTION OF WASTE DISPOSAL PIT	NSS Unit 209,Nehru College of Engineering Research Centre	3	26
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
VIMUKTHI 2019-2020	Letter of Appreciation	Excise Division Office, Thrissur	2035
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat	NCC UNIT,Nehru College of Engineering Research Centre	Plastic free campus	2	65

Swachh Bharat	NCC UNIT,Nehru College of Engineering Research Centre	PLASTIC FREE CAMPUS Phase-2	2	75
Swachh Bharat	NSS Unit 209,Nehru College of Engineering Research Centre	BUS-STAND CLEANING	2	72
Swachh Bharat	NSS Unit 209,Nehru College of Engineering Research Centre	BEAUTIFICATION OF P.H.C	2	67
Gender Issue	NSS Unit 209,Nehru College of Engineering Research Centre	WOMENS DAY AWARENESS PROGRAM	3	44
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### 3.5 – Collaborations

#### 3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
INTERNSHIP	Gopika	Self	9
INTERNSHIP	Jisni Johnson P	Self	9
INTERNSHIP	Johnly K Babu	Self	9
INTERNSHIP	Kavya Kalidas	Self	9
INTERNSHIP	Maya Vinod	Self	9
INTERNSHIP	Nithya P	Self	9
INTERNSHIP	Sneha S	Self	9
INTERNSHIP	Sreedevi C	Self	9
INTERNSHIP	Sreelakshmi A	Self	9
INTERNSHIP	Sulfi A	Self	9
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#### 3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training programme on various aptitude	Aptitude training for students	KONFIDENCE EDUCATION	10/10/2019	10/10/2020	250

tests at NCERC campus for the 2020 pass out students.					
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
KONFIDENCE EDUCATION	10/10/2019	The trainers will conduct training programme on various Aptitude Tests for the 2020 pass out students at the campus of NCERC with its own panel of faculty members and necessary course materials to students.	250

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#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
31.5	25.36

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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##### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	19.11	2018

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total





Total	620	16	2	2	1	3	6	64	0
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

64 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Youtube Channel	<a href="https://www.youtube.com/channel/UCv5ORX2UtCrZUIAn3ieTc8w/videos">https://www.youtube.com/channel/UCv5ORX2UtCrZUIAn3ieTc8w/videos</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
506.5	494.64	31.5	25.36

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

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.

- 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

<https://www.ncerc.ac.in>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	NEHRU VIGNAN SCHOLARSHIP	245	930000
Financial Support from Other Sources			
a) National	EGRANTS SCHOLARSHIP SCHEME BY KERALA STATE SC/ST DEVELOPEMENT BOAED, NSP SCHOLERSHIP SCHEME-MERIT CUM MANAGEMENT SCHEME, AICTE TUITION FEE WAIVER SCHEME FOR LOWER INCOME GROUP	140	2909700
b) International	NA	Nil	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Personal Counselling and Mentoring	04/12/2019	1031	Dr. Mallika Balakrishnan, Consultant Psychiatrist and by all mentors of the institute
Remedial Coaching	01/11/2021	320	Department of Applied Sciences

			and Humanities, Automobile Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Mechatronics Engineering, Master of Co
Bridge Course	15/07/2021	173	Department of Applied Sciences and Humanities, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Mechatronics Engineering
Familiarisation of Linux Operating System Features for freshers( ICT/comput ing skills )	23/10/2019	172	Department of Computer Science and Engineering
Life skills -Physical fitness(gymnasium)	01/08/2019	39	Instructor Mr.Lohidakshan ,contact :9746636045
Life skills -Yoga and Meditation	06/06/2019	85	Department of MBA,NCC Unit
Life skills -Course on Life skill	08/11/2019	202	Department of Humanities,Dr.Jojo George,Contact:7034 630503
Course on Language lab	08/11/2019	169	Department of Humanities,Dr.Jojo George,Contact:7034 630503
Soft Skill Training	05/11/2019	380	Vajra Learning,Ms.Rakhi Vijay Nair,contact: 9567595671

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Nehru Corporate Placements Industry Relations (NCP IR) ,	Nil	380	Nil	87
2019	Competive Exam Coaching	200	Nil	94	Nil

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
22	22	5

**5.2 – Student Progression**

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
TCS, CSS CORP, CTS , WIPRO , GLOW TOUCH, BIBOX, INFOSYS, BYJUS,	115	62	RELIANCE JIO , POORNAM INFOVISION , IBS , ZERONE, SPERIDIAN , MIND TREE , UST GLOBAL ,	45	25

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.Tech	ECE	AMRITA VISHWA VIDYAPEETHAM	M-TECH EBS
2020	1	B.Tech	EEE	GEC.IDUKKI	M TECH POWER ELECTRONICS

					AND CONTROL
2020	1	B.Tech	EEE	GEC , THRISSUR	M TECH POWER ELECTRONICS
2020	1	B.Tech	EEE	NEHRU INSTITUTION OF MANAGEMENT STUDIES	MBA
2020	5	B.Tech	CSE	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE	M TECH CSE
2020	2	B.Tech	CSE	RAJAGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY	M TECH NE
2020	1	B.Tech	CSE	GEC SREEKR ISHNAPURAM	M TECH CSCL
2020	1	B.Tech	CSE	GEC SREEKR ISHNAPURAM	M TECH CSCL
2020	1	B.Tech	ME	GEC THRISSUR	M TECH PRODUCTION ENGINEERING
2020	1	B.Tech	ME	AMRITA VIS HWAVIDYAPEET HOM	MTECH IN M ANUFACTURING ENGG
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	5
Any Other	7
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Arts and Cultural	Institution/District/State	778
Sports	Institution/District/State	645
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	GROUP DANCE	National	Nill	1	NCE18MC010	APARNA KRISHNA
2019	BOXING	National	1	Nill	NCE19MC021	Mohammed Fawas M N
2020	MAPPILAP PATTU	National	Nill	1	NCE18CS031	MAYA M
2020	LIGHT MUSIC	National	Nill	1	NCE18CS031	MAYA M
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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 Chief Superintendent of examinations. The following committees are in existence to decentralize the academic and administrative activities including students as members. Disciplinary and Anti-Ragging Committee , Grievance and Redressal Committee , Entrepreneurship Development cell , Training and Placement Cell, NSS Committee NCC Committee, Mentoring and counseling cell. Women Cell , Internal Compliance Committee, Students Welfare Committee, Technical Association Committee, Sports, Arts and Cultural Committee. All the above committees are functioning under the supervision of Principal and coordinated by team of experienced faculties and student members. 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. As a part of decentralized decision making different suggestions given by the students and faculty members are considered and actions are taken to implement them. This is definitively a positive encouragement for the faculty members and students to decide on a fruitful situation enhancing the leadership qualities. This also paves way for well-defined empowerment strategies. Classroom teaching and laboratory sessions were the only mode by which teaching happened earlier. Now as per the request of the students the faculties are providing E-Learning resources. This gives a chance for students who have missed classes to go home and refer the E-resources and learn. The college has developed a YouTube channel, where subject related videos are uploaded and subject power point presentations are uploaded on Slideshare. Thereby the college has created a huge online database to support the students.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

8335

5.4.3 – Alumni contribution during the year (in Rupees) :

20000

5.4.4 – Meetings/activities organized by Alumni Association :

01

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

As a part of decentralized decision making different suggestions given by the students and faculties are considered and actions are taken to implement them. The management gives a lot of importance and weight-age to students and faculty suggestions. This is definitively a positive encouragement for the faculties and a crucial decision by the management. Decentralization and Delegation of Power The objectives of the practice are as follows: • To facilitate quick decision making related to academic and administrative activities at all levels. • To involve the members of the faculty and administration at different levels to bring in participation responsibilities with accountability and ownership. • To ensure transparency in the administrative activities • To ensure timely follow up actions In order to facilitate the decision-making related to academic and administrative activities faster and to ensure complete transparency, various decentralization strategies have been practiced as noted below. An executive committee consisting of the Managing Trustee, Director (Academics) and the Principal have been constituted to decide on certain policy matters. This committee meets once in a month to review the progress in academic, research, placement etc. Apart from this Executive Committee, the institution has got the following committees are in existence to decentralize the academic and administrative activities o IQAC o Disciplinary and Anti-Ragging Committee o Grievance and Redressal Committee o Examination Committee o Research Cell o Entrepreneurship Development Committee o Training and Placement Committee o NSS Committee o 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. The different committees come out with plans and procedures to solve different problems faced by the institution. The issues are discussed by the different committees and appropriate action is taken to solve the issues. The committees further create an atmosphere to prevent problems from happening by conducting awareness programs. 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. 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.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

### **6.2 – Strategy Development and Deployment**

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	<p>Students are admitted as per the university, UGC and AICTE norms. Preference are given to students with high performance in their previous institutions. Group discussions and interviews are conducted where ever necessary. Preference is given to lower class and socially backward students. Scholarship is given to students with high marks.</p>
Industry Interaction / Collaboration	<p>Industry interaction is given utmost importance in the institution. Student Industry interaction in the form of Industry visit, internship and industry project is practiced. Faculty member industry interaction happens in the form of industry related projects and research. NCERC encourages students and faculty members to visit and do internship at various industries. Collaboration with industry are encouraged and placement cum Industry relationship coordinator is given the responsibility to enhance it.</p>
Human Resource Management	<p>Before commencement of every academic year the faculty and staff requirements are assessed and the vacancies are advertised in leading dailies besides placing the same in the institutions website. Duly constituted selection committees recruit the faculty and staff. The faculty and staff requirements are assessed on the work load as per the AICTE norms.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>College library is fully computerized. Computers are power backed up. The overall infrastructure is arranged well so as to be able to handle by person with disabilities. Big class rooms, separate and sufficient number of toilets, big play grounds, indoor stadiums, modern gymnasium, state of art laboratories, gardens inside the building for beautification, fully computerized administrative office. Security guards are available for 24 Hrs and 365 days in surrounding area. Peaceful and healthy environment is available and it is supportive for education.</p>
Research and Development	<p>Research and development is one of the main pillars of development of our institution. Research cell is created with coordinators from all departments. Regular research papers are published</p>



by the faculty members. Students are also encouraged to publish research papers with the support of teachers. Institution also encourages faculty members to participate in faculty development programs to enhance research. Institution also organizes research programs like FDP and conferences.

Examination and Evaluation

All year round evaluation through class tests, tutorials, student seminars/presentations keeps the students in touch with their subject It also enhances and helps students grow in confidence for university examinations. Results of internal examinations are published online. The students also receive a hard copy of the results which their parents to sign. Parent teacher meetings are conducted for students who have low attendance and those who have not performed well in college. Internal sessional, terminal examinations are conducted by the examination committee.

Teaching and Learning

The back bone of every academic institution is the process of teaching learning. College takes regular measure for enhancement of competency of faculties so as to effective curriculum transaction in the classes. Teaching learning processes are continuously improved according to students feedback which are collected twice every semester which helps every faculty to improve their teaching procedures. We adhere to academic calendar prepared for that particular year and have a lesson plan in hand before commencing new semester. Lesson plans are distributed in the form of printed course files. We also well maintained laboratories giving a very good laboratory experience and minimum two faculty members to assists a batch of 30 students. This helps every student to understand each and every experiment with relation to its practical importance and maintain record in a better way as a student gets individual attention. Workshops, seminars, use of ICT in class rooms contributed to enhancement of teaching learning.

Curriculum Development

Curriculum is set by the university. Academic mentoring of students is done by the teachers.

## 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Yes. icampus software is available. Academic planner with all data of Curriculum, CoCurriculum, Extra curriculum and its Implementation is recorded and Monitored
Administration	Yes. icampus software is available. The administration of office dealing with students, faculty, admissions are fully computerized. The college management always takes lead role in providing better facilities to all its faculties, support staff and students. Establishment of physical facilities enhancement, round the clock water supply through deep boring, clean drinking water facilities and continuous power supply etc are provided. Special initiative to facilitate sports and cultural activities are taken. The college takes active participation in data submission to AISHE portal in a timely manner.
Finance and Accounts	Yes. TALLY is available. The college maintained its accounts and financial audit done regularly. Internal fund flow and out going funds are all in the recorded forms. All the incoming fees from students are collected through bank challan and net banking. All the funds are registered and GST registration done. All the salaries of teaching and non teaching staff are computerized and remittances are online.
Student Admission and Support	Yes. icampus software is available. Admission process is completed on counselling basis. Poor students and merit students are supported financially from the college fund. Academic support provided weak students. The library welcome students for reference and study. In case of any illness, students are visited in hospital by staff and companions.
Examination	Yes. icampus software is available. Internal exams are conducted by exam wing under supervision of head of the institution and the answer papers distributed to students through corresponding teacher. Results are sent to the parents by SMS. End semester examinations being done on offline basis as per university norms and the

results are available in the university website.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	NIL	NIL	NIL	Nil
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Training program on Ethical Hacking	Nil	25/11/2019	26/11/2019	12	Nil
2019	Training program on Python Programming	Nil	26/08/2019	26/08/2019	8	Nil
2019	Nil	Training on Finite Element Analysis using ANSYS	25/07/2019	26/07/2019	Nil	13
2019	Training Program on HVAC in Automobiles	Nil	01/02/2020	01/02/2020	15	Nil
2019	FDP - Student Counselling	Nil	06/01/2020	10/01/2020	4	Nil
2019	Training program on Internet of Things	Nil	16/01/2020	16/01/2020	19	Nil
2019	Digital Marketing	Nil	04/12/2019	04/12/2019	19	Nil
2019	Training in Cryptocurrency	Nil	06/01/2020	06/01/2020	13	Nil
2019	Nil	Training			Nil	12

	on Design of Heat exchangers	23/11/2019	23/11/2019	
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on Artificial Intelligence	2	22/05/2020	26/05/2020	5
Refresher course on 'Electric Hybrid Vehicle'	30	01/02/2020	01/02/2020	1
Workshop - Design of Experiments An Engineering Perspective	1	25/04/2020	27/04/2020	3
FDP - Students Counseling	4	06/01/2020	10/01/2020	5
FDP - Coastal Protective Measures and its Importance in Kerala	2	06/01/2021	10/12/2021	5
FDP - Awareness on Assesment and Accreditation Process	6	04/11/2019	08/11/2019	5
FDP on Learn ARdunio step by step	2	15/05/2020	17/05/2020	3
FDP on IPR Awareness and Patent Prosecution	4	06/05/2020	10/05/2020	5
Refresher course on Data Science with Statistical Methods using R Programming	25	30/09/2019	01/10/2019	2
Refresher course on Robotic Process Automation	24	13/11/2019	13/11/2019	1

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	Nil	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>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, 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.</p>	<p>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.</p>	<p>Group Insurance Scheme</p>

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

In every financial year the college will conduct an internal audit through departmental staff as well as external audit by the statutory auditors. A clear and effective internal audit mechanism is present to make sure the fund is handled in a responsible and accountable manner. Initially a clear and precise budget is made by departments headed by the head of department which is approved by the head of the institution and further sent to the Chairman for approval. Budget meetings are regularly done to make sure the resources are allocated for the right purpose of developing the institution and building up the assets of the institution. It is based on this budget the fund raised is

allocated. The monitoring of internal budget and expenditure is regularly done. In order to have transparent and reliable books of accounts and maintenance of records of all the transactions the management has created an audit system of internal and external auditing which makes sure that the expense are in control and it does not exceed the budgets. These audits also make sure that misuse of college fund does not happen. It also makes sure that the fund is allocated to the right requirements and used for the right activity. 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 by the finance manager. All the entries in the books of accounts are verified and counter checked for any corrections. While verifying entries, if any mistakes/ short comings identified/noticed the same could be rectified in the same month by the concerned departments. After rectifications if any, the report would be submitted by internal auditors to the Governing Body for approval. 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. The external team of chartered accountants will also check and verify the account books. 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. The audit reports are submitted to the affiliated university, academic bodies at state government and central government level on request. The year on year budgets are analyzed and year on year expenditures are monitored while preparing a new budget. A steady increase in assets and reduction in the liabilities is maintained.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NIL
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6.4.3 – Total corpus fund generated

101913038
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	APJ Abdul Kalam Technological University, Kerala , ICS	Yes	IQAC
Administrative	Yes	ICS	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

PTA meetings on regular basis, PTA support in extra curricular activities ,
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Active member in Functional committees of the institution.

6.5.3 – Development programmes for support staff (at least three)

Training Programs , Additional Welfare Schemes , Scholarship for wards

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Applied for NBA , Participated in NIRF, Organized National Conference

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	FDP on Power Quality issues in Power Generation, Transmission and Distribution sponsored by A P J Abdul kalam technological university	06/01/2020	27/01/2020	31/01/2020	30
2020	National Level Awareness Program(NLAP-2020) in association with MSME	06/01/2020	24/02/2020	24/02/2020	60
2020	Webinar on Patent Document Preparation	16/03/2020	09/05/2020	09/05/2020	100
2020	Webinar on Trends in Robotics	16/03/2020	24/05/2020	24/05/2020	60
2019	National Seminar on Introduction to MOBILE ROBOTICS via ROS-1 GAZEBO	12/08/2019	21/08/2019	21/08/2019	60
2019	Training program-	04/11/2019	25/11/2019	26/11/2019	18





	ntages	local community					
Nill	1	1	02/09/2019	2	Clean Nila	Cleaning the River Surroundings	60
Nill	1	1	02/10/2019	1	Clean Pambady initiative	Zero Littering and Clean Surroundings	60
Nill	1	1	13/01/2020	5	IT Literacy	Basic Computer Usage for Health Workers	30
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
NCERC Code of Conduct Policy-Documnt	10/07/2019	Code of Conduct for Teaching, Non- teaching staff., drafted on 4 major pillars Respect Responsibility Fairness Caring
Student Code of Conduct Policy-Documnt	01/08/2019	Student Code of Conduct: A summary and explanation was released by the College, detailing the rights, responsibilities, and rules governing student conduct at Nehru College of Engineering and Research Centre. This Policy Document serves as a general framework and is not intended to provide an exhaustive list of all possible community infractions. Students violating community standards may be held accountable through the student conduct process which addresses issues like • Academic Misconduct • Alcohol and Other Drugs • Assault, Endangerment, or Infliction of Physical Harm • Bullying, Intimidation, and

Stalking • Disorderly  
conduct • Events and  
Parties

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day Online	21/06/2020	21/06/2020	85
Vimukthi- Anti-drug Awareness Program	03/10/2019	03/10/2019	150
Teachers day	05/09/2019	05/09/2019	300
Traffic-Safety Awareness Flash Mob	14/01/2020	15/01/2020	30
Anti-Covid Activities	22/05/2020	23/05/2020	25
Orphanage Visit	20/12/2019	20/12/2019	120
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

**Maintenance of Campus Greenery:** The campus is situated in the banks of Holy River Nila, and is famous for its Green Campus. Any construction or renovation is made without disturbing the natural ecosystem.

**Environment Audit, Energy Audit and Green Audit:** External Certified Agencies conducts the Environment, Energy and Green Audits on an annual basis and all our stakeholders remains responsible to carry out the instructions and recommendations made in the report.

**Organic Farm Land:** Staff Club and NSS Voulunteers remain dedicated in maintaining the Vegitable Cultivation in the Organic Farmland, which also facilitates a Green House for ease of Grow-bag based cultivation.

**Preservation of Natural Water bodies:** The Campus equips THREE Natural Ponds/water bodies, which is well maintained and the water stored is used for Gardening and Cultivation.

**E-Waste management:** The electronic waste is periodically disposed through professional agencies, and is never made to get in contact with land. We have MoUs signed with e-waste agencies to handle the process effectively

**Plastic Free Zones:** We formulate a culture of maintaining Plastic free zones, Oxygen Zones and Fresh Air Zones. Policies on Ban of Plastics, Restricted Usage of Plastics etc.. are live in the Campus Culture. We frequently organised programs/events focusing on these policies.

**Mini Forest:** A portion of land is maintained without much disturbing the natural growth of plants. This mini forest facilitates an adobe for open classes/meetings with a different ambiance.

**Fish Farm:** The ponds are maintained well for Fish farm and is cleanly facilitated for the pisciculture requirements to be met.

#### 7.2 – Best Practices

##### 7.2.1 – Describe at least two institutional best practices

**BEST PRACTICE 1**  
1. Title of the Practice : Playing the role of a Participating Institute for Unnat Bharat Abhiyan  
2. 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, stakeholder interactions and design societal objectives so as to 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 . • To propose new rural development outcomes as a value of research and to devise new modes and processes to stand and absorb its outcomes. • To push our students to foster a new dialogue within the larger community on technology, society and environment, so as to develop a sense of dignity and collective destiny.

3. The Context Presently, 70% of the population in India lives in rural areas engaged in agrarian economy with agriculture and allied sector employing 51% of the total work-force but accounting for only 17% of the country's GDP. There are huge developmental disconnects between the rural and urban sectors such as inequity in health, education, incomes and basic amenities. Meanwhile, our professional higher education institutions have largely been oriented to cater to the mainstream industrial sector and, have hardly contributed directly to the development of the rural sector. Our central Government have thus initiated Unnat Bharat Abhiyan (UBA), a much needed and highly challenging edge in this direction. 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.

4. 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. To guide and monitor the activities of the UBA Cell an Executive Advisory Committee was formulated with Principal and TWO Senior Professors on the board. 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. • Shared our findings along with our suggestions to support/inform Grama Panchayath, State Government, District authorities and Non-Governmental bodies. • Assisted these authorities, for arriving at suitable solutions for improving the social and economic well-being of the Pambady-Thiruvilwamala rural communities. We were facilitated and mentored in all these activities by our respective mentoring institutions appointed by UBA.

5. 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 Household survey: • Completed Problem Identification • Ongoing Gram Panchayat Development Plan:

6. 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**

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

2. 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.

3. 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 team (Nehru School Management) conducted various events to train them through infotainment sessions. After scrutinizing, in the final round, twelve colleges competed for the Title of Best Leader. 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. Students identified all their unique strengths, underlying beliefs and motivations that serve them, at the same time they also could realize all those personal hurdles that limit their effectiveness. Through competing in this event, participants developed a clear understanding of their purpose and vision as a leader.

4. 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. Throughout the Workshop, the student is actively engaged in investigating, experimenting, being curious, holding responsibility, being creative and constructing meaning.

To March into the final rounds, • The participant must be willing to be actively involved in the training • The participant must be able to reflect on the experience gained • The team must possess and use analytical skills to conceptualize solutions • The teammates must possess decision making and problem solving skills in order to use the new ideas gained. Our skilled facilitators, during the entire workshop sessions, helped the students to open a gateway to powerful new thinking and learning and discover their innate leadership skills.

5. 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.

6. Problems Encountered and Resources Required

Problems encountered in organizing Leadership workshop • 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. Resources required for the workshop: • Projector and Laptop • Old news papers and Magazine • Stationary items like Drinking straws, Origami, Building Blocks etc • Chart papers and sketches • Transportation facility for students • Lunch for Guest speakers

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.ncerc.ac.in/downloads/criteria7/BP2/7.2.1NCERC-BPB.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 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, namely Cognitive, Creative, Physical, Social and Emotional. And we design a set of Activities/Projects/Events to be included in each of these pillars. Through participation of these programs, (few listed below) our student community would automatically involve into the Holistic tracks, and mold themselves into True Citizens.. IIC IEDC Karma NAppIER NeCTAR StartUp TBI NSite NCC Bloom Samanwaya Thirike HeliFly NSS PadhamOnnu PKDas Home CSR Nehru Vigyan award The Five-Core-Pillar-Model and the Activity-Execution-Matrix is listed in our College Website  
NCERC HOLISTIC MODEL page

Provide the weblink of the institution

<https://www.ncerc.ac.in/holistic>

### 8.Future Plans of Actions for Next Academic Year

Academic year 2019-20 witnessed an unforeseen break in the curriculum continuity due to the outbreak of Covid19. There was a paradigm shift in teaching phenomena from the conventional pedagogical approaches to online teaching. As a part of expanding pedagogical approaches focused on engaging students in online learning actions are planned for the forthcoming academic year expecting the teaching process to continue in online or hybrid mode. A common platform supported by WebEx is to be arranged for all courses across all departments. The learning resources sharing are to be done efficiently. Icampuz facility to be more efficiently utilized for class planning, attendance capturing, assignment submissions and resource materials sharing. Coaching and Mock tests are to be provided for competitive examinations and GATE coaching in online mode utilizing the campus online platform. Gurukul NGI an online video classes to be rendered

online for benefit of student community at large. In order to foster more interdisciplinary learning opportunities minor courses are to be offered to students in all disciplines as approved by the affiliating university. To enhance Student Success remedial classes are to be offered online. The remedial classes are to be offered for supplementary support. In order to expand Research Initiatives of faculty and students, National level/International level conferences are to be conducted. Also fiscal support for student projects from Research organisations/ management to be attained for promoting student works especially related to Covid19 threat. Webinars are to be conducted by each department with internal and external faculty members. Faculty members shall register and attend online faculty development programs. Accreditation by National agencies in order to ensure quality in higher education is to be done. National Accreditation and Assessment Council SSR submission and visit of the Peer team to be completed in 2020-21. National Board of Accreditation of programs which are eligible is to be initiated and application to be submitted in 20-21. Also to examine the performance level of the institution in the National Level, the institution has decided to participate in the NIRF Ranking Process.